Date: May 23, 2019

Case: Oversight Hearing on Demurrage and Accessorial Charges



Ace-Federal Reporters, Inc. Phone: 202-347-3700

Fax: 202-737-3638

Email: info@acefederal.com Internet: www.acefederal.com

Page 596

SURFACE TRANSPORTATION BOARD

OVERSIGHT HEARING ON DEMURRAGE AND

ACCESSORIAL CHARGES

Thursday, May 23, 2019

9:30 a.m.

Main Hearing Room (Room 101)

U.S. International Trade Commission

500 E. Street, S.W.

Washington, D.C.

| | Page 597 |
|----|---|
| 1 | APPEARANCES |
| 2 | Panel VIII |
| 3 | American Chemistry Council |
| 4 | Jeffrey Sloan, Senior Director, Regulatory |
| 5 | and Technical Affairs |
| 6 | |
| 7 | Diversified CPC International, Inc. |
| 8 | Sandra J. Dearden, Executive Consultant |
| 9 | for Highroad Consulting, Ltd. |
| 10 | Chad Rainey, Plant Manager Petal, MS |
| 11 | |
| 12 | Kansas City Southern Railway Company |
| 13 | Mike Naatz, Executive Vice President and |
| 14 | Chief Marketing Officer |
| 15 | |
| 16 | Panel IX |
| 17 | Barilla America, Inc. |
| 18 | Sandra Dearden, Executive Consultant for |
| 19 | Highroad Consulting, Ltd. |
| 20 | Greg Viers, Durum Wheat and Semolina Purchasing |
| 21 | Manager for U.S. and Canada |
| 22 | |
| | |

```
Page 598
    APPEARANCES (Continued):
2
    Normerica
3
                Dinoja Mariam, Legal Counsel
5
    SA Recycling
6
                Bobby Triesch, Vice President and Regional
    General Manager
8
9
    Panel X
10
    International Warehouse Logistics Association
11
                Steve DeHaan, President and Chief
12
    Executive Officer
13
    International Liquid Terminals Association
15
                Kathryn Clay, Ph.D., President
16
17
    International Association of Refrigerated Warehouses
18
                Lowell Randel, Vice President, Government
19
    and Legal Affairs
20
21
22
```

| | Page 599 |
|----|--|
| 1 | APPEARANCES (Continued): |
| 2 | Panel XI |
| 3 | BNSF Railway Company |
| 4 | Jill K. Mulligan, Vice President and |
| 5 | General Counsel |
| 6 | |
| 7 | Canadian Pacific Railway Company |
| 8 | Pam Arpin, Assistant Vice President - |
| 9 | Customer and Corporate Services |
| 10 | |
| 11 | Canadian National Railway Company |
| 12 | Derek Taylor, Vice President, Southern |
| 13 | Region |
| 14 | Keith Courtoreille, Senior Manager, |
| 15 | Service Delivery |
| 16 | Kathy Gainey, Counsel, United States |
| 17 | Regulatory Affairs |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| | |

| | Page 600 |
|----|--|
| 1 | APPEARANCES(Conintued): |
| 2 | Panel XII |
| 3 | Western Coal Traffic League |
| 4 | Bette Whalen, President |
| 5 | |
| 6 | National Coal Transportation Association |
| 7 | John Ward, Executive Director |
| 8 | |
| 9 | PBF Energy |
| 10 | Kent Avery, Vice President - Commercial |
| 11 | |
| 12 | Freight Rail Customer Alliance, Arizona Electric |
| 13 | Power Cooperative |
| 14 | Emily Regis, Fuel Resource Administrator, |
| 15 | Arizona Electric Power Cooperative and |
| 16 | Vice President, Freight Rail Customer |
| 17 | Alliance |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| | |

Page 601 PROCEEDINGS 2 CHAIRMAN BEGEMAN: Welcome to the Board's 3 second day of our hearing on demurrage and 4 accessorial charges. I would like to thank the first 5 panel of witnesses who agreed to accommodate us late 6 yesterday so that we were able to be as productive 7 and not miss an opportunity to also talk to all the 8 rest of the witnesses and there are about 17 to go 9 for the day. 10 It will be probably, a full day. Looking 11 forward to it. Yesterday was very informative, very 12 interesting, very enlightening and I believe that 13 today will be equally as helpful to the Board. 14 going to just quickly remind witnesses of the -- I 15 guess, the rules if you will, with respect to time. 16 Each witness table is equipped with lights 17 and they will guide you about your allotted time. 18 One minute before your allotted time expires a yellow 19 light will appear. When you see the red light if 20 you could please conclude your remarks as soon 21 thereafter as possible. 22 Again, a video archive will be available

- on the Board's website in the next few days once it's
- 2 available to the Board. And the record will be open
- ³ for 14 days following the close of the hearing for
- any written comments or responses or grievances that
- 5 you wish the Board to consider within the context of
- 6 these issues, June 6th would be the deadline, thank
- you.
- So, unless my colleagues want to say
- 9 anything, we will start with the first panel.
- 10 Jeffrey Sloan from AAC, Kansas City Southern and
- 11 Diversified CPC International. Jeff, if you want to
- 12 go first I appreciate it.
- MR. SLOAN: Good morning, I appreciate the
- opportunity to be here on behalf of the American
- 15 Chemistry Council. Before I begin my remarks, I'd
- like to thank the Board and the staff for the work
- 17 that went into the rate reform task force report.
- Panel VIII I'm very pleased to see that and
- 19 appreciate the Board's commitment to pursuing
- meaningful changes in the Board's rate review
- 21 processes and we look forward to working with you
- 22 going forward on that.

Page 603 The topic of today's hearing is also a 2 source of growing concern for AAC member companies. 3 Our industry is one of the largest customers for the U.S. freight rail system and our transportation needs 5 are growing significantly. More than 200 billion 6 dollars in announced new capital investments are 7 expected to result in about 2 million new chemical 8 and plastic shipments per year, including 300,000 9 additional railcar shipments. 10 It should come as no surprise then that 11 ACC members are very concerned about the major 12 operational changes in today's rail industry, 13 including the litany of recent changes to demurrage, 14 storage and accessorial charges. 15 My comments will focus on some specific 16 problems that have affected a broad range of ACC 17 member companies. And then I'd like to outline some 18 key principles of commercial fairness that I covered 19 in my written testimony. 20 And then conclude with several 21 recommendations for follow-up actions by the Board. 22 The single biggest concern for ACC members

- is the reduction in free time, particularly the
- 2 storage time for ACC members that -- in the majority
- of them -- own or lease their railcar fleet.
- So, I won't go into the details of that
- 5 because I think a lot of that was covered in
- 6 testimony yesterday, but would reiterate that the
- ⁷ effect of service inconsistencies by the railroads
- 8 and bunching of cars really exacerbates the problem
- 9 of the lack of free time.
- 10 And those -- the bunching issues can
- 11 happen for a variety of reasons but essentially none
- of those are the fault of the shipper. AAC
- 13 acknowledges that railroads do offer storage credits
- in some circumstances, but there are limits to the
- 15 effectiveness of those credits.
- 16 First, the delivering railroad does not
- offer storage credits when an upstream railroad in
- the route is responsible for the bunching. I heard
- in UP's testimony yesterday that they will cancel
- 20 charges in those circumstances, so I'm pleased to
- hear that and hope that's the case with other
- 22 railroads as well.

Page 605 But the second concern is that the credits 2 are not always automatic. A shipper must, you know, 3 request the credits and then in the information that 4 the railroads provide, may be insufficient for the 5 shipper to determine if the credits are warranted. 6 And then the window for disputing charges 7 is often narrow and as we heard yesterday, at least 8 in some cases there's an additional handling fee for the privilege of disputing a charge. The zero free 10 time rules eliminate any buffer that shippers have to 11 mitigate the impacts of bunching, and for some 12 members compliance with the new rules requires 13 significant operational changes or building new 14 infrastructure, and for others compliance is simply 15 not feasible, so they're stuck paying the bills, no 16 matter what they do. 17 The second major concern for ACC member 18 companies is the NS congestion charge and again, that 19 was covered extensively in testimony yesterday, but I 20 think the fact that this is, you know, imposed at the 21 sole discretion of the railroad makes it, you know, 22 particularly problematic.

Page 606 Moreover, despite being a per car charge, 2 my understanding is that NS does not appear to 3 identify the cars on which the charge has been 4 assessed, nor do they offer credits when the 5 congestion is due to bunching, and lastly this charge 6 appears to serve much the same purpose as the 7 demurrage and storage charges to which the same 8 traffic is also subject. And then ACC is pleased that Union Pacific 10 recently modified its charges for railcars that are 11 not prepared for service, and this does significantly 12 reduce the negative impact on ACC members. However, 13 there are still some concerns about this charge. 14 The charge is understandable when 15 unprepared cars impose actual costs on UP, such as 16 requiring the railroad to make an unnecessary trip to 17 the shipper's location. That's not always the case 18 at a large facility where the UP is picking up and 19 delivering multiple cars. 20 In such circumstances, it's not impacting 21 UP's service and its more -- at least members see 22 this as -- a revenue source for the railroads. The

- 1 concept of commercial fairness is critically
- important to shippers, particularly those that lack
- 3 access to competitive transportation options.
- Without effective competition, railroads
- 5 can impose rules and charges with little regard to
- 6 the impacts on their own customers. And lacking
- 7 recourse in the marketplace, rail customers have to
- 8 look to the STB to ensure that such practices are in
- ⁹ fact reasonable.
- 10 ACC has developed 6 high-level principles
- that we believe should inform the Board's thinking on
- 12 the reasonableness of these kind of rules and
- charges. Many of these have been addressed in one
- way or another throughout yesterday's testimony, but
- 15 I'll outline them kind of in the way we see them.
- So, first of all there must be a rational
- justification for the rules. The benefits in
- efficiency realized by the railroad are only one side
- of the equation. To be economically rational, newer
- 20 changed practices must produce benefits that outweigh
- the cost that is borne by the customers to comply
- with the practices.

Page 608 1 And also, I would note that while most 2 Class I railroads have adopted their tariff changes 3 as part of the implementation of precision scheduled 4 railroading, it is not clear to ACC members when or 5 if, they will share in the benefits of the new 6 operating models. 7 Second, there must be a direct 8 relationship between the rule and the desired effect 9 on rail operations. Charges should apply only to 10 actions that are within the shipper's control and 11 that actually impair rail operations. And for 12 example, there's no justification for imposing 13 storage charges for delays triggered by bunching whether that's caused by the delivering railroad or 15 an upstream carrier. 16 Third, railroads must allow reasonable 17 time for shippers to take actions that are necessary 18 to comply. And I think it was discussed yesterday, 19 longer time may be necessary for major changes and then regardless of whether a railroad gets 20 or 90 20 21 days' notice, it's unreasonable to impose charges

22

while a facility is acting in good faith to implement

- the changes necessary to accommodate the railroad's
- 2 needs.
- Fourth, there must be transparency in
- 4 implementation. The rules have to be based on clear
- 5 and objective criteria. Changes like the NS
- 6 congestion charge imposed at the railroad's sole
- ⁷ discretion, utterly fail this principle. In
- 8 addition, railroads must provide well-defined
- 9 standards and procedures for disputing charges and
- 10 obtaining credits.
- 11 Fifth, there must be true reciprocity.
- 12 Reciprocity should mean that a railroad may not
- impose charges on shippers for actions that adversely
- 14 affect rail operations unless that railroad also
- 15 compensates its customers for the railroad's actions
- that adversely affect the customer's operations.
- 17 And finally, no double-dipping.
- 18 Railroads should not impose multiple charges that
- 19 serve the same purpose. The NS congestion charge
- 20 again, is a glaring example. In addition, charges
- 21 for railroad services that customers use to comply
- with the storage rules also warrant scrutiny.

Page 610 1 For example, as the elimination of free 2 days forced shippers to move more cars onto storage 3 track, the NS increased its fee for intra-terminal 4 switching by 50%. The fact that a railroad is 5 receiving additional revenue regardless of whether a 6 shipper pays the storage charges or takes the actions 7 to avoid them, raises serious questions as to the 8 railroad's motives underlying the rule changes. ACC proposes three potential Board actions 10 as follow-up to this hearing. First, we ask the 11 Board to develop a policy statement based on the 12 principles that I've outlined and principles that 13 others have outlined during the hearing. And this 14 policy statement would establish standards for 15 evaluating the reasonableness of railroad practices. 16 A policy statement would provide badly 17 needed guidance to both railroads and to shippers, 18 and hopefully help minimize the number of disputes 19 that the Board may have to resolve. 20 Second, ACC asks the Board to initiate a 21 rulemaking proceeding to adopt rules for billing and 22 disputing demurrage and storage charges. The Board

- $^{
 m l}$ has a model for such rules in its principles and
- 2 practices for processing cargo loss and damage
- 3 claims. Analogous rules should establish minimum
- 4 information requirements that enable shippers to
- 5 audit demurrage and storage charges as well as clear
- 6 deadlines for the railroads to respond to disputes.
- And finally, the Board can exercise its
- 8 investigative authority granted in the STB
- 9 Reauthorization Act of 2015 to proactively review and
- determine the lawfulness of problematic tariffs.
- 11 Thank you again for this opportunity and I look
- 12 forward to answering any questions.
- 13 CHAIRMAN BEGEMAN: Thank you Jeff, Sandra?
- MS. DEARDEN: My name is Sandra Dearden
- 15 and I am President and Executive Consultant at
- 16 Highroad Consulting. Prior to starting the firm in
- 17 1996, I was General Manager of Marketing and Sales at
- 18 Chicago Northwestern and I stayed on with Union
- 19 Pacific through the end of the year following at UP's
- acquisition of CNW.
- Highroad has managed transportation for
- 22 Diversified CPC International since 1998. They asked

- 1 me to present testimony in this proceeding on their
- behalf. Diversified is headquartered in Channahon
- Rail Station, Lorenzo, Illinois. It has 6
- 4 manufacturing and distribution facilities in North
- 5 America: at Lorenzo, which is served by BNSF; Sparta,
- 6 New Jersey, served by NYSW; Sebring, Florida, served
- by CSX; Anaheim, California, served by UP; Petal, or
- 8 Dragon, Mississippi, served by Norfolk Southern; and
- 9 a distribution terminal in Ontario.
- In 2017, Diversified established a
- transload operation at Lumberton, Mississippi, also
- served by NS, to support the Dragon plant, managing
- inbound product that is subsequently trucked to
- Dragon with a primary objective to mitigate
- demurrage.
- Dragon has track capacity for 10 cars.
- 17 Lumberton's track capacity is 27 cars. I am
- accompanied by Chad Rainey, who oversees the plants
- 19 at Dragon and Sparta, and the transload operation at
- 20 Lumberton.
- Diversified CPC manufactures propellants
- 22 for aerosols, all commodities shipped and received,

- 1 moved in private tank cars. While Diversified
- initiates some shipments by truck, they are
- dedicated contract carriers and the trucks are
- 4 commodity- and grade-specific to avoid contamination
- of the products.
- In 2017, Diversified entered the
- 7 hydrocarbon refrigerant business, serving the LNG
- 8 market. So, we're in the process of locating a
- 9 terminal in Texas to serve those customers that do
- 10 not have access to rail. The gas will be produced at
- the Lorenzo plant, and shipped to transload.
- 12 Even though Diversified is considered a
- 13 leader in the aerosol propellant industry, it is a
- 14 relatively small shipper. Our largest customer
- 15 receives approximately 225 cars a year. However, for
- every gallon of finished product produced by
- Diversified, we receive an equal amount of raw
- 18 materials inbound for production, thereby doubling
- our volumes.
- Today's testimony will focus on charges
- 21 and changes to the Norfolk Southern tariff. Norfolk
- 22 Southern published a new charge -- the congestion

- charge, of \$100 per car per day to apply on all cars
- destined to a location that, in the sole judgment of
- 3 Norfolk Southern, has an excessive quantity of cars
- 4 that congests in the facilities, resulting in
- 5 operating problems.
- 6 NS may hold these excess cars at various
- 7 locations and assess the charge for cars that exceed
- 8 2 times the average number of cars that the consignee
- 9 received at that location during the previous 2
- 10 weeks. Diversified's plant at Petal has experience
- dealing with congestion in the NS yards.
- 12 Currently, the Birmingham yard, which is a
- major interchange point for shipments to Petal, where
- NS receives Diversified CPC cars at interchange, is
- 15 consistently congested. In 2016, the NS yard at
- Dragon, was extremely congested, resulting in missed
- 17 switches and the interruption of inbound product
- 18 needed for Diversified's operations.
- 19 As a result, NS assessed demurrage charges
- of more than \$65,000. If this rule had been in
- effect at that time, the congestion charges would
- 22 have been in addition to the demurrage charges. NS

Page 615 has not established standards for the definition of a 2 congested facility and without standards, the charge 3 appears to be arbitrary. 4 However, it has been our experience that 5 the congestion at Birmingham and Dragon yards, was 6 not caused by Diversified. Instead, the congestion 7 is, and was, the result of limited capacity of the 8 yard at Dragon and at the interchange at Birmingham. 10 Yard congestion has a negative impact on 11 Diversified's operation and production. The railroad 12 has missed switches of inbound raw materials at 13 Dragon, and the cars have been delayed at 14 Birmingham, and Birmingham continues to be a 15 chokepoint. 16 Yet, there is no consideration of 17 potential reciprocity by NS when assessing these 18 charges, so Diversified and other customers can 19 recover costs for example, for interrupted 20 production, plant shutdowns and potential loss of 21 business. Customers do not have control over NS

22

operations and the charge appears to be

Page 616 1 unreasonable. 2 Finally, because congestion charges are in 3 addition to demurrage charges, it appears the 4 assessment of congestion charges results in double-5 dipping. Effective January 1, 2019, NS reduced its 6 credit days on empty private cars under constructive 7 placement and on loaded private cars with no 8 forwarding instructions from 2 to zero credit days. Concurrently, the credit days on 10 railroad-controlled cars were reduced from 2 to 1, 11 although they increased credit days on loaded 12 railroad cars from 1 to 2 when NS failed to make an 13 ETA. As a result, railroad-controlled cars are allowed one credit day for loading and unloading, 15 while private cars are given zero credit days for 16 loading and unloading. 17 These changes will result in 18 demurrage or storage charges on private cars and the 19 charges being assessed whether the shipper is 20 diligent in its loading and unloading operation. 21 Under this new plan, the 22 storage charge for a private car begins to accrue at

- 1 12:01, after constructive placement of the car and
- ² after NS notifies a shipper, the loaded or empty car
- is ready to deliver to the shipper and continues
- 4 until the shipper directs NS to deliver the car to
- 5 its facility and it is placed.
- 6 NS storage charge for private cars is an
- 7 average assessment. Upon constructive placement,
- 8 each empty car will receive zero credits and each day
- 9 thereafter that the car remains on the track, one
- 10 car-day is assessed until the shipper orders the car
- delivered and it is placed.
- 12 Total credit days for private cars is
- 13 subtracted from total car days for the month, and the
- shipper is charged a storage fee for each net
- 15 car-day. Here, there can be no credits because of
- the zero credit days set forth in the tariff.
- If a private car is constructively placed,
- that means a storage charge will likely be applied.
- 19 For example, if a car is destined to a customer who
- orders the car in at 11:59 p.m., that means the
- railroad will only have one minute to take the cars
- off constructive placement in the system.

Page 618 In other words, this change related to 2 private cars will likely result in situations where a 3 customer cannot possibly avoid storage charges being 4 assessed, no matter how diligent they are. 5 Using this example, absent a reasonable 6 period to accept the cars, the ability to avert the 7 storage fees is lost. We respectfully submit that 8 the changes in the tariff as they relate to private cars are violations of 49 U.S.C. section 10746, which 10 provides "a rail carrier providing transportation 11 subject to the jurisdiction of the board under this 12 part shall compute demurrage charges, and establish 13 rules related to those charges, in a way that fulfills the national needs related to ... freight 15 car use and distribution; and ... maintenance of an 16 adequate supply of freight cars to be available for 17 transportation of property." The zero-credit rule for 18 private cars fails to fulfill either of these 19 national needs. This new policy simply appears to be 20 a revenue generator for NS, and in no way does it 21 satisfy the two national needs for freight cars. 22

Page 619 1 Also, the new policies appear to be one-2 sided in favor of the railroads. In NS's 3 announcement to "Rail business partner and NS tariff 4 subscriber, " they state service window, a designated 5 block of time within a service day that NS 6 anticipates it will physically pull and place 7 customer's cars. These times are not guaranteed, and 9 delivery outside of these projected times will not 10 impact the obligation to pay demurrage and storage 11 charges. It seems that NS does not realize the 12 significance of a need to be committed to customers 13 as business partners. Missed switches and bunching 14 are two examples. As explained previously, missed 15 switches can result in plant shutdowns and bunching. 16 Currently, bunching is perceived as the 17 accumulation of cars arriving at a yard from various 18 origins for loading and unloading from various 19 origins that exceed a customer's capacity for loading 20 and unloading. 21 Frequently, bunching situations are due to 22 service failures and in most cases, railroads will

- waive demurrage or storage fees for cars that have
- already arrived at the destination yard. However,
- 3 they don't give any relief to waive fees for cars
- 4 already in route that subsequently become backed up
- 5 in the yard.
- 6 So, the railroad's bunching practices
- ⁷ should be investigated and potentially found to be
- 8 unreasonable. I would like to apologize to the Board
- 9 for the numerous cites of case law I presented in my
- 10 written testimony. However, case law supports our
- 11 position that the new demurrage and storage rules are
- unreasonable, and I thought it was important to share
- the results of our research.
- We submit the changes in tariffs as they
- 15 relate to private cars constitute an unreasonable
- practice. 49 USC 10702 provides rules and practices
- on matters related to that transportation or
- 18 service. In Section 10702, Congress did not limit
- 19 the Board to a single test or standard for
- determining whether a rule or practice is reasonable.
- Instead, it gave the Board broad
- 22 discretion to conduct case by case fact-specific

- inquiries, to give meaning to those terms which are
- 2 not self-defining in the wide variety of factual
- 3 circumstances encountered. This broad discretion is
- 4 necessary to permit the Board to tailor its analysis
- 5 to the evidence proffered and arguments asserted
- 6 under a particular set of facts.
- 7 The reasonableness standard applies to
- 8 demurrage. The principle underlying demurrage is
- 9 straight-forward. When a shipper holds a car beyond
- 10 a reasonable time, it is taking up a railroad asset
- 11 for which the railroad should be compensated.
- Demurrage charges, therefore, serve two
- 13 purposes -- to compensate the railroad for added cost
- 14)for example, car hire charges it pays to carriers on
- 15 the equipment being held for loss of use of assets)
- and to encourage shippers to return freight cars to
- 17 the system, thereby making the entire system more
- 18 efficient.
- The STB has defined demurrage as a charge
- that both compensates rail carriers for expenses
- incurred when route carriers are detained beyond a
- 22 specific period of time for loading or unloading and

Page 622 serves as a penalty for undue car detention to 2 encourage the efficient use of railcars in the 3 network. Finally, the STB also defined who is 5 subject to demurrage. Any person receiving railcars 6 from a railroad for loading or unloading who detains the cars beyond the period of free time set forth in the governing demurrage tariff may be held liable for demurrage if the carrier has provided that person 10 with actual notice of the demurrage tariff providing 11 for such liability prior to the placement of 12 railcars. 13 Notably, both definitions acknowledge a 14 specific period of time for a rail customer to use 15 the railroad's assets. The question then becomes 16 what is a reasonable period? Certainly, it is more 17 than zero because zero is not a time period. 18 19 Finally, there is no transparency by NS to 20 assess the fairness of any of the charges and 21 singling out private cars for the reduction of credit 22 days to zero seems unfair and discriminatory.

- 1 Demurrage and accessorial charges are a major source
- of revenue to the railroads.
- Revenues for demurrage and accessorial
- 4 charge reported by 4 Class I railroads, totaled 1.2
- 5 billion dollars in 2018. We thank the Board for
- 6 opening this proceeding and allowing time for
- 7 Diversified CPC to submit its comments. This is a
- 8 topic that has a significant impact on rail
- 9 customers, and we encourage the Board to launch a
- 10 full investigation of the rules and charges.
- 11 CHAIRMAN BEGEMAN: Thank you Sandra, Mike?
- MR. NAATZ: Good morning Chairman
- 13 Begeman, Vice Chairman Fuchs, Commissioner Oberman.
- 14 Thank you for affording me the opportunity to speak
- with you this morning. Sorry, I will try that
- again, how's that? Alright, I'll introduce myself,
- my name is Mike Naatz, I'm the Executive Vice
- 18 President and Chief Marketing Officer for Kansas City
- 19 Southern Railroad.
- I've been with the railroad for about 7
- years. In total I have 30 years of transportation
- 22 experience on the buying, selling and operating side

- of the business. Prior to joining Kansas City
- 2 Southern, I served in a number of positions with YRC
- Worldwide, and its predecessor companies for about 18
- 4 years, including a term of President of USF Holland
- 5 and as President and Chief Customer Officer for YRC's
- 6 customer care division.
- 7 In these positions I was responsible for
- 8 both working with customers to meet their needs and
- 9 for working with railroads as a rail customer. I
- 10 also worked for the manufacturing sector as a
- 11 consumer of rail services.
- 12 Having worked on both sides of this
- equation, I can certainly appreciate the many
- 14 perspectives that are being discussed during the
- 15 course of this hearing. Since we have submitted our
- 16 written statement, I do not intend to read that
- 17 statement here. I hope you found our response to be
- 18 forthcoming and valuable.
- I believe it is appropriate to start my
- 20 testimony with the KCS vision statement. Our CEO
- 21 carries our vision and value statement in his jacket
- 22 pocket, and he asks his officers to do the same, and

- 1 I have mine with me today.
- 2 Our vision communicates our desire to
- 3 consistently be the fastest growing, best-performing,
- 4 most customer-focused, transportation provider in
- ⁵ North America. And we realize that a railroad is in
- 6 the business of serving customers, and that providing
- 7 excellent service is what will enable us to grow. In
- 8 fact, we have a very simple mantra: service begets
- 9 growth.
- In my role at KCS, I advocate for the
- 11 customer as well as Kansas City Southern. In doing
- so, I try to look at things through the eyes of our
- 13 customers. While our customers often have unique
- goals and objectives, it's our job at KCS to
- demonstrate value to each of them.
- In the context of this hearing and our
- 17 filing, we acknowledge that KCS recently adopted
- 18 changes that increased our demurrage and accessorial
- 19 fees. These increases followed many, many years
- without taking an increase. We realized that our
- demurrage rates distorted the marketplace and we had
- 22 unintended consequences.

Page 626 Very specifically, our low demurrage fees 2 were creating an incentive for some customers to 3 store cars on KCS versus other alternatives. 4 contrary to our objectives and may actually inhibit 5 the fluidity of our rail operations. 6 As a single main line railroad, it is 7 particularly important to us that we avoid having 8 sidings congested with stored or inactive cars. Cars that are stored in sidings prevent our trains from 10 meeting and passing on our main line. This impairs 11 the fluidity of our network and inhibits service to 12 other customers. 13 Similarly, inactive cars in our yards 14 create operating inefficiencies. Because of this, we 15 believe demurrage and accessorial charges are a 16 legitimate and necessary tool that facilitates 17 service and promotes the efficient use of assets, 18 whether they be railcars, track infrastructure, 19 locomotives or crews. 20 Our use of demurrage is consistent with 21 the STB's EP 707 ruling. In the month of March, 62% 22 of our customers did not incur demurrage and in fact,

Page 627 50% of our demurrage was concentrated in only 8 large 2 customers who have large railcar fleets. 3 In most cases, those customers accept 4 demurrage as an alternative to building capacity or 5 pursuing what they would regard as other less 6 attractive alternatives. Of course, our objective is 7 not to place an undue burden on our shippers. If a situation permits alternatives, such 9 as leasing space where capacity is available to do 10 so, we will work with customers on an alternative to 11 demurrage. We are trying to balance the needs of the 12 railroad and all of the customers we service. 13 cannot put the needs of a few ahead of the needs of 14 many. 15 To maximize value for everyone, railroads 16 and shippers need to work together collaboratively, 17 to ensure we operate efficiently -- it's in the best 18 interest of all parties to do so. Demurrage and 19 accessorial fees represent less than 3% of our 20 revenues, and disputes on a per car basis represent a 21 small fraction of 1%.

22

We prefer to generate revenues through

- 1 growth and line haul volumes. We do not view
- demurrage and accessorial charges as a primary
- revenue stream, nor as a mechanism to produce profit
- 4 and we share the concerns that administering
- 5 exceptions can be difficult.
- In fact, you would prefer not to be in a
- 7 position to have to charge demurrage to begin with,
- 8 but that is not the reality. I would like to share a
- 9 few examples of collaboration and the actions that
- 10 KCS has taken to improve operations. KCS employs a
- team of business process improvement engineers and
- service design professionals, and they work with
- 13 customers, partners, railroads, and internal teams to
- 14 eliminate waste, and find more efficient ways of
- doing business.
- 16 This work has included collaborating with
- our customers and partners to improve transit times,
- 18 eliminate causes of demurrage and improve asset
- 19 utilization. These actions directly benefit our
- 20 customers and the railroad.
- 21 As noted in our filing, KCS has elected to
- 22 waive demurrage charges for customers that committed

- 1 investing those funds in building additional capacity
- 2 at their facilities in order to avoid future
- 3 demurrage activities.
- 4 KCS has also made direct investments on
- other railroads, because we thought it was in the
- 6 best interest of our railroad and our customers to do
- 7 so to speed up the network. We also pay for
- 8 reroutes with other carriers, even when those
- 9 reroutes are not the result of KCS-induced problems.
- 10 At the core of these actions is our desire
- 11 to grow our business, improve service and improve
- 12 asset utilization. And certainly, we realize there
- will be disagreements from time to time. We work
- with our customers to reduce these conflicts and
- 15 strive to be easy to do business with. Why is the
- 16 question? And the answer is simple -- because we
- 17 value our customers and believe that this is in the
- best interest of KCS.
- In 2018, 80% of our customer disputes over
- demurrage and accessorial fees were resolved in the
- customer's favor. We have not embargoed customers
- 22 for failure to pay their demurrage bills. Again, we

- 1 prefer to work collaboratively with our customers
- 2 toward a solution.
- I would like to briefly address our
- 4 implementation of PSR and communicate how we
- believe our approach differs from that of our peers.
- 6 I will begin again with our mantra -- service begets
- 7 growth.
- 8 We are implementing PSR at KCS for better
- 9 railroading and more reliable growth. We have four
- 10 objectives. The first is customer focused -- our
- desires to improve and sustain the consistency and
- 12 reliability of our service. We also wish to create a
- more resilient and dependable network.
- Number two -- we wish to facilitate
- 15 growth. If we're successful with PSR, we will free
- up capacity for new opportunities. Number three --
- we wish to improve asset utilization. This will help
- us meet growing demand with the same number or fewer
- 19 assets. This should also benefit private fleet
- owners. Improved asset utilization allows us to hit
- our fourth objective which is to improve our cost
- 22 profile. We believe that we can successfully

- increase our profitability by driving volume and
- ² revenue growth, while improving productivity and
- 3 asset utilization.
- The information I just shared with you
- 5 comes from a single version of a slide that we use to
- 6 communicate with all constituencies, including
- ⁷ internal employees, our Board of Directors, customers
- 8 and investors alike.
- 9 We will look for additional efficiencies
- 10 as we move forward with our implementation. Our goal
- is to improve service and customer satisfaction, not
- 12 to disrupt it. I would like to close with how I
- opened. Our vision is to be the fastest-growing,
- best-performing, most customer-focused
- 15 transportation provider in North America.
- We realize that our railroad is in the
- business of servicing customers and that providing
- 18 excellent service is what will enable us to grow.
- 19 Service does beget growth. And we will continue to
- work collaboratively with our customers to identify
- 21 and resolve problems.
- 22 And after a slow start, thank you for your

- lattention. I'm happy to answer questions when you
- 2 have them.
- VICE CHAIRMAN FUCHS: I'll kick things off
- 4 and you know, the backdrop to some of these questions
- 5 Mike, is that I think it's clear in the filings and
- 6 what we've heard that it's not -- KCS is not the
- 7 center of where most of the complaints are coming
- from, but nonetheless, you know, there's been a
- 9 number of ideas already this morning and yesterday,
- 10 I've kind of been cataloging them, and I'm just kind
- of wondering what your views are on some of those.
- One of which is the notice before changes
- 13 are made. You know, you have a statute and
- regulation, but you know, what is your view on
- 15 extending the notice time prior to say major changes,
- however defined, take affect?
- MR. NAATZ: Again, trying to put ourselves
- in the seat of the customers.
- 19 VICE CHAIRMAN FUCHS: Right.
- MR. NAATZ: As much notice we can give
- them, the better off everybody will be. In our case,
- when we were making changes, we started communicating

- with our customers about 3 months before we made the
- changes. And then we did permit 23 days after the
- ³ formal change was initiated.
- 4 VICE CHAIRMAN FUCHS: So, in your view a
- 5 minimum of 3 months and is acceptable for -- at least
- a minimum of 3 months for anything that would
- 7 constitute say, a major increase in rates, or a
- 8 reduction in free time or what have you? I should
- 9 say a major increase in fees.
- MR. NAATZ: I think that's going to be
- 11 situational.
- 12 VICE CHAIRMAN FUCHS: Yeah.
- MR. NAATZ: I think my objective is to
- 14 give customers as much time as we possibly can.
- 15 Again, we want to be reasonable. They realize -- we
- 16 certainly realize that they have planning objectives
- 17 and changes that they may need to make, given the
- changes that maybe we are pursuing, so as much time
- 19 as we can give them we would like to afford them, and
- 20 it will be situational.
- VICE CHAIRMAN FUCHS: Deadlines to respond
- 22 -- you know, your customers have a deadline to

- dispute things and I guess I'm wondering does KCS
- 2 have an internal deadline that it imposes on itself
- 3 to respond to customer's disputes?
- 4 MR. NAATZ: Yes, generally speaking as
- 5 soon as possible.
- 6 VICE CHAIRMAN FUCHS: Right.
- 7 MR. NAATZ: The reason for that is very
- 8 simple. It's much easier to resolve a problem when
- 9 its fresh, than it is to resolve if it comes in
- 10 months later.
- VICE CHAIRMAN FUCHS: Right.
- MR. NAATZ: So, you know, our systems and
- 13 tools that are available for our customers, permit
- customers to begin the dispute process even before an
- 15 invoice is generated.
- VICE CHAIRMAN FUCHS: Right, right, and
- 17 that came through and it was appreciated, but I guess
- 18 I'm wondering, you know, is there a situation where -
- 19 and I saw some other folks have like a 15-day
- deadline internally for them to respond. Is there a
- 21 situation where it would be appropriate for, or
- reasonable for, a railroad not to respond to a

Page 635 customer's dispute for more than 15-day? 2 MR. NAATZ: I don't believe so. I mean we 3 would like to respond, again, as quickly as we 4 possibly can. VICE CHAIRMAN FUCHS: And on bunching, did 6 I see correctly in KCS's tariff that bunching is not 7 considered railroad error? MR. NAATZ: That may be the case, yes. VICE CHAIRMAN FUCHS: And so, you know, 10 the hypothetical we were using a lot yesterday was 11 the 5, 5, and 5. You know you have 3 days and 5 cars 12 go out on each of the days and they have different 13 transit times, so just naturally with everybody 14 operating perfectly, you get 15 back at the same 15 time. 16 That customer who's shipping out 5, 5, and 17 5, may have a maximum of 10 spots and so you've got 5 18 that go into constructive placement. If that's that 19 situation where the customer sent it out 20 individually, and they got back more than they can 21 physically take in, would KCS charge them on those 5? 22 Do they not, do you all not give any credits?

| 1 | Page 636 |
|----|---|
| 1 | |
| 2 | MR. NAATZ: We do give credits. The truth |
| 3 | of the matter is we would evaluate that on a case by |
| 4 | case or situational basis |
| 5 | VICE CHAIRMAN FUCHS: So, it's not an |
| 6 | automatic thing when empties come back and outstrip |
| 7 | capacity, the credits aren't automatic? In other |
| 8 | words, that 5 is just hey, listen we know our |
| 9 | customer doesn't have the capacity for these 5, we're |
| 10 | crediting them automatically. |
| 11 | MR. NAATZ: That's correct. |
| 12 | VICE CHAIRMAN FUCHS: And why isn't it |
| 13 | automatic? |
| 14 | MR. NAATZ: We have rules in the system |
| 15 | that are designed to simply create efficiency. |
| 16 | VICE CHAIRMAN FUCHS: Yeah. |
| 17 | MR. NAATZ: And could we improve the rules |
| 18 | technologically that may result in changes? |
| 19 | VICE CHAIRMAN FUCHS: Right. |
| 20 | MR. NAATZ: I think the answer is yes, but |
| 21 | I think there's so many different circumstances that |
| 22 | apply, each of those need to be evaluated, so we |

Page 637 might be able to make improvements. 2 VICE CHAIRMAN FUCHS: Right. 3 MR. NAATZ: Certainly, always opportunity for that, but I think it would be difficult to try to 5 define each and every circumstance under which we 6 might consider waiving them. 7 VICE CHAIRMAN FUCHS: And is the problem 8 because -- defining the customer space or is the 9 problem defining exactly how many empties came back? 10 Because it struck me those are the two datapoints 11 you would need, so help me understand what the 12 problem is. 13 MR. NAATZ: Well, I actually believe it's 14 more complicated than that. 15 VICE CHAIRMAN FUCHS: Okay. 16 MR. NAATZ: So, 80% of what we're handling 17 in U.S. is usually interchanged. 18 VICE CHAIRMAN FUCHS: Yeah. 19 Through another carrier. MR. NAATZ: 20 VICE CHAIRMAN FUCHS: Right. 21 MR. NAATZ: We might be dealing with our 22 own railroad, another railroad, we might be dealing

- with a third party logistics company. We certainly
- ² are dealing with the shipper. We might be dealing
- 3 with the receiver. There are reasons in each of
- 4 those categories why bunching may occur.
- 5 VICE CHAIRMAN FUCHS: Right.
- 6 MR. NAATZ: And there maybe some
- 7 proportionate impact that each of those entities
- 8 have.
- 9 VICE CHAIRMAN FUCHS: Right.
- MR. NAATZ: And so, I think it's
- difficult to program that. I think there's some
- 12 judgment involved.
- VICE CHAIRMAN FUCHS: I see, so what I'm
- 14 hearing from you is not that you all couldn't figure
- out, hey these are 5 and our customer has 10, is the
- 16 problem that you are saying okay, but if we give
- 17 credit for those 5, that assumes that we're at fault
- when it might be someone we're interchanging with is
- 19 at fault and that's why we don't want to give the
- 20 credits, is that kind of an accurate?
- MR. NAATZ: Yeah, absolutely.
- VICE CHAIRMAN FUCHS: That is -- you said

- 1 -- and the technological problem is figuring out
- who, you know, but I guess -- alright, so then
- 3 playing this scenario out. If you were
- 4 interchanging with another carrier, you would know
- 5 how many empties they gave you, so wouldn't you just
- 6 say, okay, they've given us 15 at one time, so
- 7 therefore they've already started the bunch and
- 8 that's going to outstrip this person's capacity and
- 9 so you couldn't assign fault to that at that moment
- 10 and why is that?
- MR. NAATZ: Because there's usually some
- other upstream or downstream activity.
- VICE CHAIRMAN FUCHS: Or there's something
- 14 you could do to break-up the bunch or something like
- 15 that?
- MR. NAATZ: Absolutely, and of course,
- 17 yes, I mean if we can take other actions to eliminate
- 18 the pain that different organizations are going to
- 19 feel, we would try to do that as well.
- VICE CHAIRMAN FUCHS: But it's kind of
- this unusual scenario where on one hand it sounds
- 22 like a complicated scenario and difficult. On the

- other hand, the results of the complication of the
- interline move is that the carrier just gets no
- 3 credit, or excuse me, the receiver gets no credit.
- And so, I guess you know, is it your view
- 5 that it would be good for the customer to get those
- 6 credits if only we could figure out this assignment
- of fault between us carriers?
- MR. NAATZ: Yeah, I'd go back to the
- 9 magnitude of the problem and I think that's going to
- 10 vary.
- VICE CHAIRMAN FUCHS: Yeah.
- MR. NAATZ: Depending on the railroad, the
- 13 customer, a number of circumstances. You know, for
- us, given some of the information I've shared with
- you, I don't view that this is a particularly
- 16 significant problem for us and for the customers that
- we work with, and I'm really not in a great position
- 18 to speak to, you know, the customer or the railroad
- 19 situation.
- 20 VICE CHAIRMAN FUCHS: Sure. There's
- something I want to explore, I have more questions,
- 22 but I want to make sure.

Page 641 COMMISSIONER OBERMAN: So, I'm going to 2 start with you Mike, but I have some for the others 3 By the way, my perception is consistent with 4 Patrick's if we just look at what we've heard from 5 the world of shippers and receivers. KCS doesn't 6 seem to stand out as a target, but I'd like to get on 7 the record some of the issues that I dealt with 8 yesterday from KCS. So, as I see it, I mean obviously all the 10 demurrage rates are not identical, but one of your 11 standard rates is \$130 from your submission. Do you 12 break down how much of that 130 is compensation and 13 how much is penalty? 14 MR. NAATZ: Yes, it's primarily an 15 evaluation to understand what the rate should be and 16 the preponderance over our rate is associated with 17 costs and opportunity costs. 18 COMMISSIONER OBERMAN: And did you do that 19 before you set the rate? 20 MR. NAATZ: Yes, we did. 21 COMMISSIONER OBERMAN: I'm going to guess, 22 based on what I heard yesterday, you don't want to

Page 642 say what that break down is in public? 2 MR. NAATZ: I would rather not. 3 COMMISSIONER OBERMAN: Alright, but you'll 4 provide that to us under some protective order if we 5 ask for it? 6 MR. NAATZ: Certainly. 7 COMMISSIONER OBERMAN: And has that always 8 been the case with your demurrage rates that you 9 internally calculate some amount for compensation and 10 some for penalty? 11 MR. NAATZ: Yes, its' primarily cost-12 based, but yes. 13 COMMISSIONER OBERMAN: So, one of the 14 things that you talked about that the other railroads 15 did not talk about which I found interesting in the 16 context of this whole policy question about the 17 purpose of demurrage, you talk about half of your 18 demurrage is 5 customers, 8 customers who just have 19 large fleets. 20 And in your written statement -- and I 21 think you alluded to it this morning -- you said that 22 some of these customers simply choose to leave their

Page 643 cars on your tracks as a way of doing business and 2 pay the demurrage? 3 MR. NAATZ: Correct. COMMISSIONER OBERMAN: But you also said 5 that you have been able to arrange for lease 6 agreements with some customers so that they do the 7 same thing, but they do it under a lease rather than 8 just paying the demurrage charges? MR. NAATZ: Correct. 10 11 COMMISSIONER OBERMAN: So, what's the 12 difference? Why -- are the lease rates higher than 13 demurrage charges, why would any customer who feels that their business model is to use your tracks for 15 storage, why wouldn't they just enter a lease rather 16 than suffer the demurrage? 17 MR. NAATZ: Well, again it's situational. 18 There are areas in our network where we have more 19 capacity and there are areas on our network where we 20 have less capacity. If we have a capacity that is 21 available and we believe that it would be in our 22 customer's best interest, we would go ahead and enter

- 1 into a lease arrangement with those customers and
- they would consume that under-utilized capacity we
- have, and they would be able to do that at usually a
- 4 lesser rate than demurrage.
- 5 The idea being that we would rather get
- 6 those cars out of the way so that they don't impair
- our operations. We also don't want to have to deal
- 8 with the ongoing burden of calculating demurrage on
- 9 cars. So, to the extent that we could move them off,
- 10 it's a win/win relationship for our customers and for
- 11 the company.
- 12 COMMISSIONER OBERMAN: Well that makes
- sense, I'm wondering about the customers who are
- using the storage regularly, you allude to it, and
- 15 aren't getting a lease. Why aren't they getting, why
- 16 aren't they leasing that space?
- MR. NAATZ: Well, they're not leasing it
- 18 because we don't have additional capacity or
- 19 available capacity in their areas with which to
- lease. In this particular example, we are actually
- building a storage and transit facility that some of
- 22 these customers will use in the future once that

- 1 facility is done, and that will lighten the burden
- from a demurrage perspective for those customers.
- 3 COMMISSIONER OBERMAN: Well, the reason it
- 4 sort of caught my attention is you seem to be
- 5 comfortable, and I'm not being critical of this, I'm
- 6 just trying to understand the business from both your
- ⁷ side and the shippers. You seem to be comfortable
- 8 with those customers who choose to accept the
- 9 demurrage charge and just regularly leave their cars
- 10 on your tracks, at least the tone of your statement
- is yes, this happens and we're fine with it. If the
- 12 purpose of demurrage is to incentivize people not to
- do that, and I'm not urging you to raise the fees,
- but it seems to me it's not really part of a
- demurrage plan because they're not incentivizing
- them to leave the track.
- 17 You're saying it's fine, I mean leave the
- 18 cars on the track. It doesn't make sense to me from
- 19 that point of view.
- MR. NAATZ: So, I certainly appreciate
- what you're asking. I guess I look at it a little
- 22 bit differently. We have ongoing dialogues with our

- 1 customers including the ones that are choosing to use
- demurrage in this case.
- In some situations, they're evaluating
- their alternatives. Maybe they're going to reduce
- 5 their fleet size. Maybe they're going to build their
- 6 own facility. In some cases we have agreed that
- 7 we're going to build the facility and that they will
- 8 enter into an agreement with us.
- 9 I don't believe that if we're all working
- 10 together collaboratively to find a solution, I don't
- 11 know that I want to penalize them through a --
- 12 COMMISSIONER OBERMAN: So, you're saying
- these situations are not really permanent, they're
- more interim?
- MR. NAATZ: Correct, they're interim,
- 16 exactly. We're working towards a longer-term
- 17 solution that will benefit everybody.
- COMMISSONER OBERMAN: Well that makes more
- 19 sense, but it didn't come out that way in the
- 20 statement. I mean you didn't elaborate on it, so I
- was sort of curious about that. I wanted to ask a
- 22 couple questions about the collection process or the

Page 647 1 dispute process. 2 Did you say 8% or 80% in the --3 MR. NAATZ: 8-0, 80%. COMMISSIONER OBERMAN: Are resolved in the 5 customer's favor. So, I'm sort of curious about 6 that. Does that mean you just gave in or that your 7 bills were inaccurate? MR. NAATZ: No, I anticipated that you 9 might ask this question. Debated whether or not to 10 put that statement in. Again, I'll come back to the 11 other piece of information that indicated that far 12 less than 1% of our car totals actually end up in 13 demurrage. 14 When we're looking at a situation we're 15 not necessarily admitting that KCS is the reason why 16 something has happened and we're granting the 17 customer's request to waive demurrage. That 18 certainly will be the case from time to time, but 19 there are other circumstances that we take into 20 consideration and sometimes it just boils down to 21 customer accommodation. 22 We're trying to look at the big picture of

- what we're trying to accomplish with our company and
- our customer's best interest, so that's probably why
- you see those numbers the way they are.
- 4 COMMISSIONER OBERMAN: Well, it's vastly
- 5 different from anything we've heard from any other
- 6 railroad so far, so you're saying it's a more
- 7 customer friendly approach as distinguished from who
- 8 was right or who was wrong?
- 9 MR. NAATZ: Exactly.
- 10 COMMISSIONER OBERMAN: So, let me ask you
- what your process is because, I think one of the
- things we're trying to figure out is what's a
- reasonable, feasible process throughout the industry.
- 14 Before you send a demurrage invoice, how much
- 15 internal sort of due diligence or investigation or
- 16 establishing a prima facie basis for sending the
- invoice do you do?
- So, I got the impression yesterday that in
- 19 some railroads, it's if the time is wrong on the
- 20 clock, an invoice is automatically sent out by the
- computer and there's not much thought given to it
- 22 until the customer decides to investigate and

Page 649 How does that compare to how you do it? 2 MR. NAATZ: Again, it's somewhat of a 3 complex answer, so we, at the core of what we do, our 4 field operators will be -- when they're spotting cars 5 or when they're pulling cars out of industry, 6 they're basically creating a system transaction that 7 has a date and a time of what's happened, and they're 8 applying a status to that information. By and large, that is the rule that we 10 operate by. Again, it's a system process. 11 COMMISSIONER OBERMAN: So, you're saying 12 you have field observers, it's not a computer 13 churning out the bill? 14 MR. NAATZ: Well the computer will turn 15 out the bill or the invoice based upon inputs that 16 are happening by field operators. 17 COMMISSIONER OBERMAN: But based on actual 18 observation, you mean? 19 MR. NAATZ: It's an observation right now.

20

21

22

I will tell you that those operators are not always

aware of some of the upstream, downstream, or other

activities that are going around, so there will be

- 1 times when the information they put in or a status,
- very specifically, that they apply may be
- inappropriate to that situation.
- 4 That's regrettable, that's why we
- 5 acknowledge that there are challenges in the billing
- 6 process.
- 7 COMMISSIONER OBERMAN: It sounds like
- 8 given the way KCS operates with so much of your
- ⁹ traffic being interchange traffic, that on a relative
- 10 basis to the other Class I's, you have more upstream
- and downstream variables, I suppose, that affect this
- 12 than some of the other cross country railroads, is
- that a fair statement?
- MR. NAATZ: I don't know if it's a fair
- 15 statement or not. I can only speak to what our
- environment is, and you know, it's fairly complex.
- 17 There's a lot of moving pieces which is why we try
- 18 to be flexible and collaborative in our approach.
- 19 COMMISSIONER OBERMAN: One final question
- on this point and then I'll hand it over. Do you
- 21 charge your customers for the privilege of getting a
- 22 refund?

| | Page 651 |
|----|--|
| 1 | MR. NAATZ: No, no, we do not. |
| 2 | COMMISSIONER OBERMAN: Good, thank you. |
| 3 | CHAIRMAN BEGEMAN: I'll echo that good. |
| 4 | MR. NAATZ: Thank you. |
| 5 | CHAIRMAN BEGEMAN: Jeff, could we talk |
| 6 | about the zero free time issue for a bit? And I know |
| 7 | this may be a little bit difficult since you're not |
| 8 | actually the shipper, so I understand that, but I'm |
| 9 | curious to know if your members could take a |
| 10 | reduction in free time just not to zero? Do you |
| 11 | MR. SLOAN: I think that's going to depend |
| 12 | on the individual customer, but certainly zero is |
| 13 | kind of across the board unreasonable for |
| 14 | unworkable for them. You know, you're having some |
| 15 | buffer zone to accommodate the variability in the |
| 16 | service and the bunching that will inevitably occur. |
| 17 | Having some time to accommodate that is necessary. |
| 18 | Exactly, you know, if it's 24 or 48 hours, I can't |
| 19 | speak and I'm sure my members would probably give |
| 20 | different answers. |
| 21 | CHAIRMAN BEGEMAN: And one of the latter |
| 22 | panels yesterday seemed to have some differing |

- opinions too. Some thought 24 was certainly better
- than zero. And Sandra, if you want to chime in as
- well, you know one of the comments throughout a
- 4 number of folks' testimony, not -- we haven't
- 5 necessarily heard from all of them yet, but is the
- 6 idea that if someone delivers at 12:59, we have one
- minute before we're charged. To your knowledge, has
- 8 that happened?
- 9 MS. DEARDEN: I'm sure it has. It's not -
- 10 it depends on when the cars arrive.
- 11 CHAIRMAN BEGEMAN: It's sort of the clock
- is the clock, so even when you had more time.
- MS. DEARDEN: Right.
- 14 CHAIRMAN BEGEMAN: You had a lot less time
- 15 when it -- before a charge would accrue if it would
- be delivered that late?
- MS. DEARDEN: One of the issues with this
- is if the customer is a 5-day-a-week operation, the
- 19 plant manager is -- has to monitor those inbound cars
- over the weekend and he's staying up until midnight
- to see if he has to order cars in to take them off
- 22 constructive placement.

Page 653 So, from that standpoint, it's a major 2 issue. 3 CHAIRMAN BEGEMAN: And Mike, I wanted to 4 ask you, one of the comments that Jeff made -- I'll 5 see if I can find it quick enough. I think it was 6 the concept of -- just bear with me for a second --7 that the shipper shouldn't be charged if they can't -8 - if they're not responsible for the action, I mean do you agree with that, or the customer? 10 MR. NAATZ: I'm shaking my head, yes, 11 again I think it's going to be a situational -- we 12 would review each case and we'd make the decision 13 accordingly. If it's not something that the customer 14 has direct control over, or has not been able to 15 influence things, we'll have that discussion with 16 them when we'll act accordingly. 17 CHAIRMAN BEGEMAN: And just so I have it 18 correct, it was that the charges should apply onto to 19 actions that are within a shipper's control and that 20 actually impair rail operations, so I didn't want to 21 be unfair to you by not giving the exact comment. 22 MR. NAATZ: Sure.

Page 654 1 CHAIRMAN BEGEMAN: One of the things I've 2 also asked yesterday's rail folks was whether or not 3 you would be willing to participate in Board 4 sponsored arbitration if requested by one of your 5 customers? 6 MR. NAATZ: We would certainly consider 7 My objective again would be to avoid having 8 those situations where we have to go to arbitration. CHAIRMAN BEGEMAN: Great. 10 VICE CHAIRMAN FUCHS: And just to pick up 11 where the Chairman left off. So, you believe that 12 when a shipper is not at fault, they shouldn't pay 13 demurrage and I guess I'm wondering, you know, to 14 Jeff's point, should the onus be on the railroad to 15 show that it was the shipper's fault in that 16 adjudication? 17 What I mean to say is who should have the 18 burden of proof? 19 I'm not prepared to answer MR. NAATZ: 20 that question. I'll defer that one to the attorneys. 21 I would just I guess answer it by saying these are 22 often very complex --

Page 655 VICE CHAIRMAN FUCHS: Right. 2 MR. NAATZ: -- decisions. Not always, but 3 very often there's a lot of moving pieces that need 4 to be --5 So, say in this VICE CHAIRMAN FUCHS: 6 switch, and we heard a lot about first mile/last 7 mile. In the event of a missed switch that causes 8 some sort of difficulty then with kind of loading and 9 unloading, in subsequent days. When a railroad 10 misses a switch, should the credits or however 11 they're trying to alleviate demurrage charges, should 12 that be something that's automatic and not have to 13 be requested by the customer? 14 MR. NAATZ: Again, I come back to I 15 believe it's going to be situational. 16 VICE CHAIRMAN FUCHS: Why, would it not be 17 automatic? I guess I just don't -- what's the 18 argument against or why it would be situational? 19 There could be multiple MR. NAATZ: 20 contributing factors to why that switch was missed. 21 And I just would want to make sure that those things 22 are evaluated before making a decision.

Page 656 1 VICE CHAIRMAN FUCHS: Keep on talking me 2 through that, so multiple factors, so what's a factor 3 that would result in a missed switch that would be 4 something that the shipper could control? 5 MR. NAATZ: Well, if the shipper has not 6 maintained their track, or if they have other cars in 7 the way. VICE CHAIRMAN FUCHS: I see. MR. NAATZ: Or whatever the situation may 10 I do believe that there are circumstances --11 again, it's situational -- where the customer or the 12 shipper might have a responsibility, and there will 13 be situations where we certainly, as the railroad, 14 have responsibility. 15 VICE CHAIRMAN FUCHS: I see, and Sandra, 16 you mentioned this private car versus system car, 17 again something we hit on yesterday, but you know, 18 this phenomenon where you know, we're seeing more and 19 more folks go to, you know, leasing or owning their 20 own private cars, and away from system cars. 21 And you know, some of the recent 22 developments are that -- and to confirm in your

Page 657 1 testimony that private cars actually have a more 2 difficult demurrage regime both from a free time 3 standpoint, in some instances, and from a charge 4 level standpoint. Is that accurate? MS. DEARDEN: Yes. 6 VICE CHAIRMAN FUCHS: But, that's not the 7 case for you all, right Mike? That the private cars 8 and system cars -- if anything, I think I saw 9 correctly that in some instances private cars 10 actually might have a little bit more, I think they 11 have a lower charge level or some aspect, but private 12 cars are not disadvantaged from a demurrage 13 standpoint relative to system cars, is that 14 accurate? 15 MR. NAATZ: That's correct, we treat them 16 the same. 17 VICE CHAIRMAN FUCHS: And maybe this is a 18 question for railroads that treat them differently, 19 particularly on the private car side, in terms of 20 them being disadvantaged, but can someone give me the 21 argument for why private cars ought to have a more 22 difficult regime than system cars even though the

Page 658 1 owner is, you know, the owner or lessor has chosen to 2 take on that asset for themselves in some form? 3 MR. NAATZ: I would agree with your 4 earlier statement which is you probably should ask 5 the railroads that are differentiating. 6 VICE CHAIRMAN FUCHS: Okay, I mean, can 7 anyone offer -- Jeff, or Sandra, have you spoken with 8 railroad folks? What is the, you know, help me out, is there -- what's the argument that's given for 10 that differentiation, you know, and to help us, kind 11 of, then preview for future questions? 12 MS. DEARDEN: Relative to private cars 13 versus --14 VICE CHAIRMAN FUCHS: Yeah, why are 15 private cars -- why do they have a tougher demurrage 16 regime than system cars? What's the reason a 17 railroad might offer you if you asked them? 18 Well, first of all it makes MS. DEARDEN: 19 no common sense because the railroads, on the 20 railroad cars, especially if they're foreign cars, 21 they're paying per diem to the foreign carrier. 22 VICE CHAIRMAN FUCHS: Right.

- MS. DEARDEN: So, that's an added cost.
- 2 And also, if they want to turn their assets, then
- 3 they should be focusing on railroad cars. Instead,
- 4 they're penalizing the customers who lease cars
- because the railroads don't want to purchase those
- 6 cars.
- 7 VICE CHAIRMAN FUCHS: Right.
- MS. DEARDEN: And, so they have a
- 9 commitment to that railroad and like incurring those
- 10 costs to lease the cars. And, by the way, it's been
- my experience that if a railroad establishes rates
- 12 for system cars --
- VICE CHAIRMAN FUCHS: Right.
- MS. DEARDEN: And for private cars, and
- 15 you look at the cost differential, the customer does
- 16 not get adequately compensated for purchasing those
- 17 cars.
- 18 VICE CHAIRMAN FUCHS: Right.
- MS. DEARDEN: So, because of that, you
- 20 know, they should be equal with or if there is going
- to be a differential, then I would think that leased
- 22 cars would have a lower cost and more credit days

- 1 than system cars.
- VICE CHAIRMAN FUCHS: Right, right, and
- you know, we've been talking a lot about a
- 4 compensatory effect and an incentive or penalty
- 5 effect depending on your terminology and you know,
- 6 why that is you know, particularly for a 24-hour
- 7 difference. Why is it that private cars need a
- 8 greater incentive or impose something greater when it
- 9 comes to the compensatory side, you know, that
- 10 justify that type of thing, it just needs to be
- explained to me and I haven't heard that yet.
- 12 And it sounds like my from a KCS
- perspective, Mike, you didn't feel that private cars
- 14 need some sort of greater compensation or
- 15 penalty/incentive from a railroad perspective?
- MR. NAATZ: Correct.
- 17 CHAIRMAN BEGEMAN: Just quickly, both Jeff
- and Sandra, or let me start with Jeff. Jeff, you had
- ommented in your testimony and to us you recognized
- that UP has made an adjustment to its
- 21 not-ready-for-service charge and you were
- 22 appreciative of that, your members are. And I'm

Page 661 curious and I don't want to give any type of 2 impression that there's only one fix that needs to be 3 changed and everyone's going to be happy. 4 Clearly, there are a whole lot of issues 5 that we've been talking about the last day and really 6 before that last day, but if any, you know, if you 7 have a magic wand, if the railroads would change 8 what, is it --MR. SLOAN: The extension of free time 10 would be the number one. 11 CHAIRMAN BEGEMAN: Okay. That's what I 12 thought you would say, I was just curious, and 13 Sandra? 14 MS. DEARDEN: No double-dipping. 15 CHAIRMAN BEGEMAN: Alright, thank you. 16 VICE CHAIRMAN FUCHS: I'm going to ask a 17 somewhat unfair question to Mike. You might say, 18 among others, so you all obviously have decided you 19 know, for when you're evaluating, how to improve 20 efficiency on your network, not to go to zero free 21 time. 22 Is zero free time unreasonable?

Page 662 MR. NAATZ: We didn't believe that zero 2 free time was in the best interest of our customers. 3 VICE CHAIRMAN FUCHS: And talk me through 4 that, when you were making that decision, are your 5 customer's best interest, how did you come to that 6 conclusion? How did you evaluate your customer's 7 best interests? MR. NAATZ: We talked about it extensively 9 as a team, soliciting feedback from our customers and 10 understanding what their operational requirements are 11 and what our operational requirements are, and we 12 tried to find something that we thought was workable 13 for both parties. 14 I appreciate it. VICE CHAIRMAN FUCHS: 15 COMMISSIONER OBERMAN: Actually that was 16 exactly the sort of a follow-up question to what 17 Patrick just asked, but I want to direct it to Sandra 18 and it's a legal question, here as a lawyer, but 19 since your operations in Illinois, I figure you're 20 all wise, so I'm going to ask you to elaborate on 21 this. 22 And I sort of had some of the same

- 1 reaction as I was reading the case law. You seem to
- be saying -- I think others may have alluded to it,
- but not in their testimony, that the way the cases
- 4 have been written, and you cite some of these, in
- 5 defining demurrage as a charge after free time, aside
- from the question of whether zero is reasonable, that
- ⁷ by definition there has to be some free time or you
- 8 couldn't have the definition, is that your position,
- 9 as a matter of law it can't be zero, whether it's
- 10 reasonable or not.
- MS. DEARDEN: Correct.
- 12 COMMISSIONER OBERMAN: That's the way I
- 13 read your testimony, it's also the way -- the cases
- don't say it, by inference, is the way I read it, but
- 15 it seems logical. Jeff, I wanted to direct you to
- the broader question. You were here yesterday, and
- you heard a lot of this discussion and I'm still
- 18 trying to come to grips with the broad statistics
- 19 that are provided to us by the railroads, about all
- of the improvements and metrics from PSR.
- 21 And all these numbers, velocity, dwell,
- 22 and so forth and so on, and yet the room is filled

- with shippers and receivers who say that PSR has made
- their life worse. And, when we've focused on this
- yesterday, it seemed to be a matter of first mile and
- 4 last mile was responsible for the reasons that
- 5 shippers aren't feeling the benefits and railroads
- 6 yet are seeing the metrics.
- 7 I wonder if you could -- the ACC, you
- 8 know, gathers a lot of data, and I wondered if your
- 9 organization has had an opportunity to evaluate and
- 10 make consistent, because I assume the metrics are
- accurate, the numbers that were being given.
- So, could you shed some light on where the
- problem is? Is it first mile/last mile? And could
- 14 you explain it if that's the way you look at it?
- MR. SLOAN: I don't have hard numbers on
- the first mile/last mile issue, but that is clearly
- 17 at the top of minds of our member companies and they
- have consistently when we ask them you know, is
- 19 service better than before PSR was started, they say
- 20 no.
- You know, at best it's back to you know,
- where there were problems with implementation, at

- best, those problems have been resolved and they're
- 2 sort of back to where we were as far as the service
- that members are seeing at their facilities.
- So, you know, I guess you know, I struggle
- 5 with that discrepancy too, between the metrics that
- 6 are improving that the railroads are reporting. I
- 7 think it may be you know, those are metrics based on
- 8 the perspective of the railroad, you know, and what
- 9 they are looking at from their performance and not
- 10 necessarily a true measure of customer service.
- 11 COMMISSIONER OBERMAN: And are you hearing
- beyond the members who actually have been here, like
- 13 Olin and so forth, at this hearing, are you hearing
- 14 reports, even anecdotal reports from other members
- that when they have this first mile/last mile service
- 16 problem, that part of the reason is that PSR has
- 17 resulted in fewer human beings in the yard to make
- switches, or fewer locomotives?
- 19 MR. SLOAN: There is frustration that
- there are fewer people providing service in some
- cases and fewer people to talk to when there's a
- 22 problem.

Page 666 Sandra, you are COMMISSIONER OBERMAN: 2 nodding, you're getting this? 3 MS. DEARDEN: Yeah, there's -- it's a combination of factors. First of all, PSR obviously, 5 in order to get their operating ratio down they cut 6 personnel and stored locomotives. However, it goes 7 back further than PSR. When the economy took a 8 downturn, they reduced crews and they also stored 9 locomotives. 10 So, then when the economy rebounded, it 11 rebounded faster than the railroad -- this is what a 12 railroad told me, it rebounded faster than they had 13 anticipated, so then they didn't have the resources 14 to adequately serve the customers. 15 So, as a result they were missing switches 16 because they didn't have a crew and they didn't have 17 a locomotive. 18 COMMISSIONER OBERMAN: Well, that was a 19 few years ago, right? 20 MS. DEARDEN: No, that's current. 21 COMMISSIONER OBERMAN: Oh, well, but when 22 you said it rebounded.

| | Page 667 |
|----|---|
| 1 | MS. DEARDEN: Yes, it did. |
| 2 | COMMISSIONER OBERMAN: I know, but when |
| 3 | what year are you pointing to when this |
| 4 | MS. DEARDEN: Well, that's an ongoing |
| 5 | problem and every time we talk to the railroad it's |
| 6 | like we just don't have the resources. They have |
| 7 | train crews, and they are getting locomotives but |
| 8 | they're not there yet. |
| 9 | COMMISSIONER OBERMAN: Well that's |
| 10 | MS. DEARDEN: I don't know how much how |
| 11 | much is due to the situation with the economy and how |
| 12 | much is due to PSR, you see what I'm saying? |
| 13 | COMMISSIONER OBERMAN: Yes. |
| 14 | MS. DEARDEN: Okay. |
| 15 | COMMISSIONER OBERMAN: But it would seem, |
| 16 | from what we keep hearing that as a result of PSR |
| 17 | they're continuing to cut when I say they, across |
| 18 | the boards, I'm not singling out a railroad, |
| 19 | personnel, it seems to be inconsistent with what some |
| 20 | have told you that they're trying to train new we |
| 21 | always have to train, there's some turnover. |
| 22 | But there seems to be some disconnect here |
| 1 | |

- in what we're hearing. I take it that neither of you
- 2 challenge those metrics from the railroads about
- dwell and velocity, that you accept them as accurate?
- 4 Thank you both, that's helpful.
- 5 CHAIRMAN BEGEMAN: Mike, I just have one
- 6 quick question. Yesterday, towards the end of the
- day we were talking about credits and does your
- process also provide for credits to your customers?
- 9 MR. NAATZ: We apply credits again on an
- 10 individual situational basis.
- 11 CHAIRMAN BEGEMAN: And do they expire
- monthly?
- MR. NAATZ: We don't handle things that
- 14 way.
- 15 CHAIRMAN BEGEMAN: Can you tell us how you
- do handle them?
- MR. NAATZ: Again, on a situational basis.
- 18 If we deem that we are the reason for a problem, we
- 19 will work with our customer towards a solution that
- 20 they believe is appropriate. It could be in the form
- of credit days. It could be in the form of other
- 22 things.

Page 669 1 VICE CHAIRMAN FUCHS: I see something, and 2 maybe I'm not reading this correctly, but is there 3 something in the tariff that says excess credits 4 earned in one calendar month may not be used to 5 offset demurrage days, in another calendar month? 6 And is that what the Chairman is referring 7 to when it comes to credits not rolling over or is 8 that something different? MR. NAATZ: No, that would be the same, 10 but again our application of that is going to be very 11 situational. 12 VICE CHAIRMAN FUCHS: So, the default --13 the default rule is that credits expire, but you might have case by case exceptions where you would 15 allow the rollover of credits? 16 MR. NAATZ: Correct. 17 VICE CHAIRMAN FUCHS: And, why do credits 18 expire at all? 19 I'm not in a position to MR. NAATZ: 20 answer that. I don't know. 21 VICE CHAIRMAN FUCHS: Okay. 22 CHAIRMAN BEGEMAN: Okay, I think that we

- $^{
 m l}$ will conclude the first panel, thank you so much,
- very helpful, very much appreciated.
- 3 Panel IX
- 4 CHAIRMAN BEGEMAN: Alright, we will start
- 5 the next panel, which again is with Barilla,
- 6 Normerica and SA Recycling and Sandra, we'll go ahead
- 7 and just kick it off with you.
- MS. DEARDEN: Well I've mentioned before,
- 9 before I started the firm I was with Northwestern and
- 10 UP, but I think it's significant for this testimony
- to mention I was General Manager in the Ag Commodity
- 12 Business Unit. So, because of that, I'm really
- 13 familiar with the transportational landscape in Iowa.
- 14 I'm accompanied by Greg Viers, who is the Barilla
- 15 Purchasing Manager for Durum Wheat and Semolina, U.S.
- 16 and Canada.
- 17 And Greg is based in Ames, Iowa. Barilla
- was founded in 1996 and is headquartered in North
- 19 Brook, Illinois. Barilla produces and distributes
- 20 pasta and sauces and it offers filled and whole
- 21 grain pastas.
- 22 Barilla America has a production plant in

- $^{
 m l}$ durham wheat mill, served by Union Pacific railroad
- in Ames, Iowa, and a production plant served by the
- 3 Livonia, Avon and Lakeville Railroad in Avon, New
- 4 York.
- 5 The LAL connects with 3 Class I railroads
- 6 -- Norfolk Southern, CSX, and Canadian Pacific, via
- operating rights over NS. The Ames plant has a
- 8 durham wheat mill but the plant in Avon does not have
- 9 a mill. So, the Ames mill produces semolina for its
- 10 own production and it also produces semolina which is
- shipped by rail to the Avon plant and to some cold
- 12 packers.
- Barilla is a spot-on arrival customer at
- 14 Ames. The Ames mill sources its wheat from two
- 15 primary regions -- U.S. origins, which are Arizona,
- 16 California, Idaho, North Dakota and Montana, and
- 17 Canadian Northern Plains in Alberta, and
- 18 Saskatchewan. Sourcing of the wheat is based on
- 19 quality demands, market conditions and delivered cost
- to the mill. Domestic shipments originate at
- 21 stations on UP in Arizona, Idaho and California.
- 22 Shipments from those origins move in

- 1 manifest train service and comprise a minor portion
- of Barilla's inbound durham. Approximately 80% of
- the wheat originates in the Northern Plains, 90% of
- 4 the wheat originates offline.
- 5 Barilla receives approximately 22,420
- 6 wheat cars and ships approximately 210 cold product
- 7 cars annually. Starting with the 2014-2015 crop
- year, rails serving the Northern Plains initiated a
- 9 new dedicated train program.
- The railroads committed 75 to 80% of their
- 11 covered hopper fleets to dedicated trains of 100 to
- 12 110 cars, changing the way they managed their grain
- 13 covered hopper cars. Union Pacific Railroad
- encouraged Barilla to expand the track capacity at
- 15 Ames, to accommodate 110-car trains. In the former
- 16 configuration at the mill's infrastructure for
- unloading railcars, Barilla would not have been able
- to turn around a 110-car train in the 48-hour window
- 19 to comply with UP's scheduled switches on Monday,
- Wednesday and Friday.
- However, with the track expansion and
- 22 continuous motion scale Barilla was confident they

- 1 could turn the train in 48-hours. Therefore,
- 2 Barilla made the decision not to spend an additional
- 3 1.2 million to expand the capacity of the unloading
- 4 pits.
- 5 On September 17th of 2018, UP announced
- 6 the railroad's unified plan 2020, which is precision
- 7 railroading. Subsequently, a UP representative told
- 8 Barilla that UP may change direction in the future,
- ⁹ trending away from unit trains. The first hit.
- In November 2018, Barilla took a second
- 11 hit when UP announced changes to its demurrage and
- 12 accessorial rules and charges. UP 6004 to become
- effective January 1, 2019 which included reduction
- of the demurrage credits from 2 days to 1 day for
- unloading.
- Needless to say, after spending 9.3
- million-dollars on a rail-related cap X project,
- 18 Barilla was not happy with this potential change.
- 19 With the current capacity of the unloading pits,
- 20 Barilla cannot unload a train in 24-hours, and the
- 21 cost to increase capacity of the unloading operation,
- will require an additional 1.2 million.

Page 674 Barilla decided to do the rail expansion 2 project and UP signed off on the design. Barilla 3 made this decision to expand its track and storage 4 capacity based on UP and rail industry benefits 5 proposed including the flexibility to purchase wheat 6 from any origin or vendor, and buy wheat that meets 7 Barilla's, excuse me, quality requirements and most 8 competitive price, reduced per car freight costs for 100 to 110 car trains versus 25 car units, shorter 10 lead times from origin to destination, positioning 11 Barilla to be market competitive and mitigation of 12 the risk of running out of wheat and shutting down 13 production. 14 This project required the purchase of 15 additional land and that was 210,000 plus a cap X of 16 9.3 million for modifications to the rail yard and 17 construction of additional silos to increase storage 18 capacity from 20,000 to 30,000 metric tons. 19 The project was recently completed in 20 November 2018, right? 21 MR. VIERS: Can you hear me? I'd like to 22 go through just briefly the design of a rail yard and

- 1 how the UP sets cars into our rail yard, if you want
- to go ahead and go to the next slide. Okay, that's a
- 3 picture of the rail yard as it sat before the
- 4 expansion.
- One stipulation that the Union Pacific
- 6 made when we designed the new rail yard was that the
- 7 movement of the UP would not change. In other words,
- 8 when they sent cars into our yard, they didn't want
- 9 to change their regiment, they wanted to drop the
- 10 cars off in the same pattern as they did or do, did
- before the expansion happened. So, this is the way
- 12 the rail yard looks before the expansion, go ahead
- and go to the next. Sure.
- 14 COMMISSIONER OBERMAN: So, where is the
- 15 track there? Is it --
- MR. VIERS: Okay, that's a good question.
- Okay, the lead line comes off to the top right-hand
- corner, or the top of the slide. We've got a 4800-
- 19 foot lead line coming into our property.
- 20 COMMISSIONER OBERMAN: So, that gray
- 21 stretch is not a highway, that's a railroad track?
- MR. VIERS: That's the railroad track.

Page 676 1 COMMISSIONER OBERMAN: Alright, I see, 2 okay, now I understand it. 3 MR. VIERS: Okay, yeah in the first, the 4 northern most track is the UP east/west main line, 5 it's a double track that goes clear across the State 6 So, what we did with our rail yard is we of Iowa. 7 moved those switches to the top right-hand corner of 8 the picture. We moved those east, that's where the 9 new property was purchased and we extended the 3 main 10 long storage lines inside our rail yard, so go on and 11 go to the next slide. 12 Okay, so here's -- the left-hand picture 13 is the way the storage looked before we added the 14 steel hopper bottom storage tanks and go ahead and go 15 to the next slide. And this is the way the rail line 16 looks, we should have gotten a little bit higher 17 vantage point, but again the two tracks that are on 18 the -- that are darker in color are the UP east/west 19 main line. 20 The next two tracks are the storage tracks 21 that the Union Pacific uses when they bring cars in. 22 The north track on the white rock holds 56 cars.

Page 677 second track to the left holds also 56 cars, so 2 there's your 110-112 car storage capacity for loads 3 coming in. The third track is for storage of empty 5 cars once we unload the cars, we position the empty cars on the third track on the white rock there. 6 7 COMMISSIONER OBERMAN: Just, if you don't 8 mind just for clarification, so when 110 car train is 9 delivered, does the UP cut the train in half? 10 MR. VIERS: They do. They set the first 6 11 cars in, pull out, throw the switch go to the second 12 track, do the same exercise and then so what we do 13 internally is we grab -- we're able to grab 14 cars 14 at a time. We've got enough storage on the west end 15 of our facility to position 14 loaded wheat cars over 16 the unloading pit. 17 Prior to taking the cars to the unloading 18 pit, we installed an NTP or that means in-motion 19 scale, so we never have to stop the cars as we're 20 putting the cars over the pit, so we get an in-motion 21 weight, and then we unload those 14 cars, bring those

22

14 cars out, position them on the third track from

- the railroad's UP east/west main line and go through
- that exercise until we have all the cars placed.
- And I'll make the comment right now --
- 4 this may come up later. We do not or cannot release
- 5 any of that unit train until all the cars are empty.
- 6 So, we're paying demurrage as we sit with empty
- 7 cars. So, that's really all I was going to explain
- 8 is just the movement with inside our yard, and Sandy
- 9 can go ahead and finish her oral testimony.
- MS. DEARDEN: Okay, in today's testimony
- 11 I'll focus on 3 primary topics and that's demurrage
- 12 rules and charges, prepared for service charge and UP
- operations and customer service. On November 5th,
- 14 2018, UP sent an email regarding changes to
- 15 accessorial charges, published in UP tariff 6004 to
- become effective January 1 to, and I quote, "To
- 17 encourage the efficient use and release of
- 18 railcars."
- 19 A significant change was the reduction of
- 20 credit days for loaded and empty railcars from 2
- 21 credit days to 1 day. The same rule applies on
- 22 single car shipments and cars in unit trains.

- 1 Barilla receives 100 to 110 car trains. Therefore,
- the shipper has only 1 day to unload a car or a train
- 3 at its facility as opposed to 2, which has been the
- 4 industry standard for decades.
- 5 As stated previously, when Barilla
- 6 committed 9.3 million in cap X to expand its
- ⁷ infrastructure to accommodate unit trains, UP worked
- 8 with Barilla on the project design and the decision
- 9 was made not to incur the additional costs to expand
- 10 the capacity of the unloading pits because Barilla
- was confident it could unload the train in 48-hours.
- However, with the new facility design,
- 13 Barilla cannot make the 24-hour unloading
- 14 constraint. The primary claim under ICC Termination
- 15 Act of 1995 that is at issue here is pursuant to 49
- USC 10702, which requires the railroad to establish
- 17 reasonable practices related to transportation and
- 18 service.
- 19 The question is what is reasonable? In
- 20 Section 10702, Congress did not limit the Board to a
- 21 single test or standard for determining whether a
- rule or practice is reasonable. Instead, it gave the

- 1 Board broad discretion to conduct case by case fact-
- 2 specific inquiries to give meaning to those terms.
- Applying that broad discretion and ability
- 4 to adopt rules of general applicability to the facts
- 5 at hand, the Board should find the UP's demurrage and
- 6 accessorial charges addressed herein to be per se,
- 7 unreasonable practices.
- 8 The UP tariff also includes a provision
- 9 that if UP does not pick up or deliver a car due to
- 10 UP's actions, an accessorial charge will not be
- 11 assessed. Instead, under UP's standard demurrage
- 12 program, UP would give the customer 2 offsetting
- 13 credits for its operational failures in order to
- maintain a fair and balanced approach.
- UP also adopted a You Are Next policy, so
- 16 customers are notified to prepare for loading or
- unloading a train. However, it's been Barilla's
- 18 experience that they cannot rely on the projected
- 19 ETA's and Barilla does not know actually what You Are
- Next means.
- UP service is not reliable, and we are not
- 22 talking about missing the ETA by a few hours. Trains

- $^{
 m l}$ have actually arrived 24 to 28 hours late. During
- that time, Barilla and the third party incur
- 3 additional labor costs for employees called in to
- 4 service the train.
- 5 There have been a number of operational
- 6 failures, yet Barilla has never seen credits when UP
- ⁷ fails to deliver cars as promised and planned. There
- 8 are a number of problems with the demurrage rules,
- 9 and as a result Barilla is faced with hidden costs
- 10 that were not included in the cost benefit analysis
- 11 to justify expansion of the track and storage
- infrastructure. For example, when UP delivers trains
- 13 to Barilla's plant, UP does not leave the
- 14 locomotives with the train.
- Instead, locomotives are returned to UP
- service and a dead head charge of \$3,200 is assessed.
- 17 Subsequently, when a locomotive returns, to pick up
- the empties, a second dead head charge of \$3,200 is
- 19 assessed. So, for every unit train, Barilla is
- 20 paying \$6,400.
- 21 Removing the three locomotives was at
- 22 Barilla's request due to asset utilization charge

Page 682 proposed by UP of \$200 per hour per engine after free 2 time, which was 1 day. Barilla concluded that the dead head charges were less costly than paying the 4 hourly rate for 3 engines. 5 The dead head charges are unreasonable 6 because the shippers are financially forced to agree 7 with UP's decision not to leave the locomotives with 8 the train. We can only assume that the railroad's decision to return the locomotives to service is 10 based on the railroad's operational needs and there 11 is a cost benefit to the railroad to have access to 12 the locomotives for other trains that move while 13 Barilla unloads its trains. 14 The costs, and potential cost benefit 15 incurred by the railroad when dead heading are not 16 transparent, so we do not know what's behind the 17 \$6,400 per train. However, because the shipper is 18 financially forced to concede and because dead 19 heading is beneficial to the railroad, we submit this 20 charge is unreasonable. 21 Another addition to the tariff was a \$400

22

prepared-for-train-service charge when a car cannot

- $^{
 m l}$ be spotted or pulled because of shipper's actions.
- UP gave examples of reasons for this penalty. We
- 3 appreciate UP's recent announcement to modify this
- 4 rule to only apply per occurrence versus per car.
- 5 However, UP did not go far enough. The
- 6 PFS charges immediately imposed, even if the shipper
- ⁷ is unaware of the situation blocking service and the
- 8 PFS could apply on individual cars shipped or
- 9 received that are single cars, or multiple car
- 10 shipments, less than unit trains.
- 11 The PFS charge, deprives shippers of a
- reasonable period to remedy the situation and it is
- double dipping, so this charge should be terminated.
- 14 In UP's announcement of the changes to the
- 15 accessorial tariff, "it stated, Our top priority is
- to provide safe, reliable transportation for our
- 17 customers. Part of that commitment is to maintain a
- 18 fluid and adequate supply of railcars and to ensure
- 19 that all railcar assets, both railroad and privately
- owned, are utilized as optimally as possible."
- This is a noble goal. However, it seems
- UP is not participating in their own initiative.

- 1 UP's service has not improved. The railroad misses
- 2 switches, and UP service and communications have
- 3 become so unreliable that Barilla cannot plan for
- 4 even an approximate arrival time.
- 5 As a result, Barilla has incurred
- 6 increased labor costs, scheduling crews to unload
- ⁷ trains that arrive 24 to 28 hours late.
- 8 Furthermore, a single missed switch can have a
- 9 significant impact on Barilla's operation. As an
- 10 example, on April 12 of 2019, the UP local switch
- 11 crew did not switch Barilla's parent, which would
- 12 have provided empty pressured differential covered
- 13 hoppers to the Ames mill to load semolina.
- This missed switch, which was caused by
- UP, resulted in a shutdown of the Ames mill for 49
- 16 hours. Shutting down a mill is lost production and
- it's very costly. There have been times when
- 18 released empty unit trains have remained in Barilla's
- 19 yard for up to 4 days before UP crews show up to pull
- the empty cars, thereby impacting on the railroad's
- 21 equipment utilization.
- 22 For trains that move in private cars,

- delayed pick-up of the empties has a negative impact
- on the optimization of the private car fleet.
- 3 Changes to rules highlighted in this testimony are
- 4 not fair or reasonable. While this testimony focuses
- on Union Pacific, these are issues not isolated to
- 6 UP, but they represent attitudes and actions that are
- 7 occurring throughout the rail industry.
- 8 Union Pacific's UP 2020 plan and its
- 9 consideration of potentially discouraging customers
- 10 from shipping and receiving unit trains, unscheduled
- 11 trains, after Barilla invested significant capital to
- expand its rail infrastructure and storage to
- accommodate unit trains is a major concern at
- 14 Barilla.
- This uncertainty and attitude of UP is a
- symptom of the disregard and disrespect railroads
- have for their customers. Barilla is a good
- 18 consistent customer that is local on UP, unlike
- other grain shippers, Barilla's business is not
- seasonal, also, the trains move in railroad cars that
- are furnished by the origin carriers and or they move
- in Barilla's private cars.

Page 686 So, as a result this is just hook and haul 2 business for the UP. One of the questions asked by 3 the Board was whether or not these issues can be 4 addressed in contracts. Initially, when UP located 5 the plant at Ames, UP established contract rates but only for the initial contract term of 5 years or 6 7 2,500 wheat cars, whichever happened sooner. To our knowledge, the railroads in general 9 have decided to only publish grain rates in public 10 tariffs. Therefore, when rates are published in 11 tariffs, this is not an option. Changes to the 12 rules highlighted herein are not fair or reasonable. 13 While this testimony focuses on Union Pacific, these 14 issues are not isolated to UP, but they represent 15 attitudes and actions that are occurring throughout 16 the rail industry. 17 UP's 2020 plan and it's consideration of 18 potentially discouraging customers from shipping and 19 receiving unit trains, unscheduled trains, after the 20 customers commit significant capital to expand their 21 rail infrastructure and storage to accommodate the 22 unit trains is again a symptom of the disregard and

Page 687 1 disrespect the railroads have for their customers. 2 Barilla cannot unload a train in 24-hours. 3 As a result, Barilla either incurs demurrage costs or 4 they spend the additional 1.2 million to increase the 5 capacity of the unloading pits. The questions are 6 whether or not 1 day for loading or unloading is 7 reasonable, and if the same standard should apply for 8 loading and unloading unit trains when it takes 9 longer to handle 110 cars versus a single car. 10 11 Current rules for calculation of demurrage 12 need to be reviewed for potential change. Assessing 13 debits for a full day when cars are for example, 14 released at 12:02 versus 12:01, simply does not seem 15 right as it does not seem fair to apply a full day of 16 debits for only one minute. 17 Considering the clocks of various people 18 involved, may not be in sync, so we encourage the 19 railroads to reconsider their demurrage policies or 20 the Board should launch an in-depth investigation of 21 demurrage and accessorial charges. UP's rules seem 22 to include some empty promises, including off-setting

- 1 credits for operational failures and the Your Are
- Next policy lacks substance when trains arrive 24 to
- 3 28 hours late.
- 4 Barilla has not received any credits for
- 5 operational failures and the You Are Next policy is
- 6 not helpful and can be detrimental. Trains that
- 7 arrive 24 to 28 hours late result in a lost labor
- 8 cost for Barilla. We also submit that the dead head
- 9 charges assessed against customers are unreasonable.
- Barilla is paying dead head charges for
- all trains received for unloading. Without a more
- in-depth investigation and analysis, it would seem
- that the real benefits for not leaving the
- 14 locomotives with the train and returning the power to
- 15 service while trains are being loaded or unloaded.
- This assumption is supported by Mr.
- 17 Rocker's testimony dated May 8th where he says, "Not
- only is a consistent supply of railcars critical to
- 19 ensuring reliability but having the right number of
- locomotives in our fleet is also important for
- 21 consistent operations. Locomotives are costly to
- own, and need to be utilized to their fullest extent.

- There is no foundation for the \$6,400 charge. We
- 2 commend the Board for initiating this proceeding and
- we encourage the Board to initiate an in-depth
- 4 investigation of the Class I railroad's demurrage and
- 5 accessorial charges.
- 6 CHAIRMAN BEGEMAN: Thank you. I don't
- 7 know how to pronounce your first name.
- 8 MS. MARIAM: Dinoja.
- 9 CHAIRMAN BEGEMAN: Dinoja, thank you.
- MS. MARIAM: Good morning, my name is
- 11 Dinoja Mariam and I am legal counsel at North Down
- 12 Industrial and Normerica, Inc. which is the Canadian
- affiliated company. I appreciate the opportunity to
- 14 participate in the hearing.
- 15 A little background on our business.
- Normerica operates 4 manufacturing facilities in
- 17 North America which are located in Dyersburg,
- 18 Tennessee, Phoenix, Arizona, Bradford, Ontario and
- 19 Lethbridge, Alberta.
- We are the leading manufacturers and
- 21 suppliers of various pet products, including our
- 22 primary product, cat litter. The primary raw

- 1 material in clumping cat litter is sodium bentonite
- which is mined and processed in Wyoming.
- Due to the nature of the raw material and
- 4 the volume requirements, shipments of the clay using
- 5 the railway is the only viable method of
- 6 transportation. Therefore, Normerica's reliance on
- 7 the railway is a key component to its operations.
- 8 Normerica regularly experiences business
- 9 interruptions as a direct result of service-related
- 10 issues caused by the railroads.
- Demurrage is imposed without establishing
- 12 fault, there is no reciprocity and there is no way to
- resolve disputes reasonably. The railroad's
- inconsistencies in service often cause a build-up of
- 15 cars, either at the railroad's yards or at our
- 16 facilities which inevitably cause increased demurrage
- 17 and other accessorial charges.
- More importantly, Normerica doesn't have
- 19 any control over bunched deliveries and are unable to
- 20 avoid these type of service inconsistencies and the
- resulting charges. We are forced to either pay the
- increase demurrage charges or request an extra switch

- 1 to ensure our facilities receive the necessary
- 2 shipments to produce our product.
- In either case, the railroads profit from
- 4 their own service deficiencies. Even with
- 5 Normerica's team of employees tasked with
- 6 strategically ordering railcars, in 2018 alone,
- 7 Normerica has incurred over approximately 470,000 in
- 8 demurrage with CN over approximately 220,000 with UP
- 9 and over 430,000 in demurrage and accessorial charges
- 10 with CP.
- Additionally, shippers must unwillingly
- 12 accept the service-related failures of the railroad,
- including their inability to stick to any sort of
- timeline. However, the railroads expect shippers to
- 15 adhere to very strict and precise deadlines for
- 16 reporting empties and picking up railcars or are
- penalized as a result.
- In recent years, Normerica has relied
- 19 heavily on the Canadian Transportation Agency or the
- 20 CTA, in order to manage its service-related disputes
- 21 and disputes related to demurrage and accessorial
- 22 fees with Canadian railroads.

Page 692 One of the hurdles that Normerica 2 experiences when challenging service issues in 3 Canada, is that when it is clear that the railroads are responsible for demurrage and accessorial fees, 5 as well as delays in shipments, the Canadian 6 railroads will place the blame on the U.S. railroads 7 since the shipment originates in the State of Wyoming 8 and is first carried by a U.S. railroad. Up until this point, Normerica has not 10 found a fair and accessible method of challenging 11 these issues for the method of traffic in the United 12 States. The railroads are not held accountable and 13 do not face consequences for their completely unfair 14 and one-sided practices. 15 The absence of a fair and accessible 16 process to challenge the railroad's exercise of power 17 has led to sub-par service. It has led to 18 railroad's refusal to take ownership over major 19 service-related errors, including clear mistakes

20

21

22

made by the railroads and delayed and missed

shipments. There are no consequences for their

Page 693 1 A captive shipper's only option is to 2 accept the sub-par, unpredictable, overly expensive 3 service, or else shutdown its operations. Thank you 4 for providing us with the opportunity to speak on 5 these issues, I look forward to your questions. 6 CHAIRMAN BEGEMAN: Thank you very much. 7 Bobby? MR. TRIESCH: Good morning, Madam Chair. CHAIRMAN BEGEMAN: Good to see you again. 10 MR. TRIESCH: And Vice Chair and Member 11 Oberman, it's nice to you all again, I appreciate the 12 opportunity to be here and speak to the Board about 13 issues facing our company. Once again, my name is 14 Bobby Triesch, I'm the Vice-President and Regional 15 General Manager for SA Recycling. 16 SA Recycling is a full service ferrous and 17 non-ferrous metal recycler based in California, we 18 have 70 recycling facilities around the country --19 California, Texas, Arizona, Nevada, Georgia, Alabama 20 and Tennessee. 21 We handle manufacturing scrap, appliance 22 scrap, automobile recycling, demolition scrap, grain

- waste and even oil filter recycling. We process
- 2 millions of tons of scrap each year and this aids the
- domestic and international manufacturers by having
- 4 raw materials to melt and make into new products.
- 5 SA Recycling is also a member of the
- 6 Institute of Scrap Recycling Industries. My job is I
- 7 am the Regional General Manager for the Georgia
- 8 businesses and in the Georgia business, we call it
- 9 the Georgia region, but it's predominantly Georgia,
- 10 but it's also two facilities in Alabama, but I'll
- 11 refer to it as the Georgia business.
- 12 It's 16 facilities, 14 of them are in
- Georgia and two of them are in Alabama. SA's Georgia
- 14 region resulted in the acquisition of Nor-Recycling
- which was my family's business. Nor-Recycling was
- 16 started by my grandfather back in the 1930's as one
- 17 little tiny operation.
- 18 My grandfather was a single entrepreneur
- and he's the one who eventually in the 1960's came up
- with the idea for the automobile shredder and
- 21 patented it. The automobile shredder is widely used
- throughout the world to handle obsolete end of life

- 1 metal products like cars and appliances.
- I want to thank the Board for the time.
- 3 It's been very informative to hear all the different
- 4 people and I appreciate you hearing our positions
- 5 again. We do continue to face punitive demurrage and
- 6 storage charges, and the railroads are failing to
- 7 provide consistent service and we just really don't
- 8 see an increased benefit of the business from these
- 9 higher costs.
- SA Recycling is heavily dependent on the
- 11 railroad network for the transportation of our scrap
- between facilities and its customers. Our facilities
- ship to -- we have about, in my fleet, we have 650
- private cars, 400 of them are leased, and 250 of them
- 15 are owned.
- 16 Around the entire country, including the
- east coast and the west coast, we're served by the
- 18 UP, the BNSF and of course the Norfolk Southern which
- is the only provider for my Georgia-related
- 20 business.
- During 19 -- excuse me, during 2018, we
- 22 collectively shipped 8,200 -- a little over 8,200

Page 696 railcars. As a result of the serious surface issues 2 on the NS during 2018 and more recently as a result 3 of the zero credit days policy, which took effect in 4 January of this year, our monthly storage and 5 demurrage charges on the NS alone have skyrocketed. 6 The storage fees in January and February 7 of this year were double and triple their already 8 high levels, totaling \$120,000 in January and \$135,000 in February. Since July of last year, we 10 now have an ongoing storage demurrage bill of 11 \$750,000. We have disputed these charges where we 12 believe it's the railroad's own service was an issue 13 but many of these charges relate to empty cars for which the railroad offers no storage days and they 15 end up bunching up and coming to us and these 16 disputes basically remain unresolved, but it's a huge 17 dollar amount that's out there that we're facing.

- 18 Some of the demurrage charges, that we've
- 19 accumulated, resulted from service problems and
- 20 railcar bunching, like I said, that are out of our
- 21 control. It is common for us to receive a string of
- 22 railcars, far more than we can accommodate and I tend

- to focus on our Doraville, Georgia facility, which is
- in northeast Atlanta, because that's our busiest
- ³ facility.
- 5 closed gate facility. We've had situations where the
- 6 NS will deliver or receive at their adjacent rail
- yard, 30 railcars at a time, and of course when you
- 8 can only take 14, you're going to be facing storage
- 9 and demurrage charges, in a best case scenario, on
- 10 the other 16 that came in.
- And if they ended up coming in on a
- 12 Saturday at 2 a.m., you're not going to have those
- 13 cars brought in and unloaded on Saturday or on Sunday
- until Monday morning, so you're -- it's structured
- 15 for failure the way it is.
- In January of this year, the NS increased
- our service days from 5 days to 7 days, but
- realistically we cannot expect our workforce to work
- 19 7 days, I think it's important to have one day off
- 20 work. We work 5 and a half days which is what many
- 21 people in the recycling industry do.
- I know that Ben does the same thing, who

- 1 you heard from yesterday. It's impossible for, or
- it's not effective for us to bring in another crew to
- 3 handle switching out railcars on Saturday afternoon
- 4 and Sunday. It just would be impractical.
- 5 The unfairness of the steeply rising
- 6 charges amplified with the fact that we have made
- 7 good faith efforts to accommodate and adjust our
- 8 operations. We have made investments in our private
- 9 cars. The NS came to us years ago, and said we're
- 10 not investing in gondolas anymore, if you want to
- grow your business, you're going to have to buy your
- own fleet.
- 13 And we started doing that about 20 years
- ago and we've gradually increased that over the
- 15 years. By 2007-2008, when the financial crisis hit,
- 16 we had already had a 450-car fleet and that was
- enough to handle more volume than we're handling
- 18 right now. So, that car or that fleet is right-
- 19 sized.
- Last year, as I met with NS to negotiate
- rates, I was not only using the 450-cars and I was
- using about 250 system cars as well, and I was not

- 1 getting the service I needed. Their response was you
- need more cars. So, we -- I went back to our Board,
- and I said it's not getting any better, they're not
- 4 investing in any more railcars, we need to get our
- 5 own cars.
- So, we went to a company and we bought 50
- 7 more railcars for \$92,000 each, 4.6 million dollars,
- 8 and we leased from that same company 150 cars. So we
- 9 increased our fleet by 200 cars last summer. So, we
- 10 now have a 650-car fleet.
- 11 That investment is as you can imagine, a
- disaster, because not only do we not need those cars,
- we would have been better stayed with the system
- cars, but now we have too many cars, so what's
- happened now is we have taken 100 of those, or 106 of
- those cars, I believe, and had to pay to send them to
- off-site storage, just to relieve the supposed
- 18 congestion in their yard.
- There's no way to get out of these leases.
- When you lease railcars, you're not going to get out
- of a lease. We're obligated for these leases. The
- 22 150 railcars that we lease for \$550 a month is

- 1 \$82,000 per month, so almost a million bucks a year -
- 2 that's the least, that's not even including the 4.6
- million dollars we spent on cars.
- We have investigated additional track
- 5 space around our yard. I have included the Norfolk
- 6 Southern Industrial Development person. I said do
- you have any other space anywhere, you know,
- 8 anywhere, 5, 10, 15, 20, 30, 40 miles. He came back
- 9 and he said there's nothing. He goes I don't have
- anything.
- So, we've tried to come up with other
- scenarios and even if they would have said yes, we
- have a spot that's 10 miles away, there would have
- been a cost to that, there would have been
- 15 transloading costs, we would have had to truck things
- over and it would have been -- it wouldn't have been
- 17 like oh, that's great, we have another facility.
- And where we are located, there's
- 19 development all around us. There's no way to buy a
- 20 piece of property next door, so it just simply can't
- happen. You know, we recognize the importance of an
- 22 efficient railroad network, but these improvements

- $^{
 m l}$ should work to the benefit of both, and when I'm
- talking about efficiency, I'm talking about their
- bunching or train building which is a new term I
- 4 heard yesterday -- train building.
- 5 So, it makes sense. It's logical that
- 6 they would want to put together the most efficient
- 7 train and get it from the steel mill servicing yard
- 8 back to the scrap yard. The reality though is as
- 9 you all have heard and talked about, I can ship out
- 10 14 cars on Monday, and 14 cars on Tuesday and then on
- 11 Monday I might not get anything back and Tuesday I
- may get 30 cars and putting those two together, it's
- 13 expecting perfection and if there was a fair way of
- saying look, we're getting a benefit of having this
- 15 efficient utilization of our locomotives and our
- 16 railcars and for that benefit we're going to give you
- 17 some -- a couple day's credit.
- So, turning to our west coast facilities
- 19 which I need to also report on. We have service
- 20 mainly from UP, we've had issues with the UP in El
- Paso and Las Vegas. There have been times when we've
- been notified about car placements happening after

- 1 hours, after operating hours, but before midnight
- that of course, ends up meaning a day of storage,
- instant revenue for the railroad.
- You've heard this story from many other
- 5 people before, but I think a reasonable free time
- 6 period would help alleviate some of these charges and
- then also, the UP their new policy of not prepared
- 8 for service I think has some serious ramifications.
- 9 This charge is basically assessed when the UP
- determines in its sole discretion that it's unable to
- 11 pull the cars from the yard due to a customer's
- action, which can be made up or dreamed up.
- Once again, it's solely at the discretion
- 14 of the railroad and it's a recipe for a problem.
- 15 Ultimately, the recent changes to the rules and
- 16 charges have created a situation where the railroad
- 17 customers are required to operate with a maximum
- efficiency and no margin for error, and we're
- 19 penalized if we're unable to do so, where the
- ²⁰ railroads are provided maximum flexibility and are
- 21 never sanctioned for their inefficiencies or their
- 22 failures.

Page 703 We believe there needs to be commercially 2 reasonable free time and demurrage rules that 3 incentivize efficiency for the rail system as a 4 whole, rather than rules that force rail customers to 5 dramatically reconfigure operations, lease their own 6 railcars and storage track, which -- but we've done 7 it anyway, and pay higher labor costs to try to avoid 8 these unfair penalties. We would ask that the Board consider 10 establishing requirements for the railroads to commit 11 to reciprocal principles when they hold up private 12 cars or disrupt customers operations. We currently 13 have a situation where the carriers enjoy a clear 14 monopoly in the industry. 15 They can make any operational tariff 16 changes by exerting their inordinate market power 17 over their customers. In return, business like SA 18 Recycling are expected to accommodate these changes 19 without any regard to the disruptions caused to our 20 operations. 21 We are simply asking the Board to 22 recognize our concerns and establish fair, reasonable

- and reciprocal rules and principles regarding
- demurrage and accessorial charges. Again, thank you
- for your time and listening to my comments, I
- 4 appreciate it and I'm happy to answer any questions
- 5 you may have.
- 6 CHAIRMAN BEGEMAN: Thank you all for your
- 7 testimony. Sandra, or Greg, I'll start with you.
- 8 So, you still have unit train service which is good
- 9 to hear since you know on the messages we've been
- 10 receiving is.
- MR. VIERS: Yes, we do.
- 12 CHAIRMAN BEGEMAN: And was there any
- threat that you would have to go to merchandise or
- that has not been on the table?
- MR. VIERS: To manifest train.
- 16 CHAIRMAN BEGEMAN: Manifest, thank you.
- MR. VIERS: They, well even in the Union
- 18 Pacific's opening statement, you may have heard this
- 19 and you, maybe it was kind of disguised, so you
- didn't notice it. In their opening comment they
- said their focus was going to be the movement of all
- 22 cars on their system to be as efficient as possible,

- not train, not concentrate on trains. So, that's our
- biggest -- that's one of our big concerns.
- You know, long term we may have some tough
- 4 decisions to make regarding adapting our system to be
- 5 able to unload faster, that will depend on what you
- 6 folks on the Board decide to do.
- But long term, we have made this
- 8 investment to be able to receive unit trains.
- 9 CHAIRMAN BEGEMAN: So, I think before you
- spend the other 1.2 million to deal with a quicker
- unload requirement, you would want to make sure there
- was some kind of guarantee of continued unit
- 13 service?
- MR. VIERS: That's correct, that's
- 15 correct.
- 16 CHAIRMAN BEGEMAN: At least based on what
- we heard from Ag Processing and others that a lot of
- investments have been made to establish the unit
- 19 train facilities.
- MR. VIERS: Yes, and so, you know, that's
- really scary to us long term. We've made this huge
- 22 investment and we've had communications from the UP

- $^{
 m l}$ that have told us that they're you know, they're
- 2 contemplating moving to manifest traffic and so it's
- not only the receiving of unit trains, but
- 4 establishment of freight rates.
- 5 You know that -- they can adjust their
- 6 freight rates to make unit trains not as feasible for
- ⁷ us and so, that's what worries us long term is, you
- 8 know, their decisions and could be disguised in
- 9 freight rates that would discourage unit train from
- 10 receiving from our site, you know, into our facility.
- So, that's really a very big concern of
- ours.
- 13 CHAIRMAN BEGEMAN: But it does sound like
- 14 from when you decided to build the -- make the
- investment, et cetera, the over 9 million, you
- 16 certainly have had good discussions. There's a lot
- of communication with UP?
- MR. VIERS: Yes, absolutely, but from the
- 19 time that when we made that decision, Barilla does a
- 20 lot of analysis before they make a decision, so we
- 21 started thinking about unit trains back in 2015, the
- decision was made in late 2016.

- And so, it's taken a while. From that
- time, the Union Pacific has gone through a wholesale
- 3 change of management and the people that we spoke to
- 4 about our unit train unloading expansion project our
- 5 plans, are gone. All those people are gone.
- 6 CHAIRMAN BEGEMAN: Well there are a row of
- 7 very competent UP folks right behind you, a little
- 8 squirmy but nodding and I know that one of them will
- 9 raise, you know, shake your hand before you leave the
- 10 room and you will have a contact.
- MR. VIERS: And I will say that we will
- 12 take the UP up on their comment when they made the
- 13 comment that they wanted to work with their customers
- and try to find out or look at any potential ways to
- 15 minimize demurrage. You know, I want to be the first
- 16 to say from Barilla that we need the UP, we have to
- 17 have them.
- There's no other way to bring durum wheat
- 19 clear from the production areas of North Dakota,
- Montana, Canada, that's a long way, you can't do that
- 21 by truck. So, we need the UP, and the first 18 years
- of my employment with Barilla, Barilla's been there

Page 708 for 21 years. The first 18 years were great. 2 And I must say the last 2 to 3 years, not 3 So, we're willing and ready to get back to the 4 quiet enjoyment of the UP service for sure. 5 CHAIRMAN BEGEMAN: And just to clarify for 6 the record, Sandra, when you mentioned some of the 7 service impacts of late, you're not actually 8 referring to any of the results of the flooding are 9 you? You were just --10 MS. DEARDEN: Pardon me? 11 CHAIRMAN BEGEMAN: You weren't referring 12 to any of the impacts of the floods as far as on the 13 service frustrations that you have, it was before 14 that time? 15 No, I wasn't. MS. DEARDEN: 16 CHAIRMAN BEGEMAN: Great. 17 COMMISSIONER OBERMAN: I'd just like to 18 follow^^up on this questioning that Ann led here. 19 Because I asked these questions yesterday, I'm just trying to get a handle on how companies like yours 20 21 make an investment. So, from the way I understood 22 the testimony, it was subsequent to the vortex

- 1 problems in 2014, where you had -- everybody had lost
- a service, that you began to investigate the unit
- train facility and investing the 9.3 million, is that
- 4 right?
- MR. VIERS: That's correct.
- 6 COMMISSIONER OBERMAN: And you said the UP
- 7 came to your place and helped or approved the design
- 8 of what would work?
- 9 MR. VIERS: Yes.
- 10 COMMISSIONER OBERMAN: So, what I'm trying
- 11 to get a hold of here is what kind of
- 12 representations, if any, were made or was it
- implicit? I mean no one would say you should spend 9
- million dollars, by the way we may cut you off in a
- month, so how did those conversations go? I assume
- there's no written promise.
- MR. VIERS: Well, just based off of the
- 18 freight rates that were in place at the time and
- 19 freight rates, through rates from the durum growing
- 20 regions, we're set in such a way that it made sense
- 21 for us to make that investment.
- We also made the investment from a supply

Page 710 chain security standpoint where you know, we did run 2 out of wheat in late 2013, early 2014 because of 3 severe weather conditions at that time but also due 4 to the CP's changeover to precision railroading which 5 really negatively impacted the service and the CP's 6 decision on how to manage their hopper car fleet. 7 COMMISSIONER OBERMAN: But what I wanted 8 to get at though Greg, was what kind of assurance did you have if you would make a 9.3 million dollar 10 investment that the unit train service would 11 continue, or was it just a wing and a prayer, I mean 12 how does that work? 13 MR. VEIRS: No, the UP was encouraged, 14 encouraged us as a customer on their line to make 15 this investment. We designed the plan, they approved 16 the plan, there's a process to go through it's 17 called the 10% conceptual plan, you have to submit 18 that, and have it approved. 19 So, you know they were very encouraging that we make this investment. 20 21 COMMISSIONER OBERMAN: Well, did they say

22

if you make the investment, we'll serve you long

- 1 enough to recoup the investment or did they say by
- the way, we're encouraging you, but we may quit
- 3 tomorrow? I mean how did those conversations happen
- 4 before you write a check for 9.3 million dollars, I'm
- 5 sort of mystified.
- 6 MR. VIERS: Well, we thought that the
- 7 freight rate spreads would stay in place, the
- 8 industry in general sets up those freight rate
- 9 spreads to be in favor of larger units, unit trains,
- 10 that's the way the unit railroad industry has enticed
- green companies and companies that use railroad in
- general to increase their capacity and so, that's why
- we made the decision, assuming that that model to
- increase capacities, get larger unit trains, bring in
- 15 larger unit trains would stay in place.
- 16 COMMISSIONER OBERMAN: This is kind of a
- self-serving question, but would you say it was at a
- 18 reasonable assumption that you made based on past
- 19 practices?
- MR. VIERS: Yes.
- 21 COMMISSIONER OBERMAN: Was there any
- 22 discussion with UP about your unloading pit being

- 1 able to accommodate a 48-hour turnover at the time
- 2 and they said that was sufficient?
- MR. VIERS: They, the people that we
- 4 talked to that were in management positions at that
- 5 time, yes, knew exactly what our capabilities were.
- 6 COMMISSIONER OBERMAN: And they said this
- is fine, this will work?
- MR. VIERS: Well, they never mentioned the
- 9 fact that they would decrease their credit days from
- 10 2 to 1, so there was no objection from the UP.
- 11 COMMISSIONER OBERMAN: And at the time it
- sounds like to have the larger pit to unload in one
- day was an extra 1.2 million?
- MR. VIERS: That's correct.
- 15 COMMISSIONER OBERMAN: How much would it
- be if you wanted to -- or could you even change it
- today without redoing the whole facility? I don't
- 18 know how it works.
- MR. VIERS: It would be, you know, there
- are a number of years since the first study was done,
- but it would be probably close to that, probably a
- little bit more because, you know, everything goes

Page 713 up in time, the materials and labor. 2 So, you know, it would still be close to 3 that same amount now. 4 COMMISSIONER OBERMAN: And, as I 5 understand it, the \$6,400 each for the two-ways for 6 the locomotives, is because you don't -- if you could 7 unload within 24-hours, you wouldn't pay that 8 \$6,400? MR. VIERS: That's correct. 10 COMMISSIONER OBERMAN: They'd leave the 11 locomotives there, I gather. 12 MR. VIERS: That's correct. 13 COMMISSIONER OBERMAN: Are you paying for the cars as well as the \$6,400? 15 MR. VIERS: Yes, we're paying demurrage on 16 the cars as well, and as I stated earlier, we can't

19 COMMISSIONER OBERMAN: So, how much are

release any of the cars until all the cars on the

- you paying per unit train on the car demurrage?
- MR. VIERS: Yeah, in our yard it's \$100
- 22 per car per day.

unit train are empty.

17

18

Page 714 COMMISSIONER OBERMAN: So, you're talking 2 about \$10,000 on top of the \$6,400 for the second 3 So, every unit train to unload and with the 24-hour rule adds a little more than \$16,000 to your 5 costs. 6 MR. VIERS: That's correct. 7 COMMISSONER OBERMAN: So, the debate --MR. VIERS: I'm sorry, a full year 9 increase just due to demurrage, not including the 10 dead head, is \$240,000 a year for us. 11 COMMISSIONER OBERMAN: So, you know, 12 yesterday I don't know if you were here yesterday, I 13 spent a lot of time trying to figure out what it is 14 the railroads are trying to incentivize shippers to 15 do. I guess the UP would say listen, if you spend 16 1.2 million dollars, you can avoid \$240,000 a year 17 and you'll get your money back in 6 years, is that 18 the argument? 19 MR. VIERS: It is. 20 COMMISSIONER OBERMAN: And you're saying 21 yeah, how do I know you'll even serve me in 6 years? 22 MR. VIERS: Well that's right.

Page 715 COMMISSIONER OBERMAN: Has UP offered to 2 quarantee you unit train service if you spend the 1.2 3 million? 4 MR. VIERS: No, we came -- we went to the 5 UP early on when we talked about expansion and we 6 asked for what their appetite was for a contract to 7 keep us, to keep our expansion at Ames, Iowa because 8 we also have a pasta plant in Avon, New York. However, as Sandra said earlier, we don't 10 have a mill in Avon, New York so we really wanted to 11 expand at Ames, and so you know, they -- at that time 12 they never expressed interested in establishing a 13 contract with us and have not since. 14 COMMISSIONER OBERMAN: So, as a business 15 person trying to figure out how to invest your 16 capital, as you sit here today, and you may not want 17 to reveal this, but as you sit here today, how can 18 you make a decision as to whether it's worth to your 19 business to save a quarter of a million dollars a 20 year by investing 1.2 million, I mean with no 21 uncertainty. Are you just playing it day by day or 22 what is the process you're going through?

Page 716 1 Well, again I think that when MR. VIERS: 2 we -- we'll decide what we're going to do longer 3 When you, when the Board decides what you may 4 suggest that the railroads do, you know, we'll have 5 some tough decisions to make as to how we want to 6 proceed. 7 That's for people to decide that are 8 higher up than me but I think we need to make some 9 decisions down the road but I think it will depend 10 upon your actions and what your suggestions may be 11 for the railroads. 12 COMMISSIONER OBERMAN: It just strikes me 13 that, I'm sorry, Sandra? 14 MS. DEARDEN: The unit trains basically 15 originate on other railroads, so their interchange to 16 Union Pacific. Union Pacific has common carrier 17 obligations so they have to bring the unit train 18 like Greg said, the way they could discourage that 19 would be to --20 COMMISSIONER OBERMAN: Change the rates. 21 MS. DEARDEN: Change the rates. 22 COMMISSIONER OBERMAN: Well, this is very

Page 717 helpful because we're trying -- I'm trying to 2 grapple with, you know, what kind of -- you actually 3 have a physical choice if you want to spend money. 4 MR. VIERS: Right. Bobby, Ben Abrams COMMISSIONER OBEMAN: 6 did not, but you still got to make the decision and 7 with a lot of uncertainty, that's what seems to me 8 the biggest issue is the uncertainty. I mean aside from the money. 9 10 MR. VIERS: Right, and I also want to 11 bring this point us is you know, the Union Pacific 12 knew fully well that we were making this big 13 investment or that we had made this big investment. 14 I'm sure during that time they were 15 talking about going to precision railroading, and 16 maybe there's something that where they could not 17 come to us and say, give us advance notice of what 18 they were thinking about doing, I don't know. 19 But we didn't hear any before -- sometime 20 September 15th or 17th, was the first time we heard 21 about them migrating to this new precision 22 railroading model. Then, of course, we didn't hear

- 1 the impact of the cost until November. So, here
- we're sitting, we made this big investment and now we
- fear this is going to happen, then we find out the
- 4 impact of the cost, you know, in some circles they
- 5 call that a bait and switch, and so --
- 6 COMMISSIONER OBERMAN: Here it sounds like
- 7 bait, but you're not getting the switches.
- 8 MR. VIERS: And I, really in past history
- 9 the UP's done a very good job for us, so I'm not here
- 10 to just you know, disparage them, I'm just trying to
- 11 explain what's happened to us.
- 12 COMMISSIONER OBERMAN: Very enlightening
- 13 thank you.
- VICE CHAIRMAN FUCHS: I have a little bit
- 15 distinct from kind of the past investment that kind
- of going forward and assessing what's reasonable. As
- 17 the Board's kind of thinking about what's
- reasonable, should it be thinking about okay, so in
- order to avoid demurrage, you know, whatever the
- incentive would have for you in order to avoid it,
- 21 sounds like it's a 1.2 million dollar cost to avoid
- 22 that demurrage.

Page 719 And that's what, I quess the incentive's 2 designed to do and the reason why they want the 3 incentive is there's going to be some sort of benefit to the rail network, which will go to UP, but also 5 other customers. So, do you all view a good way for 6 us to be thinking about this is okay, how much is 7 that benefit to UP and the other customers versus 8 these 1.2 million dollars. And if the benefit for a not too congested 10 yard, you know, then not really much of a difference 11 when it comes to network performance, isn't that 12 great, that 1.2 million dollars, that incentive 13 effect really isn't reasonable. Is that a way to 14 think about it? 15 Yeah, well one --MS. DEARDEN: 16 VICE CHAIRMAN FUCHS: Can you mic it? 17 MS. DEARDEN: I'm sorry, one potential 18 solution is to consider different free time --19 definition of free time for our unit trains versus 20 single car. Obviously, it takes more time to handle 21 a train than it does to handle a single car, so maybe 22 there should be different definitions if they want to

- $^{
 m l}$ go to you know, one day, maybe that makes sense for
- 2 shipments that move in manifest train service.
- But it doesn't make sense to expect
- 4 somebody to unload a train or load a train with 110
- 5 cars in 24-hours.
- VICE CHAIRMAN FUCHS: Suppose for example,
- 7 a railroad, just hypothetical, a railroad could show,
- you know, if someone were to just make that
- 9 investment, it would just -- it would really free
- things up, this is a very congested area, it's going
- to benefit all these other customers. We just really
- need to incent that person to make that investment.
- 13 Is there ever a scenario in that context
- where actually it would make sense to make the
- 15 investment? Maybe not for you all in this, it sounds
- like what you're saying it does not, but could you
- imagine a scenario where it would make that incentive
- driving an investment would be a good thing for the
- 19 network and other customers?
- MS. DEARDEN: Well, the world's changed in
- the last -- recently. Back when I set up, when I
- 22 actually located 5 100,000 ton drive-off warehouses

- 1 for product in Iowa, and this was kind of common in
- the industry when someone's locating on your railroad
- or expanding their infrastructure to handle trains
- 4 and so forth, the railroads will participate in that
- 5 cost.
- 6 VICE CHAIRMAN FUCHS: Right.
- 7 MS. DEARDEN: And what you would do is
- figure out does the potential of 50% of the cost
- 9 you're going to invest and you would take that and
- 10 with the forecasted volumes, amortize it over a 3 to
- 5 year period and give the customer a per car
- 12 allowance.
- The railroads don't make any commitment to
- the customers now and it's been my experience, I
- 15 talked to basically all the Class I's about this very
- thing except KCS, and it's just something they don't
- do anymore.
- VICE CHAIRMAN FUCHS: And I'm kind, I am
- 19 hearing kind of two different issues that you're
- 20 raising both important, one is how to make decisions
- going forward and then the other is how to treat the
- 22 situation of past investment and so I appreciate what

- ^l you all are saying.
- 2 Can I ask a question of Ms. Mariam? You
- had in your written remarks, you had an interesting
- 4 passage on Canada, the Canadian Transportation Act,
- 5 and I think you mentioned final offer arbitration --
- 6 MS. MARIAM: -- Yep --
- 7 VICE CHAIRMAN FUCHS: -- as a way of not
- 8 only addressing rates, but also issues of practices
- 9 and charges and such and so I was wondering if maybe
- 10 you can give us a little bit more information on how
- 11 final offer arbitration works in the demurrage
- 12 context, and you know, a final offer process
- 13 generally.
- And, whether or not that's a good way to
- 15 resolve disputes?
- MS. MARIAM: Sure, well most of the time
- 17 final offer arbitration in Canada is used for more of
- the rate aspect of it, but demurrage could be a
- 19 factor in it, so if you -- because you can
- incorporate the tariffs or choose not to in your
- 21 final offers. So, when you put out your final offer,
- 22 you could -- primarily for the rates, so you would

- $^{
 m l}$ set a rate and you wouldn't know the other party's
- 2 rate and you can incorporate which tariff you want
- and which tariff you wouldn't want included in your
- 4 final offer, and then the arbitrator would determine
- 5 which is reasonable and which is unreasonable.
- 6 VICE CHAIRMAN FUCHS: That's kind of
- interesting, because you know, how would you
- 8 necessarily know what your demurrage is going to be
- 9 when you incorporate it into your rate structure, ya
- 10 know what I mean? I get that you have the terms of
- the tariff, but that's going to be variable based on
- 12 you know, a variety of factors on the railroad end
- and the shipper and what's the rate for the
- transfer, it's a little bit more predictable I would
- 15 think.
- MS. MARIAM: Yeah, yeah, I think it's --
- 17 you can kind of predict it based on how much you
- would be getting and what you would be ordering based
- on the rate.
- VICE CHAIRMAN FUCHS: Would you look to
- historical averages, perhaps?
- MS. MARIAM: Yes, it would be more on a

- historical average. And we did, when we did go
- through final offer last year, for rates, we did
- incorporate demurrage and we did discuss it during
- 4 our final offer.
- 5 VICE CHAIRMAN FUCHS: And so, if I'm
- 6 hearing you correctly, it's standard practice in
- 7 Canada that demurrage is considered for a
- 8 reasonableness of rates and that there are
- 9 established practices for doing so?
- MS. MARIAM: I don't think it's standard
- 11 practice, but it is considered.
- 12 VICE CHAIRMAN FUCHS: And you all did
- 13 that?
- MS. MARIAM: We did that.
- VICE CHAIRMAN FUCHS: Okay, and is it your
- view that that overall experience was a good way to
- 17 litigate things?
- MS. MARIAM: That's a difficult question.
- 19 I wouldn't say it's the best way to litigate things,
- 20 but I think it helped. It's better than --
- VICE CHAIRMAN FUCHS: Okay, and if I could
- turn to Bobby, you know, you mentioned a couple

Page 725 things, you know, 4.6 million dollar investment I 2 think I heard in cars and just this thing we've heard 3 quite a bit, this movement from -- and it's obviously borne out of all the information that a movement from 5 system to private cars, and you also said the most 6 helpful thing I think I heard was more free time. 7 MR. TRIESCH: Yes. VICE CHAIRMAN FUCHS: And the private cars 9 under -- with the railroad that I think you're 10 focused on is the private cars have less free time 11 than the system cars? 12 MR. TRIESCH: Zero. 13 VICE CHAIRMAN FUCHS: Yes, and if you were 14 to have a system car in your exact same situation, 15 you would have 24 hours? 16 Yes, sir. MR. TRIESCH: 17 VICE CHAIRMAN FUCHS: And so, if in this 18 particular case, where someone had zero free time, if 19 a private car were treated like a system car, that 20 would greatly alleviate a lot of your problems? 21 MR. TRIESCH: It would. 22 VICE CHAIRMAN FUCHS: And, in your

- $^{
 m l}$ discussions with the railroads, to the extent that
- you've had them on this topic -- I know you've had
- discussions with them on demurrage generally -- if
- 4 you would say hey, why don't you treat,
- 5 notwithstanding what you said in your recent tariff
- 6 changes, why don't you treat my car like a "system
- 7 car." What would they say? What is their best
- 8 argument back to you?
- 9 MR. TRIESCH: Well I haven't asked that
- 10 specifically, I certainly had lots of discussions
- 11 with them because, you know, when we met before I
- told you I genuinely like our Norfolk Southern
- people. I've dealt with them for 17 or 18 years, and
- 14 I genuinely like them, they're likeable people.
- I think I can say this -- I think Wall
- 16 Street has probably encouraged them to overreach as a
- 17 negotiating tactic, and I think that going from 5 to
- 4 to 3 to 2 to -- I don't know, somebody said let's
- 19 go to zero. What's the worse that can happen?
- 20 Somebody will ask us a favor and we'll go back to 2
- and everybody will be happy.
- But I think the over-reaching is so

- significant that I haven't asked to say, "well can we
- just go back to 1, can we just go back to what you
- 3 treat the system cars at?" So, I haven't asked
- 4 that. I've said, "You guys should have stayed at 2,"
- 5 there's been some.
- VICE CHAIRMAN FUCHS: Yeah, but it sounds
- 7 like from what you're saying today, obviously you'd
- 8 prefer 2, but even 24-hours would be much improved
- 9 for you, it would alleviate most of the problem?
- 10 Give me a sense of how 24 relative to 2, I mean
- obviously stipulating that you want 2.
- MR. TRIESCH: I'm negotiating against
- 13 myself.
- VICE CHAIRMAN FUCHS: Right, yeah.
- MR. TRIESCH: Right, I think -- there was
- 16 a long time that 5 was the number. And I'm not
- saying that we need to go to 5, but 5 days allowed
- 18 for the railroad and interchange with us and it's
- 19 historically inefficient. They've done great work to
- 20 become more efficient, but there are still inherent
- inefficiencies in the process and a lot of them have
- 22 to do with the first mile and the last mile.

Page 728 You know, we watch railcars and you can 2 see two different railcars on the same day that are 3 released from the steel mill, they go back to an NS yard, one may go directly back to Atlanta. The other 5 one may go to some other state and it's like "well, 6 why does that even happen?" Well, it's because that 7 car got stuck in between some other cars and they 8 didn't want to stop and break it apart and bring it 9 back, so it's for their convenience. 10 VICE CHAIRMAN FUCHS: Right. 11 MR. TRIESCH: That makes sense. 12 think that zero days credit implies perfection and I 13 think we're being held to perfection. We work lots and lots of hours and we strive for perfection, I 15 just think it's unrealistic to go below 2. 16 VICE CHAIRMAN FUCHS: And it sounds like 17 from other testimony that you can actually have 18 operational perfection, but just the natural 19 variability in transit times, you may still get a 20 bunch on the back end. 21 So, the railroad could be perfect and the 22 shipper -- or I should say the receiver, in this case

Page 729 -- could be loading and unloading as fast as they 2 possibly can with every single one of their spots, 3 and you still could have demurrage? MR. TRIESCH: That is correct. VICE CHAIRMAN FUCHS: How is that 6 incenting changes in behavior if everyone's operating 7 perfectly and in a perfect scenario you still have 8 demurrage? MR. TRIESCH: That's exactly right. 10 And we respect the fact that train 11 building or bunching makes sense. But you know, one 12 would argue if I ship 14 cars, then you shall not 13 return more than 14 cars back to me. They're going 14 to go "no way, we don't want to have our hands tied, 15 we want to be able to run our business and ship 16 cars." 17 VICE CHAIRMAN FUCHS: And there are operational reasons why things might be bunched 18 19 together, correct; 20 MR. TRIESCH: Correct. 21 And so, having those 2 days is not 22 admitting that we're not efficient, because I contend

- $^{
 m l}$ that we are absolutely efficient and we're on the top
- of our game. I have one lady who does nothing but
- 3 handle our cars.
- I mean, it's like -- I always just say
- 5 "thank you so much" because she's a miracle worker.
- 6 And I'm like "so where are these cars?" She goes,
- 7 "oh my gosh Bobby, I got you know, these going here
- 8 and these going here" And you know, we used to be
- 9 able to manage our fleet better as well because we
- 10 could reroute cars but part of the new tariff is now
- if you don't have more than 2 rail stations between
- where the car is and the destination, you're not
- able to move the car.
- So, there's lots of things that have been
- 15 put in with these tariffs and changes that make us
- less effective and less efficient at being able to
- 17 perfectly receive every single car that comes back
- 18 and ready for constructive placement.
- 19 VICE CHAIRMAN FUCHS: And so at this point
- where I think that you know, because we've heard it a
- 21 number of times and you know, there are additional
- railroads going today but you know, I haven't seen

- $^{
 m l}$ from the other railroads that are left to testify, I
- 2 haven't seen the same complaints and I haven't seen
- 3 the zero free time practice.
- 4 And so, one of the things I really commend
- 5 the folks from UP yesterday and Kenny Rocker coming
- 6 back up when there was quite a bit of questions on
- 7 the unit train practices, and came up and brought
- 8 some additional light to the issue, and I think all
- 9 of us appreciated that very much.
- And so, if I could be so bold as to say
- that, you know, listen there are repeated at every
- single panel about zero free time, operational
- perfection and still leading to demurrage, as well as
- 14 people not understanding why private cars are treated
- different than system cars, so I would encourage the
- 16 representatives from Norfolk Southern who are here,
- if they would consider at some point today in the
- 18 similar manner that UP did, and in the interest of
- 19 finding constructive solutions and light, whether
- it's a representative of NS or someone who works for
- NS, to come up here and perhaps consider shedding
- 22 more light on the zero time practice, particularly as

- it relates to bunching and differential with system
- 2 cars.
- And again, this is in the interest of
- 4 clarity and constructive solutions.
- 5 CHAIRMAN BEGEMAN: And, I'd also like them
- 6 to talk about the congestion charge if they choose to
- ⁷ take us up on that offer. Dinoja, could I ask you a
- 8 quick question. In your testimony you indicated the
- 9 amount of demurrage charges for the 3 carriers that
- 10 occurred in 2018.
- I'm curious if you have any like, any year
- 12 to date stats given a lot of changes since January.
- Do you know, are things looking like they're doubling
- 14 and tripling or static or -- ?
- MS. MARIAM: I don't have that information
- on me right now, but I would say it's probably going
- up, but I would have to confirm that.
- 18 CHAIRMAN BEGEMAN: Alright and then it's
- 19 also these charges are based on the U.S. operations
- or both U.S. and Canada?
- MS. MARIAM: It was both, it was primarily
- due to the bunching from the U.S. to Canada.

Page 733 1 CHAIRMAN BEGEMAN: Or, at least that's 2 what the Canadian carrier says? 3 MS. MARIAM: Yes. CHAIRMAN BEGEMAN: Just to quote you. And 5 then back to the conversation you were having with 6 Patrick about the final offer arbitration. Could you just give us a sense of how much time that took? Sure, we initially filed for MS. MARIAM: 9 final offer arbitration during the process that we 10 went through in August, I believe, and we had our 11 final offer actual arbitration in October. So, it 12 was and throughout that we had a few pleadings and 13 different issues that came up -- but I would say it's 14 roughly half a year. 15 CHAIRMAN BEGEMAN: And how quickly did you 16 get the response, the answer, the decision? 17 MS. MARIAM: It was relatively quickly. 18 would say a month or two. 19 CHAIRMAN BEGEMAN: And it's confidential, 20 isn't it? 21 MS. MARIAM: It is, yes, it is 22 confidential. But you can publicize -- it is

Page 734 publicized but you can redact certain information, so 2 all of the pleadings are online. 3 CHAIRMAN BEGEMAN: Alright, thank you. COMMISSIONER OBERMAN: Just a few 5 questions Dinoja, to follow-up. I was trying to 6 understand as well the demurrage charges. So, CN is 7 going to be here shortly. The 477,000, is that 8 demurrage charged in Canada? MS. MARIAM: Yes, it's in Canada. 10 COMMISSIONER OBERMAN: So, none of that 11 was incurred at your plant in Tennessee? 12 MS. MARIAM: I believe it was split 13 between the two. 14 COMMISSIONER OBERMAN: So, I'm not clear. 15 CN, I assume, is not delivering these cars to the 16 plant there? 17 MS. MARIAM: Sorry, CN is delivering to 18 our Tennessee plant, it's our end carrier at 19 Tennessee and in Branford, Ontario. 20 COMMISSIONER OBERMAN: Oh, it is, okay. 21 MS. MARIAM: Yeah. 22 COMMISSIONER OBERMAN: So, but you're

- saying not all of the 477 is incurred? The reason
- I'm asking you this is that, as much as I'd like to
- 3 consider the rest of the North America when CN gets
- 4 here, I want to talk to them about what they're doing
- 5 in this country.
- So, some but not all of that 477 is a
- 7 result of charges based on what's happening in
- 8 Tennessee?
- MS. MARIAM: Yes, that's correct.
- 10 COMMISSIONER OBERMAN: And is all of the
- 11 basis of these demurrage charges bunching? And
- 12 therefore, as I sort of skimmed through your
- 13 statement, it sounds like as a result of bunching you
- 14 need to keep cars longer because you have more
- unloading to do than if they spread them out?
- MS. MARIAM: Yes, I wouldn't say all of it
- is due to bunching. I would say the majority is due
- to bunching and yes, you're correct, we would have to
- 19 have it longer because we would get it all at once,
- we would get it on a Friday and we would not have
- 21 enough time to produce --
- 22 COMMISSIONER OBERMAN: And when you try to

- 1 challenge that at the CTA and the CTA said we're not
- going to deal with the part of it that's in the
- 3 United States?
- 4 MS. MARIAM: Yeah, they don't have
- 5 jurisdiction for any portion in the United States.
- 6 COMMISSIONER OBERMAN: So, have you
- 7 contested these -- that portion of the CN charges
- 8 directly with CN?
- 9 MS. MARIAM: We have, and they would blame
- 10 the other carriers, so they would -- and we asked to
- 11 bring all of the carriers in and sit down and discuss
- what is happening with the bunching because -- we are
- missing information, we don't know the information of
- 14 when the interchange happened, who -- apparently
- 15 there is one carrier notifies the other carrier when
- the cars are available.
- We don't have that information, so we
- don't know when -- who's bunching it, when the
- bunching is happening, what is occurring. So we're
- missing information, so they're reluctant to sit down
- 21 and discuss with us.
- 22 COMMISSIONER OBERMAN: Well, is it CN's

Page 737 position when you contest these -- is it still 2 pending, the dispute with CN? 3 MS. MARIAM: No, not that I'm aware of. COMMISSIONER OBERMAN: They've rejected 5 it? 6 MS. MARIAM: I believe so. 7 COMMISSIONER OBERMAN: So, do I understand 8 it this way, CN says it's not your fault and it's 9 not our fault, it's some other carrier's fault, you 10 pay anyway." That's their position? 11 MS. MARIAM: They don't say it's not our 12 fault, they usually also blame us, and they also 13 blame a different carrier, they just choose to not 14 accept any fault on their own part. 15 COMMISSIONER OBERMAN: Now, let's assume 16 they aren't at any fault, for the moment. They seem 17 to be saying even if it's another carrier's fault you 18 pay. 19 MS. MARIAM: Exactly, yes. 20 COMMISSIONER OBERMAN: And have you said 21 "no, make the other carrier pay?" 22 MS. MARIAM: They want us to prove that

- $^{
 m l}$ it's not our fault.
- 2 COMMISSIONER OBERMAN: They just put the
- burden on you to prove what the other carrier's
- 4 doing, is that what you're saying? And, on what
- 5 basis do they say part of it's your fault?
- 6 MS. MARIAM: Well sometimes I think when
- 7 we do order cars, sometimes it is our fault, and we
- 8 would accept some of the charges, that's completely
- 9 our fault, so --
- 10 COMMISSIONER OBERMAN: In what way is it
- 11 your fault?
- MS. MARIAM: When we order too many cars
- or at one time. And we are, we have extra cars
- sitting there or we aren't producing fast enough, so
- we do have extra cars.
- 16 COMMISSIONER OBERMAN: So, sometimes you
- misjudge how many cars you need. And are you able to
- sort out which parts are attributable to what you've
- done and what's attributable to some railroad's
- bunching?
- MS. MARIAM: We have tried to our best
- 22 ability, but the majority of the time it's as a

- 1 result of bunching because we do strategically order
- 2 cars and we know how much each plant needs to
- produce what we need to our input.
- 4 COMMISSIONER OBERMAN: Alright, and in
- 5 your dispute process with CN, do you provide them
- 6 with this evidence to say "look, of all of these
- incidents we over-ordered here, but the rest of it
- 8 we didn't," and they say "we don't care, you pay
- 9 anyway," that's what I'm trying to get at here.
- MS. MARIAM: We did, we -- I'm not sure if
- we do that with CN, but I know with CP we did, when
- 12 we sat down in Canada with them, with the Canadian
- 13 equivalent. We basically had an entire spreadsheet
- created of what we were ordering, where it was
- 15 getting bunched and what we were receiving, how much
- demurrage occurred, and because we were missing that
- information of the interchange, they essentially
- didn't consider it and they wanted us to bring more
- information to the table which we weren't able to
- obtain.
- 21 COMMISSIONER OBERMAN: You'd have to do
- 22 some kind of formal discovery process, I gather, to

Page 740 get data from the other railroad, from the 2 interchanging railroad? 3 MS. MARIAM: Exactly. COMMISSIONER OBERMAN: But that's the 5 Canadian Program. Is all the CP 430,000 was that all 6 in Canada? 7 MS. MARIAM: I believe so. COMMISSIONER OBERMAN: So alright, well 9 I'll pursue it further with the railroads, but you 10 know, we're grappling with this idea of 11 incentivizing -- there's no incentive that would 12 cause you to be able to control what some delivering 13 carrier is doing with bunching, you can't do anything about it, so making you pay doesn't help the system. 15 Is that a fair statement? 16 MS. MARIAM: It is. 17 COMMISSIONER OBERMAN: Bobby, I just have 18 -- I want to clarify a couple of things. First of 19 all, before I ask you a question, I'd just like to 20 note that one of your grandfather's shredders is in 21 my Ward in Chicago. It's a very impressive operation 22 but the reason I know it's there is that it

Page 741 occasionally shoots out big chunks of metal into the 2 backyards of some of my constituents. 3 MR. TRIESCH: Yikes. COMMISSIONER OBERMAN: And they made that 5 clear to me. 6 MR. TRIESCH: On the advice of counsel --7 COMMISSIONER OBERMAN: My former 8 constituents. It's not your yard and the yard's 9 moving, finally. 10 MR. TRIESCH: I know which one you're 11 talking about. 12 COMMISSIONER OBERMAN: It's quite an 13 impressive operation. They're family friends, actually, the owners of that so I can feel free to 15 say what the facts are. The -- I just wanted to make 16 sure the record was clear here. You know, I went 17 into great lengths with your counterpart in 18 Harrisburg yesterday. 19 You seem to be physically in a similar 20 situation -- landlocked in terms of being able to do, 21 to spend capital if you wanted to spend it, it 22 doesn't sound like that's a good option for you?

| | Page 742 |
|----|---|
| 1 | MR. TRIESCH: Correct, yes, sir. |
| 2 | COMMISSIONER OBERMAN: So, if you tried to |
| 3 | separate out the effects of deliveries from PSR, from |
| 4 | the reduction to zero days. In other words, if you |
| 5 | had well let's follow-up what Patrick says, if |
| 6 | you had 24 1 day, could you avoid all of these |
| 7 | demurrage charges? |
| 8 | MR. TRIESCH: I didn't do that |
| 9 | calculation, I asked the lady that works for us, I |
| 10 | asked her the question if we had 2 days, what would |
| 11 | happen and I don't know the percentage but the vast |
| 12 | majority go away, so in other words |
| 13 | COMMISSIONER OBERMAN: With two days. |
| 14 | MR. TRIESCH: With two days, I did not run |
| 15 | the calculation with 1, but I said go back and run it |
| 16 | and she said "yeah, they basically all go away other |
| 17 | than those that we may occasionally do to ourselves." |
| 18 | COMMISSIONER OBERMAN: So, the bulk of |
| 19 | that 750,000? |
| 20 | MR. TRIESCH: Yes, sir. |
| 21 | COMMISSIONER OBERMAN: So, if we're trying |
| 22 | to say where's the pressure point in the system, you |

Page 743 seem to have no place to move over here to spend 2 unlimited capital, if you had it and over here, it's 3 the railroad having to give up from zero to perhaps 2 4 days to resolve this problem, that seems to be the 5 options. 6 MR. TRIESCH: Yes, sir. 7 COMMISSIONER OBERMAN: And, I say this so 8 facetiously, but only partly facetiously, if Wall 9 Street has moved them from 5 to 4 to 3 to zero, 2 to 10 zero, is the next move to minus 1? 11 MR. TRIESCH: I wish you wouldn't have 12 said that. 13 COMMISSIONER OBERMAN: You think they 14 needed to hear it from me to plug it in there? 15 Alright, I just sort of -- so again, the \$750,000 is 16 no incentive, there's nothing you can do to avoid it? 17 MR. TRIESCH: That's exactly right and 18 that's what I was trying to say. 19 So, it's all --COMMISSIONER OBERMAN: 20 MR. TRIESCH: Revenue. 21 COMMISSIONER OBERMAN: Well, it's all 22 revenue, it doesn't fulfill the purpose of the

- demurrage statute to make the system flow because
- you're -- to accept Patrick's premise -- you're
- operating if not in perfection, you're operating as
- 4 efficiently as a business can?
- 5 MR. TRIESCH: I take a lot of pride in the
- 6 way we operate. We have really good people that are
- 7 not only thinking, they're proactively and
- 8 predictably thinking about "oh my gosh, what could
- 9 happen, "we're analyzing railcars and movements. I
- think we do a really, really good job.
- 11 COMMISSIONER OBERMAN: They're not sitting
- 12 around with their feet up and eating Bar-b-que.
- MR. TRIESCH: No, sir. Which is why I've
- come to my personal conclusion which to me is just
- 15 that a negotiating tactic has been taken to an
- 16 extreme and no compromise back. I think that's the
- 17 solution, that's my personal two cents.
- 18 COMMISSIONER OBERMAN: Thank you, yeah,
- 19 thank you.
- VICE CHAIRMAN FUCHS: And just quick in
- the interest of fairness, you know, I think both Ms.
- 22 Mariam and Mr. Triesch, you both touched on something

- which is: it's not the case that when a bunch of cars
- go back to the facility, a bunch of empties, that
- outstrip capacity, it's not the case that it's not
- 4 your fault.
- In other words, there are some bunches
- 6 because you order too much where it is your fault.
- 7 So, it's kind of tricky because --
- MR. TRIESCH: Not us, we don't order.
- 9 VICE CHAIRMAN FUCHS: So, when would, talk
- 10 me through your example where demurrage, you would
- 11 rightfully get demurrage, is it just on the loading
- 12 and unloading?
- MR. TRIESCH: Okay, so a case where we
- would rightfully have demurrage --
- 15 VICE CHAIRMAN FUCHS: Yeah.
- MR. TRIESCH: -- is if we have a scheduled
- outage at our plant.
- VICE CHAIRMAN FUCHS: Okay.
- MR. TRIESCH: -- and we have no product to
- 20 ship.
- VICE CHAIRMAN FUCHS: What about, Miss
- 22 Mariam, you said sometimes you order too many cars?

Page 746 MS. MARIAM: It doesn't happen that often, 2 I was just giving an example. 3 VICE CHAIRMAN FUCHS: And I'm not saying 4 it happens often, but I'm just let's say you both 5 never did that, but let's say there's a hypothetical 6 example where you may have ordered too many, how would we, how could we differentiate the case that 7 8 I've kind of been using you know, over and over again, probably people are sick of it, which is the 10 5, 5 and 5 on three separate days for a facility that 11 has 10 spots, that come back as 15, okay. 12 That one there's natural -- the way I've 13 been describing it is natural variability in transit 14 times, plus efficiencies with railroading, it comes 15 back as 15, it outstrips capacity. That's just a 16 cycle time back, everything is cycling back, alright. 17 Now, talk me through using that kind of 18 hypothetical, or whatever hypothetical you want, 19 about when a bunch would be the fault of the 20 receiver. 21 MS. MARIAM: I don't know if there would 22 be an example when bunching would --

Page 747

VICE CHAIRMAN FUCHS: I don't mean, get

- 2 away from the term bunch, but just too many empties
- ³ relative to your capacity. How would we be able to
- 4 verify that that was your fault? I mean not your
- 5 fault, a receiver's fault.
- 6 MR. TRIESCH: I would say so having too
- ⁷ big of a fleet. If you have more cars than you can
- 8 have in your fleet because of ups and downs in the
- 9 markets, you have to respond by sending excess cars
- 10 to off site storage, which we've done as I told you
- about 106 or 110 cars. We acknowledged that we have
- too many cars in our fleet, so we've had to take
- 13 actions.

1

- 14 That's not instantaneous. That can't
- 15 happen one day. And just furthermore, I mean going
- back, the Doraville yard, the NS yard that's adjacent
- 17 to us.
- VICE CHAIRMAN FUCHS: Sure.
- MR. TRIESCH: Historically, and we've had
- 20 storage issues in the past, four to five years ago we
- 21 had an issue that really had to do with -- we went to
- open gate because they wanted us to be open gate.

- 1 The problem with that -- the crews wanted to supply
- 2 cars LIFO.
- VICE CHAIRMAN FUCHS: Right.
- 4 MR. TRIESCH: So, I had a car, I had some
- 5 cars up in the very front of the yard that didn't
- 6 move for a year.
- 7 VICE CHAIRMAN FUCHS: And something, you
- 8 know, we haven't talked about as much, but the LIFO,
- 9 FIFO, is it important, yeah.
- MR. TRIESCH: So, we went back and forth
- with them, but the way we ultimately settled that
- 12 peacefully, amicably with my counterparts at the
- railroad was "look Bobby, we think that you having 85
- 14 cars in our yard is the right number, meaning that's
- 15 about 5 day. I'm telling you what the conversation 4
- or 5 years ago."
- 17 And so they said "look, so maybe what we
- 18 can do is if you ever have more than 85 cars in a
- 19 yard, then you acknowledge or you stipulate that you
- have too many cars in our yard and then we're going
- 21 to charge you."
- We batted that back and forth, he took it

Page 749 up the ladder at NS and somebody didn't like that, so 2 we didn't do anything with that. Today, we're asked 3 for if we have more than 28 cars -- which would be two days of switching -- , if we have more than 28 5 cars that were causing congestion to have zero 6 demurrage, we would have 14 cars because that's all 7 we theoretically could take in one day. VICE CHAIRMAN FUCHS: I hear you, but I 9 want to quick just make sure we get the LIFO/FIFO, 10 because it's a non-issue we've talked a lot about, 11 but it's been mentioned in two other testimonies. Ts 12 it your view that cars that are fungible should be 13 treated kind of neutrally for the purposes of 14 demurrage, if you know what I'm trying to get at, 15 which is that regardless if one, you know, came in 16 earlier and one came in later, but the later one's 17 easier to get out. 18 You basically, you know, can transfer that 19 so you're just not continually getting demurrage. 20 the cars are fungible, that is what a reasonable 21 practice is. 22 MR. TRIESCH: Yes.

Page 750 1 VICE CHAIRMAN FUCHS: Alright, now going 2 back to the example, you know it is just an 3 interesting scenario though because alright, so you 4 have the 5, 5, and 5 and then you have the spots for 5 10, and then 15 all come back. 6 How, you know, -- and what I gather from 7 what you're saying is okay, so you're going to get 8 demurrage on that 5 and you're going to loading and 9 unloading the 5 -- but if you were to say reduce 10 your fleet to 10, and just do 10, you would have a 11 car shortage for that third day of loading if you're 12 tracking with me. 13 MR. TRIESCH: We could. We have to have 14 more cars to make up for the way cars come back. 15 VICE CHAIRMAN FUCHS: Okay, but now take a 16 scenario where a fleet is too big, right? 17 that's what I'm hearing, you're describing, here's 18 demurrage that our fleet has just been too big for 19 the normal cycle times, and so we're actually using 20 railroad capacity, and in a way that there should be 21 some sort of incentive for us to deal with that okay. 22 How would we know, like you know, when

- 1 somebody's fleet is too big? Do you know what I'm
- 2 saying? Like when we're thinking about the bunching
- 3 issue, it strikes me that some bunching -- I say
- 4 bunching -- some bunching is going to be because
- 5 people's fleets are too big and they're making too
- 6 many empty car orders or something. And some
- bunching's going to be listen -- things are going
- 8 great but it's just our shipping capacity through
- 9 natural variations.
- 10 And what I'm struggling with is how to
- 11 differentiate.
- MR. TRIESCH: Sure. It's inevitably messy
- 13 because of normal changes -- there could be weather
- related things, there's railroad related things,
- there's breakdown related things. The best way to
- do it is acknowledge that it's never going to be
- 17 perfectly timed where the cars are going to get
- 18 released from steel mills to the railroad to building
- 19 a train to back on a just in time basis.
- We are going to be forced to pay, if it is
- zero credit days, we will be forced to pay more money
- 22 for having provided a fleet to do business with the

- 1 railroad. If -- and I think most shippers probably
- 2 have good relationships with their railroad partners,
- ³ I'm just assuming that. But the way it would have
- 4 happened, or not in the past, but even right now --
- 5 they would say "hey, you know, you've got more cars
- than we need in our yard, you know, what's going on
- ⁷ here.
- 8 Yeah, we're charging you demurrage, but you know, you
- 9 need to move some cars out." And that's what
- happened in February after we had \$135,000 bill, it's
- 11 like, okay, we got -- you guys are now moving cars a
- 12 lot faster, we got more cars than you want in your
- yard, we are now going to have to make arrangements
- and we have to go negotiate a deal and we had to send
- 15 cars to storage, you have to pay the freight to get
- into storage, you don't get to use your empty move to
- 17 take them to storage.
- So, you know, that was another \$100,000.
- 19 VICE CHAIRMAN FUCHS: So to kind of put a
- 20 -- one way to look at it, just to kind of summarize
- it, is one thing that we're hearing is oh, you know,
- 22 the Board ought to think that zero hours of free time

Page 753 is just unreasonable, right because of the natural 2 variability, right? 3 And then, is another way to think about it that zero free time should be presumed to be 5 unreasonable unless the carrier can establish, you 6 know, that there's capacity and they ship relative to what the shipment size is, you know. And there, 8 you know, is there something that, you know, where zero hours free time the shipper -- or excuse me, the 10 carrier -- could overcome and actually show that 11 something actually could be reasonable based on what 12 the actual capacity is? 13 In other words, presumptively unreasonable 14 unless on a showing that it could be. I'm just 15 thinking about ways that people are trying to tell, 16 people are telling us to think about this. And I 17 know what you're telling us is that for your case, 18 zero is always unreasonable. 19 But you know what I mean is that, you 20 know. 21 MR. TRIESCH: Anybody who would come and 22 say zero is reasonable is not being truthful -- or is

Page 754 not really looking and doesn't really granularly 2 understand and watch the movements of railcars. 3 VICE CHAIRMAN FUCHS: Or, they could have a lot of capacity relative to their shipment size. 5 MR. TRIESCH: That is correct. I just, I 6 truly believe that and I'm telling you the truth. 7 CHAIRMAN BEGEMAN: Thank you all, really 8 super helpful, very informative and we will call up 9 panel 10. 10 Panel X 11 CHAIRMAN BEGEMAN: Alright now, we will be 12 on Panel X and why don't we start with Steve? 13 MR. DEHAAN: Thank you. Honorable members of the Surface Transportation Board, thank you so 15 much for holding the hearing today, we really 16 appreciate it. I was just telling some of my 17 colleagues in the first part of March, I was with our 18 Transportation Advisory Committee, 95% of them are 19 rail customers and we had rail demurrage on our 20 agenda, and we talked about how we help our members 21 file complaints on demurrage charges. 22 And if we had one continuous theme to run

- 1 throughout all of those complaints as a proper
- resolve to this situation, what would it be? Well,
- 3 little did I know 10 days later I'd be notified that
- 4 you were holding a hearing.
- 5 So, it was kind of strange that it all
- 6 happened. So I'll just tell you something a little
- 7 more about the Association. We were formed in 1891,
- 8 25 warehouse guys got together to discuss rail
- 9 demurrage. Here we are 128 years later and we're
- 10 still talking about it.
- And it's just kind of an interesting
- 12 thing. And I'm just going to kind of bottom line it
- 13 a little bit to say some of the things here, but the
- bottom line is we really believe the resolve from the
- 15 people that were in the room that the resolve is
- define demurrage as after actual placement 48 hours
- 17 to unload.
- We have members that unload grain in bags.
- 19 We have them unload chemicals, lots of boxcars, lots
- 20 of food, just about all of our warehouses are food
- grade, sanitary, it's important that when we receive
- 22 a boxcar of goods that it is intact, sometimes

- they're not. More so, since there's been more
- bunching because the more times you slam into that
- 3 car the more the load shifts. So, there are lots of
- 4 issues for us.
- 5 And when I say actual placement, what do I
- 6 actually mean? For a shipper, and I might even
- 7 suggest that the STB might want to create a key
- 8 performance indicator of these so that you can
- 9 develop hard data that's verifiable. Right now, it
- 10 seems like all the data we have we beg for from the
- 11 railroads.
- 12 And this would be verifiable from shippers
- 13 and receivers. And it would be at the door, released
- 14 from the door, time and date. And then at a
- 15 receiver's door, at the door, date and time of
- 16 release. That gives you hard data to compare up
- against, and you don't have this thing where -- and
- 18 one of the statistics I heard from the railroads was
- 19 "73% of our loads are delivered on time. Well that's
- on time to the local yard, what good is that?"
- That doesn't help the car get unloaded.
- 22 That doesn't put the car back in service, it doesn't

- do anything. And we talked a lot about last mile,
- and it is in the last mile. It has to get to the
- door, and it has to have a crew and stacking
- 4 equipment and all kinds of stuff available to the
- 5 warehousemen in order to do that.
- And so, absent of that, there's nothing
- 7 that our receivers can do to do it. And I just go
- 8 through it, you know, we talk about control over the
- 9 cars. Who has control? Because without control,
- 10 you can't do anything. Nothing. And for us, until
- 11 it shows up at the door, we have no control. We
- 12 can't get it there, nor can we get it back in the
- yard afterwards.
- We are totally reliant on the railroads to
- do that. But they seem to have a different system.
- 16 They think once they get to the yard, we start into
- 17 system 2. Well, shippers aren't paying for system 2,
- they're paying for the load to be delivered to the
- 19 receiver period.
- So, you know I hear all of the things out
- there about demurrage and time and dwell and
- everything else, and you can read my written material

- $^{
 m l}$ and it's very specific. And fortunately, I was
- 2 playing devil's advocate with our own members, same
- 3 as the questions you're asking the group. Asking
- 4 them about this, and asking them about that, and
- 5 how's this work and how's that work, and the only
- 6 thing that we could get --
- 7 I could only get 75% agreement in the room that
- 8 actual placement 48 business hours would work. That
- 9 would work. I talked to them about 24, I did not
- 10 talk to them about zero because that's outrageous and
- we all recognize that was outrageous.
- So, I talked to them about 24. Well, it
- all depends what they're unloading. If they're
- unloading grain, they can't unload a car in 24 hours.
- 15 If they're unloading everything on a pallet, it
- might take then 2 hours, it just depends what kind of
- 17 loads they're getting.
- Well, they don't know what kind of loads
- 19 they're getting. So how do you set a rule or best
- 20 practice and put it into place without doing that?
- 21 So, I just wanted to let you know that. We have no
- 22 control over the railroad's tariffs. We have no

- $^{
 m l}$ control over when they change their tariffs.
- But you do, as the STB. And the warehouse
- 3 has no control into the when, how or the timing or
- 4 anything else of that. So, again I just suggest if
- 5 we could get a date and time stamp, on those four
- 6 indicators, it could be verified outside of the
- 7 railroads, and you would have concrete data and it
- 8 would be very measurable concrete data.
- And if you're going to make decisions in
- 10 the future, we have to do data. And we're all big
- data today, everybody is big data today. And by the
- way, I was sitting with some receivers out in the
- audience and said they're all watching to see what
- 14 cars are arriving. They're getting it on their
- 15 phones, they're watching it. They're going out in
- the hallways making calls about making sure because
- they're here, they want to make sure they're doing it
- 18 right and they're all doing it.
- They're active members in this, they want
- 20 to serve their customers well, their customers are
- the shippers because they get paid by the shippers
- 22 and they don't get paid until that car is emptied.

- 1 They cannot bill it until it's empty. So, they have
- 2 no investment in anything up to that point, although
- 3 they can be penalized.
- 4 And they don't like it very much when
- 5 they're penalized when it's like I've got my hands
- 6 tied, you know, I've got service days, but I don't
- 7 get delivered. I only get delivered two-thirds of
- 8 the time.
- 9 I ask for more service days because I've
- got 15 cars in the yard and I've got 5 doors, I need
- another service day. I don't want to pay more
- demurrage. I don't want any demurrage charges for
- my shipper. I don't want any of this. How do I get
- 14 another service day, et cetera, et cetera?
- So, I asked myself, how does it work with
- other industries? Well, our guys receive trucks all
- 17 the time. But you're given a window, your truck has
- 18 to arrive within that hour long window. And we are
- 19 given a window often by the shippers as to how long
- we have to unload that truck. So, when it has to be
- 21 back out on the road. It happens all the time.
- You see it in the airlines. You see it

- all the time. You see the times being adjusted,
- thank goodness for Google, we could all see where the
- 3 congestion is. We have guys that deliver auto parts.
- 4 They have 26 touch points every month, different
- 5 hours of the day, 6 days a week, 26 touch points.
- If you hit all 26 touch points by your
- 7 assigned time -- let's just say 10, 2 and 6 -- you
- 8 get a 2% bonus. Now that's an incentive to try to
- 9 hit every touch point. You miss one time and you get
- 10 paid your contract. You miss two times, and you
- 11 subtract 2% off your -- that's a 97% rate that you
- have to meet in order to get your contract.
- 13 You have to do it. That's how you get
- paid. And you're not going to make any money if you
- don't get to that standard. When you come to the
- 16 railroads and we talk 73% to the yard. We talk 38
- to 50% of the customers are billed demurrage --
- 18 that's a failure rate.
- 19 That's a failure rate to serve their
- customers and they're telling you what it is. 73%
- delivery rate, come on, what is that? We don't have
- 22 that anywhere in the logistics industry. I remember

- when my daughter sometimes was whining -- and I heard
- a lot of whining from the railroads, "it's too
- 3 complicated, it's too complex, it's too much
- 4 government oversight, elaborate dispute systems,
- 5 notice before changes." Oh, asset utilization, I love
- 6 that. We all want to utilize our assets. We
- 7 particularly want to utilize our assets, it's not
- 9 just the railroad that wants that. Every supplier
- 9 wants that, and every receiver wants that.
- Well what is that? It's the same for
- 11 everybody. We value our customers. Well no, you
- don't. You only have a 73% success ratio in getting
- it to the yard on time. You haven't gotten it to the
- end receiver, only to the yard.
- And you've got a 38 and 50% demurrage
- 16 rate. What does that say about how you value your
- 17 customers? There is no valuing of the customers.
- 18 It's all about their business. It's all about their
- 19 business. And I remember one time when my daughter
- was in college and she was whining about how tough
- life was and all of her problems and how it was so
- 22 hard to study and everything.

Page 763 And I told her. "You know what? 2 just going to have to suck it up. " Because that's 3 the message we have to sort of send to the railroads. 4 It's time that you start performing and stop listing 5 all of the things that stop you from performing. 6 They keep blaming others and yet we don't 7 get paid unless the goods arrive. There's nothing we 8 can do about it. So, when I talk about actual 9 placement, that solves, and you've got all these 10 credit systems, all these storage systems, all these 11 leasing systems, you got all these other things. 12 Why? Deliver the goods. Stop writing all 13 these tariffs, deliver the goods, start the clock 14 then. If we don't get our job done on the other end, 15 then we can start talking demurrage, but don't start 16 talking demurrage if the goods haven't been 17 delivered. That's just ridiculous. 18 You can get a door time. They know when 19 that car's put in service. They know how many doors 20 the receiver has. They can get a door time. They 21 can alter that door time as you move along. 22 receivers know what the load is, they can estimate

- 1 the unload time.
- They can work with the railroads and often
- do and a lot of them have really good relationships
- 4 with the yard people and they work together to make
- 5 sure. But what we have happening now is we've got
- 6 longer trains and we talk congestion. I didn't even
- 7 know there was a congestion fee until I arrived,
- 8 nobody in our industry had talked about it yet. And
- 9 it's kind of interesting to see what was happening
- 10 here.
- But the trains have gone from 4 to 600 --
- 12 and I'm getting this information from my members --
- they've gone goes from 4 to 600 feet to 600, to 800
- 14 feet. So, they are delivering 33 to 50% more cars
- to a yard and every time they build a train, they're
- building it with 33 to 50 more cars, 53% more cars.
- Well what does that do to a yard? How do
- 18 you handle 50% more cars in your yard and get it all
- managed so you can get it out on the service tracks
- and get it delivered to your customer or get them
- 21 back and get them built up so you can send them back?
- 22 They created their own issues of yard

- 1 congestion and now they've developed a fee for it.
- 2 It's amazing, it's just absolutely amazing. And
- 3 they've done it -- not only that because it doesn't
- 4 work, the demurrage clock goes off as well. All the
- 5 clocks go off and you can see from my testimony
- 6 there.
- I started in this industry in 2013, the
- 8 demurrage charge was \$50 a day per car. We've heard
- 9 testimony here, nothing was below \$130. A lot of
- 10 them were \$200, okay? We went from 48 hours to 24,
- my testimony says that that's an 800% increase.
- I happen to be a statistician, I'm firm in
- my numbers. It's an 800% increase in 6 years. What?
- 14 It reminds me of that little insurance commercial,
- what? You're stealing from me? It reminds me of it.
- We've just got to move forward with this.
- 17 I've watched systems with the truckers, and I've
- watched our systems managing brokerages, I've watched
- 19 the airlines, I've watched them all, and I've got the
- 20 boards of movement. I'm sure, I'm positive that the
- 21 railroads have them. Our customer service
- departments follow all of those trucks all the time,

- $^{\mathrm{l}}$ we know where they are, we send messages out to our
- 2 customers all the time saying we're stuck in traffic
- here, you know, the Cincinnati Bridge, "we're backed
- 4 up two hours again. You know, we've had an accident
- 5 here, et cetera." All of those messages go out all
- 6 the time. Our customer service representatives, our
- 7 CSR's are busy all the time because we take care of
- 8 our customers. Do you get any of that from the
- 9 railroad? Oh, you better go check their system.
- They can't tell you, they tell you to go
- 11 check their system. You heard that testimony. Well,
- 12 you have to go check our system. No, you know, need
- to know what's in your system and where your cars are
- and whether you're providing service to your
- 15 customers or not. It's not for the customer to whine
- about going in to check it, it's about your making
- 17 sure you're providing the service.
- And that's what it's all about. I'm sorry
- 19 to be so forceful and so straightforward. We've had
- 20 this problem for 125 years. In the last 6 years it's
- quadrupled. When we gave the railroads the right to
- write their own tariffs, we trusted them. That they

- would use their numbers and their knowledge and that
- they were sincere about their wanting to provide
- 3 service, et cetera. And so we gave them the right to
- 4 do it and stop all the oversight.
- 5 There is no trust anymore. You've heard
- 6 so much testimony from so many people that they got
- 7 something they didn't know was going to happen to
- 8 them. And they won't trust the railroad ever
- ⁹ again, ever.
- Because they got rolled over. Multiple
- 11 hundred thousand-dollar demurrage bills for a little
- 12 3 million-dollar operation? What is that? I mean
- there's just no concern, no working with the
- 14 customer, no nothing.
- I listened to them up here, "well we're
- 16 consider that on a case by case basis." No. You are
- 17 systematic about sending those demurrage invoices.
- 18 You don't even double-check them, you just send them
- 19 and then it's up to the receiver to double-check them
- 20 and I love your questions by the way, do you ever
- look at them, they don't.
- They're system generated and they're awful

Page 768 and they pile up. So, we are considering putting 2 into our standard contract a demurrage mitigation fee 3 because it takes so much time. 38% demurrage charges 4 -- look at all the executive time, look at all the 5 manager time, look at all the logging time, look at 6 all the cameras we have to have out there to look at 7 the loads to make sure they came in. Look at all the evidence we have to create 9 in order for somebody on your staff here to say yeah, 10 there's enough evidence there if the railroads still refuse. I mean it's just outrageous. You have a 11 12 whole staff to it, our members have a whole staff to 13 it, the railroads have whole departments to it. 14 What is this? Get rid of it. Actual 15 placement, time to unload. Reasonable fees, 48 16 business hours. If you make it business hours, it 17 doesn't matter when to bring the cars, as long as I 18 can get a crew in to unload it. If I know it's 19 coming it's even better, but if I have a crew there 20 and you don't deliver it, shame on you. 21 railroads should know better.

22

It's just awful, they're not a good

- 1 partner. They are good at moving goods long
- distances and they are good at heavy loads. There is
- a place for them. You'll see in my testimony where
- 4 55,000 loads -- truckloads -- go unshipped every day.
- 5 We need more logistics movement than ever, but boxcar
- 6 shipments are down 16%.
- We get charged demurrage. One of the
- 8 companies if I took their quarterly demurrage charge
- 9 for the first quarter of 2019, would have 1.5 million
- dollars in demurrage. They could buy 10,000 boxcars
- 11 for that at \$140,000 a car.
- 12 It's not about dwell time, it's not about
- it. You ride by any yard, any yard, you'll see
- boxcars sitting on the sideline. And if you ride by
- 15 it 5, 10, 20, 30, 2 months, 6 months, they're still
- 16 sitting there. Maybe they're broken, who knows. But
- why would you have a broken car sitting on the track,
- 18 particularly when your yards are full?
- 19 You would get rid of them. There's all
- 20 kinds of things out there that make you question what
- is really going on? I'm hearing this but it doesn't
- 22 marry up to what I'm seeing. I'm hearing this, but

- it's not what's happening to me. I'm hearing this
- that they're open, but every time I talk to them,
- 3 they're really difficult to deal with.
- So, with this, I leave you again, the
- 5 easy, really easy answer. Actual placement, 48
- 6 hours, 48 business hours to unload. It just
- ⁷ simplifies everything. I thank you.
- 8 CHAIRMAN BEGEMAN: Thank you very much.
- 9 Kathryn?
- MS. CLAY: Good afternoon, good afternoon
- 11 Chairman Begeman, Vice Chairman Fuchs and Board
- 12 Member Oberman. Thank you for the opportunity to
- 13 testify today on behalf of the International Liquid
- 14 Terminals Association and I also want to thank the
- 15 Board for not only holding the hearing but the
- inclusiveness of the hearing and if I may compliment
- 17 you on your stamina, your stamina and that of your
- 18 staff, so thank you very much for that.
- 19 The International Liquid Terminals
- 20 Association represents more than 85 companies
- operating liquid terminals in all 50 U.S. states and
- 22 in 37 countries. Our members' facilities form a

- 1 critical link in the transportation of a wide range
- of liquid commodities, including crude oil, refined
- 3 products, chemicals, renewable fuels, fertilizers,
- vegetable oils and other food grade materials.
- We view ourselves as an intrinsic part of
- 6 the transportation system, largely because terminals
- 7 provide essential logistics that enable inner
- 8 connections between different modes of
- ⁹ transportation, including from different modes to and
- 10 from rail in commerce.
- 11 This is obviously a very complicated set
- of issues. We have heard over the last day and a
- half many, many different aspects that the Board is
- taking under consideration. My remarks and the
- 15 position of the ILTA is very focused on one very
- 16 specific issue. And that has to do with the
- 17 responsibility for demurrage charges. Our issue
- actually also differs a bit from some of the other
- 19 testimony that you've heard because it does not arise
- 20 from the last 18 months in precision railroad
- 21 modifications and innovations, but rather back to an
- 22 STB decision in 2014 which held that the railroads

- were able to seek compensation for demurrage from
- ² consignees rather than solely from shippers.
- While it is not a perfect analogy -- and
- 4 you've got my written testimony. I thought a little
- 5 bit about how to be a little less dry than the
- 6 written testimony, so forgive me for using an
- analogy, it is not a perfect analogy but what comes
- 8 to mind is many states will tax tobacco because they
- 9 want to incentivize people to not expose themselves
- 10 to health risks.
- And we have a public shared goal of
- increasing public health. In this situation we have
- a shared goal -- all of us, the terminals, the
- railroads, all of the shippers -- we have a shared
- 15 goal of having the most efficient productive system
- possible.
- In the case of tobacco, we disincentivize
- the public health consequences, the illness, by
- 19 taxing the direct tobacco product, so the user of
- 20 that product receives the tax. If we were to take
- the kind of analogy to what we're seeing in the
- terminal business, it would be as if we were taxing

Page 773 people for breathing in secondhand smoke. 2 suppose that that could work through peer pressure 3 that you could then incentivize those secondhand 4 smoke breathing individuals to go to the smokers and 5 ask them to stop smoking, but it would be an awfully 6 indirect way to go about disincentivizing smoking. 7 In just the same way, by charging 8 demurrage fees to the consignees rather than the shippers, you are divorcing the action from the 10 responsibility. And for taxation to work, or any 11 kind of disincentive charges, if you ask any 12 economist, you have to be attaching that taxation or 13 that fee to the behavior that you want to avoid. 14 Terminals are not customers of the 15 railroads, they have no direct contract or service agreement with the railroads, instead we share 16 17 customers. And those customers have contracts with 18 the terminal to provide a fixed volume storage and a 19 rated capacity to load and unload railcars for those 20 accounts. 21 While terminal operator service agents for 22 their customers in directing railcar activity at the

- terminal, they operate at the behest of their
- 2 customers when placing cars. Terminal operators do
- not own the products, do not initiate the shipments
- 4 and do not schedule receipts.
- We believe that the rule in 2014 had this
- 6 effect as a purely unintended consequence, but by
- 7 creating the ability for railroads to seek
- 8 compensation for demurrage from terminals or other
- 9 consignees, it severely weakens the intention of what
- demurrage is about and the kind of behavior it is
- meant to encourage and the kind it is meant to
- discourage.
- In the last 5 years we've seen the
- 14 situation become increasingly untenable for terminal
- operators. In its 2014 comments, ILTA noted to the
- 16 STB during the rule-making process that this rule
- would virtually guarantee constant disputes and
- endless litigation on behalf of terminals and
- 19 railroads.
- 20 And in fact, that situation has come to
- 21 pass. Railroads and terminal operators are
- increasingly involved in litigation over payment for

- demurrage incurred on shipper's railcars on their
- 2 behalf.
- Most terminals do include clauses in their
- 4 contracts requiring that shippers would pay any
- 5 demurrage fees that were incurred by no fault of the
- 6 terminal operators. However in practice, terminal
- operators often find that they are unable to just
- 8 verify the basic validity of the demurrage charges
- 9 levied on them by the railroad.
- So, because of the lack of visibility, the
- lack of transparency in the information provided by
- 12 the railroads, even under the theory of the case that
- we could pass on those charges to the shipper in
- 14 practice, it does not prove workable.
- 15 The demurrage invoices provided by the
- 16 railroads often include railcars related to numerous
- 17 shippers. The limited detail makes it difficult or
- sometimes impossible to determine which specific
- 19 railcars and shippers were at issue in each case of
- demurrage.
- In many cases railroads have not been able
- 22 to provide further substantiation when the charges

- 1 have been challenged and terminal operators have been
- forced to establish and maintain management systems
- 3 that are in many ways duplicative of existing
- 4 railroad systems to track railcar activity through
- 5 their facilities to attempt proper valuation of the
- 6 demurrage charges.
- And this has, of course, resulted in some
- 8 considerable administrative burdens. The absurdity
- 9 of treating terminals as if they were in some sense
- 10 aggregate shippers, is perhaps to my mind, best
- 11 encapsulated in the dilemma over free days credits
- 12 that are assigned by the railroads.
- So, confusion arises because the railroad
- will aggregate the 3 day credits across multiple
- 15 shippers that do business at that terminal and then
- leave it to the terminal to decide how to them pass
- on, assign those credits. For the terminal operator
- this creates a very difficult dilemma. Allocating
- 19 the credits between shippers is impractical, first in
- 20 many cases, because it lacks the detail that we would
- need to disaggregate and assign those credits onward
- 22 to the shippers.

Page 777 Even more problematic, even if we could, 2 to be fully transparent to the shippers, we would 3 need to provide documentation explaining how the 4 allocation of the credits fell across the entire 5 transactions on the terminal property which would 6 mean disclosing proprietary information. 7 Conversely, if the terminal decides that 8 this isn't trackable and not possible, it's arguable that we are denying a benefit to the shippers that is 10 owed to them under their contracts with the 11 railroads. 12 ILTA members have been actively pursuing 13 resolution of these challenges associated with 14 demurrage through outreach both to our shipping 15 customers and to the railroads. In some cases, 16 shippers have refused to accept demurrage charges, 17 citing the 2014 rule. In some cases, the railroads 18 have also cited the 2014 rule saying that they have 19 to charge the terminals due to the rule. 20 And we are left unfortunately, having 21 pursued what we believe is all other recourse in 22 negotiation and outreach to partners, no other

Page 778 recourse but to come back to the STB and ask for a 2 revision to the ruling. 3 Going forward, even if the railcars -- I'm 4 sorry, the railroads -- were able to provide enough 5 documentation to justify demurrage charges, we think 6 that the 2014 ruling had again, an unintended 7 consequence of creating an unwarranted expectation 8 that terminals would be the mediators on demurrage 9 between railroads and shippers. 10 So, again, we thank you for the 11 opportunity to be here. It is a critically important 12 issue to our industry, and we ask that the STB 13 explore ways to amend the 2014 ruling and remove the 14 option of direct billing of demurrage charges to 15 consignees such as terminals. Thank you very much. 16 CHAIRMAN BEGEMAN: Thank you, Kathryn. 17 Lowell? 18 MR. RANDEL: Thank you Madame Chairman. Ι 19 appreciate the opportunity to be here. My name is 20 Lowell Randel, I'm with the International Association 21 of Refrigerated Warehouses, and we really appreciate 22 the opportunity to speak at this hearing and the fact

- that you're holding it and recognizing that there is
- 2 a significant challenge facing the industry right now
- 3 and I want to associate myself with the two other
- 4 panelists, and really echo a lot of the things that
- 5 they've been talking about.
- 6 But before I go into that, just a little
- ⁷ bit about who we are. We're a third-party logistics
- 8 member in the temperature-controlled space. So,
- 9 these would be refrigerated warehouses that are
- third-party, so we're not owning any of the product,
- so much like the terminals or many of the IWLA's
- members as well. We're in that third-party
- 13 logistics space, so we don't have the control that's
- been talked about already on the panel.
- So, we feel like we're uniquely positioned
- and uniquely disadvantaged and part of that does stem
- 17 from the 2014 ruling, so we would wholeheartedly
- 18 concur that it is very appropriate to reconsider
- 19 those policies and some of the unintended
- 20 consequences and see if there's a way to more
- equitably look at demurrage liability, because we do
- 22 feel like our industry and the third-party logistics

- 1 providers in general, are being disadvantaged and
- ² specifically so.
- But rail, it's an important option for our
- 4 members and we just did a recent survey of rail
- 5 utilization in our industry. About two-thirds of
- 6 our member facilities have functional rail spurs and
- 7 rail access. That's actually down, so when we
- 8 commented during the 2012 through '14 process on the
- 9 previous ruling, I think that number was about 80%.
- We're starting to see members weigh out, "does rail
- make sense for our facility?" And demurrage is one of
- 12 the driving factors.
- Now, obviously, some of it is customer
- base and market conditions, but we're seeing overall
- 15 fairly low satisfaction rates with the rail service
- 16 and it's becoming a significant challenge for our
- members.
- 18 All the while we recognize that rail is
- 19 good for the environment, there's fuel efficiencies,
- infrastructure benefits, but demurrage is limiting
- our ability to take advantage of those benefits.
- Just an example from one of our larger

- 1 members, Americold Logistics. They've got 70 sites
- ² across the U.S. that have rail access and that has
- 3 represented about 4,800 railcars so far in 2019.
- 4 Over the past 3 years their demurrage charges have
- 5 gone through the roof.
- We're talking millions of dollars just for
- ⁷ that one company alone and you know, as has been
- 8 discussed, the dispute resolution process needs
- 9 reform as well because they tell me they would need
- 10 full-time people just to deal with processing
- demurrage disputes.
- So, again, we really applaud the STB for
- 13 holding this hearing. We think that, again,
- revisiting the 2014 decision is one distinct issue
- 15 that we would recommend that you take on. But we
- also agree with the panelist, with Steve's suggestion
- on actual placement for third-party providers such
- 18 as our members, actual placement is when we have
- 19 control over the situation.
- And so, to place that liability on us when
- we don't really have control over the situation does
- 22 not appear to be equitable and is disadvantaging our

Page 782 membership. Bunching has been talked about a lot, so 2 I don't want to go over that too much more. But just 3 to reiterate, that is where our members tell us is 4 the biggest culprit when it comes to demurrage. 5 They don't think it's a warehouse capacity 6 problem in large part, it's really demurrage is the 7 largest contributor. Our members try to plan out 8 labor very carefully and when cars are inconsistently placed, we've got lots of labor and no 10 cars, or conversely, sometimes there's lots of cars 11 and you know, inconsistent delivery means we may not have the labor available because there's too many 12 13 cars there. 14 And we don't have control over the 15 bunching so this idea of how do we assess that 16 liability again is something we really believe needs 17 to be addressed. I see that I'm out of time, so I 18 will just close by reiterating actual placement, 19 revisiting demurrage liability, finding ways to 20 assess that liability when bunching occurs and 21 credits have been discussed and improving the 22 dispute resolution process. We think that those are

Page 783 1 some ways that we can improve the situation. 2 COMMISSIONER OBERMAN: Just a couple of 3 questions. Kathryn, you said that some railroads say 4 they're required to bill demurrage to your people. 5 MS. CLAY: Yes. 6 COMMISSIONER OBERMAN: Can you tell us 7 which railroads take that position? 8 MS. CLAY: Yes, so Kinder Morgan is the 9 company that's had that happen, and you heard my --10 actually my Board member, Josh Etzel spoke earlier, 11 yes. 12 COMMISSIONER OBERMAN: So, that's what you 13 had in mind, CN's position? 14 MS. CLAY: Yeah. 15 COMMISSIONER OBERMAN: Well I understood 16 him to say CN's position is they're required to bill 17 demurrage to somebody, but you think their position 18 is they're required to bill it to the terminal? 19 I believe we can clarify. MS. CLAY: 20 COMMISSIONER OBERMAN: Well, we're going 21 to clarify it with CN in a minute. 22 MS. CLAY: That is my understanding.

Page 784 1 COMMISSIONER OBERMAN: And they find this 2 requirement somewhere in 707 or do they find it in 3 the statute, or did they find it in the either? 4 MS. CLAY: I guess I can't really speak to 5 their, right --6 COMMISSIONER OBERMAN: I mean what's the 7 stated justification? I mean I'm just sort of 8 puzzled by. MS. CLAY: That is the 2014. 10 COMMISSIONER OBERMAN: And it's that rule. 11 MS. CLAY: Yes, exactly. 12 COMMISSIONER OBERMAN: That they say 13 somehow. 14 MS. CLAY: Yes. 15 COMMISSIONER OBERMAN: Do they say we 16 can't bill the shipper? MS. CLAY: You know, again, I wasn't party 17 18 to that conversation. My understanding is that they 19 pointed to the 2014 rule and said that their 20 interpretation was that they must bill the 21 consignee, if there was a consignee, they must bill a 22 consignee.

Page 785 COMMISSIONER OBERMAN: And do you all, let 2 me ask you this Lowell, Maricold, they're all over 3 the country, so this multi-million-dollar demurrage 4 charge, is that -- that's more than one railroad, I 5 take it? 6 MR. RANDEL: Yes, sir. 7 COMMISSIONER OBERMAN: It's basically 8 everybody? MR. RANDEL: Yes, sir. 10 COMMISSIONER OBERMAN: And do I understand 11 for intermediaries the problem is almost entirely 12 bunching? 13 MR. RANDEL: That's what our members 14 report to us that bunching is the major contributor. 15 COMMISSIONER OBERMAN: Do you agree? 16 MS. CLAY: You know for us it's a little 17 different. We really are agnostic to the cause of 18 the demurrage because our issue is that we are not 19 the appropriate party to be in the dialogue about 20 the cause of demurrage. We are not a party to a 21 contract with the railroad and so whatever the cause 22 of demurrage is something to be dealt with between

- $^{
 m l}$ either the railroad and the shipper or if the
- 2 shipper says it was because of a fault at the
- 3 terminal, a subsequent conversation after the
- 4 railroad and shipper have ironed out their
- 5 differences, a subsequent conversation should then
- 6 occur between the shipper and the terminal, that's
- 7 when we would be party to any discussion of
- 8 demurrage.
- 9 COMMISSIONER OBERMAN: Well, one of the
- 10 reasons I'm trying to get at this, you've heard a lot
- of conversation, I assume you've been here about the
- whole concept of demurrage being an incentive to
- avoid demurrage, so it's -- you all say you don't
- 14 control it, it's not a question if you're not having
- 15 enough track space to take cars in I take it, is that
- 16 a fair statement? Your members, Steve?
- MR. DEHAAN: Our members have between 3
- 18 and 25 doors, a lot of them are smaller, 3 to 5
- doors, and so they don't have track space. They're
- 20 just about all in the industrial parks and so there's
- 21 no way around it.
- 22 COMMISSONER OBERMAN: So, and are they

- 1 getting billed demurrage because more cars are coming
- in than they have space to take them in?
- MR. DEHAAN: Yes, and the answer to your
- 4 question I see it as bunching, scheduling of days and
- 5 missing of those days. I mean it's not like I mean,
- 6 if I have 5 doors and I've got 15 cars, I would like
- ⁷ to get an extra service day.
- 8 So, I call the yard and I see if I can't
- 9 get it set up and a lot of times, we get a yes, and
- 10 then we come to our next switch day, there's no
- switch. They didn't service us, okay? Then about 3
- weeks later you get a demurrage bill for the switch
- that did not happen and you're getting it for all 15
- 14 cars. And it's amazing the amount of work we put
- 15 into making sure that we get it right and then a
- third of the time it comes out wrong.
- 17 And here's the real kicker -- you get a
- demurrage bill this week. You try to solve your
- 19 issues, you get a demurrage bill next week, you try
- 20 to solve your problems, the third time you get it,
- it's like what is going on here. It shouldn't be
- more than that, but 38% of the time you're getting

- demurrage bills.
- 2 COMMISSIONER OBERMAN: Let me see if I
- 3 understand the difference between the intermediaries
- 4 and a shipper or a receiver that's the end user.
- 5 Your customers, you're not ordering cars from your
- 6 customers, your customers are shipping to you, and
- ⁷ they control the rate at which the cars are shipped.
- So, you have nothing -- well, when you
- 9 have a deal with your customers, that they say well
- 10 we're going to ship you 10 cars, are you in a
- position to say to them, well we only have 5 doors,
- don't ship us 10 cars, or how does that work?
- MR. DEHAAN: That is an absolute
- conversation that they have, but again, we've had
- shippers that would send two cars every other day
- because we have 3 service days, we've got 5 doors,
- we've got other customers coming in of course. They
- think that they're mitigating for us and helping our
- 19 members to not incur these kinds of things and then
- they might get bunched in the scenario that I'm
- thinking of, they delivered, they shipped two a day.
- I don't understand this. And then they

- delivered 9, not 10, 9.
- 2 COMMISSIONER OBERMAN: One was wandering
- 3 around. I'm -- so you do have some control in the
- 4 sense that between you and your customers you can
- 5 make arrangements with them based on the capacity of
- 6 your facility about how much and at what frequency
- 7 they should ship to you? That part you do have some
- 8 control over when you make your deals.
- 9 MR. DEHAAN: Somewhat. It depends how
- 10 many customers you have in the building. Most of our
- buildings have 10 to 30 customers in them, so
- depending on how many are shipping via rail, we may
- or may not know how many cars are coming. We know
- because of the system, the system will tell us, but
- we don't necessarily know because of the customers,
- because again they're under constraints on their end
- 17 to get their cars loaded and released.
- 18 That's why I --
- 19 COMMISSIONER OBERMAN: Don't you have some
- ability to restrain your customers as to how much
- they ship to you so that they don't -- so, if the
- railroad were operating perfectly, you don't want

Page 790 1 them shipping more than you can handle it seems to 2 I'm trying to understand the business. me. 3 MS. CLAY: If I could try to add --MR. DEHAAN: For all those customers. 5 I would say exactly, so limited MS. CLAY: 6 So, for example, so pre-2014, it would be 7 -- it could happen that a customer that normally 8 loaded 3 railcars a day might, because of business 9 reasons, having a you know, particular client or 10 deadline, wanting extra surety might order 6 cars to 11 have 3 just in case. 12 That shipper could direct that all of 13 those cars, the 3 plus the addition 3, would all be directed to come to the terminal, the terminal would 14 15 not be able to prevent that and so if that shipper 16 didn't use those cars, there would be demurrage fees. 17 Now, pre-2014, in this scenario, that 18 could be perfectly valid and welcomed by the shipper. 19 They would take that as a business cost that they 20 took on intentionally because they wanted that 21 certainty. 22 Post-2014, what's complicated is that now

Page 791 that shipper hypothetically could have that extra 2 resilience or that certainty from having additional 3 cars, but not have any obligation to pay demurrage because the terminal would cover it. 5 COMMISSIONER OBERMAN: So, they have no 6 incentive to not do that. 7 MS. CLAY: Exactly right. COMMISSIONER OBERMAN: So, the incentive 9 part of the demurrage system is --10 MS. CLAY: It breaks down fundamentally. 11 COMMISSIONER OBERMAN: It's fundamentally 12 broken down. 13 MS. CLAY: Yes. 14 COMMISSIONER OBERMAN: And you're saying 15 previously, even if the shipper was going to ship 16 more capacity than your terminal had, you didn't care 17 because it was a cost they chose to absorb. 18 MS. CLAY: Absolutely. 19 COMMISSIONER OBERMAN: So, that it okay, 20 so since 2014, have you tried to change your 21 arrangements with your shippers to say don't do that

anymore?

22

Page 792 1 MS. CLAY: Yes, and there are clauses in 2 the contracts that stipulate that, but in practice, 3 both because we lack the detailed information to make clear that that charge belongs to that shipper, of 5 the many shippers that might be on the terminal. Or, 6 if we have data, we may not be able to show it all 7 because of confidentiality. Most of the time our 8 members say that they are not getting sufficient data from the railroads which was causing them to have to 10 set up their own management systems that parallel the 11 railroads to try to decipher which cars had demurrage 12 and to each shipper. 13 COMMISSIONER OBERMAN: Could your problems be solved if the railroads gave you all the data that 15 a shipper would get when they want to fight a 16 demurrage charge? 17 MS. CLAY: It wouldn't because we -because the data would all be aggregated. 18 19 COMMISSIONER OBERMAN: Oh, they wouldn't 20 break it down as to which of your customers is 21 responsible. 22 MS. CLAY: So, it cuts both ways

- unfortunately. If we had the data aggregated, we're
- 2 not able to break it apart and attribute it
- 3 appropriately. If it's broken down, to be able to
- 4 show our shippers what we're charging them to make
- our charges to them transparent, we would have to
- 6 show them all of that information and so then we are
- 7 violating proprietary business information. So, it
- 8 cuts us either way.
- 9 COMMISSIONER OBERMAN: Is there any other
- 10 railroad besides CN that any of the three of you know
- of that takes a position that they are forced under
- 12 the law to bill you, or is that some unique idea that
- 13 CN came up with?
- MR. DEHAAN: I don't know that, but 707
- 15 allows for the consignee to be billed, it allows them
- 16 to be billed even though they don't have a contract
- with the railroad.
- COMMISSIONER OBERMAN: Well, it may or may
- 19 not allow -- what it allows is something I think
- that's an open question, particularly if there's no
- showing of causation but that's a separate point.
- 22 But I'm just trying to figure out if railroads are

- doing it because they think they can, or if they're
- doing it because they claim they're required to, that
- 3 seems to be the difference.
- 4 CN takes that position you say and I think
- 5 they have from what I understand, but the rest
- 6 nobody's told you that?
- 7 MS. CLAY: No.
- 8 MR. DEHAAN: It comes down to customer
- 9 relations. We're not their customer, so we don't
- 10 have a relationship. The shipper is the customer, so
- 11 rather than confronting the customer, it's a lot
- easier to confront the receiver.
- 13 COMMISSIONER OBERMAN: Got it. Thank you.
- MR. DEHAAN: And then we have to confront
- 15 the customer.
- 16 CHAIRMAN BEGEMAN: I'll be quick,
- unfortunately I left the 2014 decision on my desk
- with all of the stuff I was looking over, I'm trying
- 19 to quickly pull it up on my phone here. So,
- obviously my colleagues are not at fault or guilty
- for the Board's good intentions, and I can assure you
- 22 the Board had good intentions.

Page 795 Actually I'm reading quickly the summary 2 and it says that the Board is adopting final rules 3 establishing that a person receiving railcars from a rail carrier for loading or unloading, who detains 5 the cars beyond the "free time" provided in the 6 carrier's tariff, will generally be responsible for 7 paying demurrage. So, I'm wondering now that there is no 9 free time, whether or not -- I just thought I'd throw 10 that out there, I really, you know, Kathryn, we've 11 had the chance to talk earlier this year. Steve, 12 I'm sorry that you don't feel at all compassionate 13 about these issues, I wish you kind of hopped to it on the second day of the hearing here and get us back 15 to where we needed to be. 16 You know, look, I am sympathetic to what 17 you and your colleagues and Joshua, others have 18 shared with us and I'm just trying to if the Board's 19 decision were to be reversed, and again, you know, 20 the Board acted because we were trying to resolve a 21 dispute between the two Circuit Courts, so we were 22 again doing something that we needed to do.

Page 796 But, so if -- I'm not sure, are you asking 2 for the decision to be entirely reversed or to be 3 modified, and upon answering that question I'm 4 curious to know whether or not, so instead of the 5 carrier charging a third-party receiver, if you 6 will, demurrage, it would go to your customer who is 7 the actual shipper, but someone that does have -- the 8 relationship is between the railroad and that shipper, but yet there are times when you are 10 responsible, correct? 11 So, now that this is good and confused, 12 help me understand. 13 MS. CLAY: Sure, so and thank you and I 14 appreciate the good intentions of the Board and 15 believe that this was an unintended consequence from 16 trying to fix another problem, you know, I'm not a 17 lawyer. 18 CHAIRMAN BEGEMAN: That's okay. 19 MS. CLAY: But I do understand --20 CHAIRMAN BEGEMAN: The majority of us up 21 here aren't. 22 COMMISSIONER OBERMAN: She tells me that

- 1 all the time.
- MS. CLAY: I would welcome, ILTA and our
- members would welcome the opportunity to try to work
- 4 with the Board in finding language that could revisit
- 5 that earlier problem, ensure that that is not
- 6 disrupted, that there's a solution that remains in
- 7 place for that, but closes this gap, this uncertainty
- 8 that was created unintentionally.
- 9 So, I believe that there will be a way
- 10 that we could revise the rule so that the original
- intent would be met, but to clarify that this state
- of affairs was not what the Board envisioned.
- The practice before the 2014 rule, you
- know, we would also welcome, you know maybe it would
- 15 be appropriate to have comments from shippers. The
- terminal industry's position is that things worked
- well, back before 2014.
- 18 That on a case-by-case basis, customers
- 19 would raise concerns and say I was charged demurrage
- 20 by the railroad, in fact it was because you had a
- labor issue or an equipment issue that then caused me
- 22 to be late in loading my cars.

Page 798 We believe that that worked well so that 2 the shipper and the railroad had a contractual 3 relationship. They would agree on how the demurrage 4 would be attributed and then the shipper, with their 5 contractual relationship with the terminal, would 6 then in the second step, come to a resolution. So, I 7 think it would be prudent for shippers to have an 8 opportunity to comment on whether the pre-2014 state 9 of affairs was working. 10 My industry would venture that it did work 11 well. 12 COMMISSIONER OBERMAN: Quick question. As 13 I understood 707, it was aimed at making sure you 14 didn't get billed if you didn't have notice that 15 there was a demurrage tariff, that the distinction 16 was whether you could be billed if you had no notice, 17 that was the Circuit dispute. 18 You don't want to get rid of the 19 requirement that you can't get billed if you have no 20 notice? 21 MS. CLAY: That's right, exactly. 22 COMMISSIONER OBERMAN: You'd like to keep

- 1 that part in, okay.
- MS. CLAY: It's the consignee -- yes.
- 3 COMMISSIONER OBERMAN: I just wanted to
- 4 put that on the record because the notice part was
- 5 the benefit, the terminal.
- 6 MS. CLAY: Right.
- 7 CHAIRMAN BEGEMAN: Thank you.
- 9 wondering, can you -- you said it would be prudent
- 10 for the Board to get comment on the shipper
- 11 perspective, can you preview in your view what you
- think we might hear?
- MS. CLAY: My --
- 14 CHAIRMAN BEGEMAN: Charge us.
- VICE CHAIRMAN FUCHS: Yeah, please.
- MS. CLAY: You know, my understanding, my
- 17 expectation would be that you would receive comments
- 18 that that worked well, because they had a contract
- 19 and there were provisions in the contract saying
- that we have a duty of service that we were, and our
- 21 members were liable to provide service and make the
- 22 shippers whole if we caused demurrage charges.

- So, I expect that there would be you know,
- that the shipping community would welcome a return to
- 3 that. I know that our terminal members that have
- 4 gone to their shippers and have asked them, would
- 5 you go with us to the railroad and ask them to return
- 6 to the practice of billing directly, when asked have
- 7 been willing to do that.
- 8 So, my expectation is that it would be met
- ⁹ favorably, but since I don't speak for that.
- VICE CHAIRMAN FUCHS: I understand, I just
- wanted a preview, thank you.
- 12 CHAIRMAN BEGEMAN: And Steve, if you could
- make me a little clearer on something. Kathryn, I
- know exactly what you're saying. I mean I understand
- 15 your request of the Board. Steve, what I'm a bit
- 16 confused on, are you -- you got a lot into the actual
- 17 placement issue, the 48 hours issue, does it all stem
- 18 from the 2014 decision?
- 19 Or is that a different -- were you caught
- up by the 2014 decision, or is your issue separate,
- 21 you always -- you would have received --
- MR. DEHAAN: We were caught up in the 2014

- decision because they were able to bill the
- consignee, and now we're caught up in the issue of
- 3 the --
- 4 CHAIRMAN BEGEMAN: The impact.
- MR. DEHAAN: The issues and the lack of
- 6 service.
- 7 CHAIRMAN BEGEMAN: Thank you for
- 8 clarifying.
- 9 COMMISSIONER OBERMAN: Just one further
- 10 clarification Steve, you said 48 business hours, you
- don't mean 6 8-hour days, do you?
- MR DEHAAN: I mean 5, basically when we
- think of business hours, we think 8 to 5, Monday
- through Friday. Those are business hours, okay.
- Now, I'll be the first one to tell you our members
- work well outside of that, they would be
- 17 accommodating, but as far as the rule goes, they
- think that it has to be definitive. If we leave it
- 19 squishy, then it will get really squishy. We can
- always go to the railroad and say, hey, will you drop
- cars on Friday, we'll unload them on Saturday.
- When you bring our load in on Monday you

- can pick up those cars, great.
- 2 COMMISSIONER OBERMAN: 48 hours, when
- you're urging that that's what we do, you don't mean
- 4 48 continuous hours, you mean --
- MR. DEHAAN: I mean 48 continuous hours,
- 6 yes, I do.
- 7 COMMISSIONER OBERMAN: Well you said 48
- 8 business hours.
- 9 MR. DEHAAN: Two days.
- 10 COMMISSIONER OBERMAN: But you're talking
- 11 about 2 days.
- MR. DEHAAN: Two business days, Monday and
- 13 Tuesday.
- 14 COMMISSIONER OBERMAN: Okay.
- MR. DEHAAN: Bring cars in on Monday,
- we'll have them ready for you Wednesday at the same
- 17 time.
- 18 COMMISSIONER OBERMAN: I just wanted to be
- 19 clear, thank you.
- MR. DEHAAN: Saturday and Sunday don't
- 21 count unless you make an agreement.
- 22 VICE CHAIRMAN FUCHS: Two quick ones for

- 1 me. The date -- actually actual placement idea, if I
- 2 could hone-in on that. I think Lowell and Steve,
- you said that it should just be an actual placement.
- 4 You know there are scenarios when something is in
- 5 kind of constructive placement and we've heard that a
- 6 receiver, maybe not your members, but a receiver, you
- 7 know, if that person were not to order the switch or
- get a switch then, they would effectively be
- 9 getting, you know, anchoring car storage.
- 10 Do you know what I mean? Within a
- 11 railroad yard, so if we were just to measure on
- 12 actual placement, would that create a disincentive
- 13 for cars that were placed -- that were in
- constructive placement to you know, basically get,
- 15 you know, released to a receiver's facility, such
- that the person would basically be getting automatic
- 17 free storage?
- MR. DEHAAN: In our particular case,
- 19 because our guys don't get paid unless they unload
- that car, they don't want any of them in
- 21 constructive, they want them all at the door as soon
- 22 as they can get them to the door.

Page 804 1 VICE CHAIRMAN FUCHS: So, as soon as 2 they're constructive placement you want them in. 3 MR. DEHAAN: It's just that simple, but that's a different scenario with 3PL. 5 VICE CHAIRMAN FUCHS: So, when you're 6 saying actual placement should be the -- when you say 7 actual placement should be the standard, you are 8 saying that in the 3PL world, there's such a great incentive for things to get out of constructive 10 placement, the measurement of constructive placement 11 is just not worth it? 12 MR. DEHAAN: Totally. 13 VICE CHAIRMAN FUCHS: Okay. And then the time stamp idea. You know you all work with both 15 rail and truck. Is it your experience that trucking 16 companies provide, you know, good time stamps, date 17 and time in a way that's superior to the rail 18 industry? 19 When they serve your facilities? 20 MR. DEHAAN: We work with large trucking 21 We work with a lot of brokerage firms. firms. 22 VICE CHAIRMAN FUCHS: Yeah.

Page 805 MR. DEHAAN: You know, I got into our 2 offices, they have all the screens, they're watching 3 all the trucks all the time. VICE CHAIRMAN FUCHS: Sure. 5 MR. DEHAAN: If you go to a large trucking 6 company, you go into their customer service centers. 7 VICE CHAIRMAN FUCHS: Right. MR. DEHAAN: They got the big boards up, 9 they're watching every truck. 10 VICE CHAIRMAN FUCHS: Right. 11 MR. DEHAAN: They know which trucks are 12 falling behind, et cetera, and they're out there and 13 they're responsible for certain trucks and they're 14 communicating all the time what's going on and yes, 15 they stay in great communication. 16 And so, it's usually with whoever's in 17 charge of your dock doors on the trucking side. On 18 the rail side, we have some of that information 19 because we go in and look at the system. 20 VICE CHAIRMAN FUCHS: Right. 21 MR. DEHAAN: And we look at it and some of 22 our guys, because of the logging, take screen prints

- all the time as to what's in the queue, where it's in
- the queue, et cetera and they're doing that. And
- 3 then all of a sudden it gets to the yard and all the
- 4 ETA's become suggestions, not real and the service
- 5 days don't work and you don't get switched and all of
- 6 a sudden it falls apart.
- 7 It's all for the most part, the biggest
- 8 issues that we have are the last mile.
- 9 VICE CHAIRMAN FUCHS: That's what we were
- 10 hearing over and over and again.
- MR. DEHAAN: So, that's why we keep saying
- 12 let's not do this constructive stuff because it's in
- the last mile and they think they've delivered when
- they got it to the yard.
- VICE CHAIRMAN FUCHS: But specifically, on
- the time stamp issue, you're talking about the time
- 17 stamp of when cars are spotted, you know, that's what
- 18 you want and for the equivalent process within the
- 19 trucking industry, you've got all that information.
- In the rail industry, that's what's lacking, is that
- 21 accurate? You don't think it's accurate?
- MR. RANDEL: Yeah, I would agree.

Page 807 VICE CHAIRMAN FUCHS: Okay, thank you. 2 CHAIRMAN BEGEMAN: Alright, thank you very 3 Greatly appreciated. Panel XI, I'm sorry, much. 4 yes, XI is next, BNSF, Canadian Pacific, Canadian 5 National. 6 Panel XI 7 CHAIRMAN BEGEMAN: Okay, Panel X, Jill, 8 we'll start with you. I'm sorry XI, Panel XI. MS. MULLIGAN: Thank you all for the 10 opportunity to be here today. We've been carefully 11 reviewing customer comments and also your own lines 12 of inquiry throughout the proceeding. Given the 13 significant amount of testimony so far, I will limit 14 my comments to a few key areas of BNSF's demurrage 15 program as well as the efforts we undertake with our 16 customers in this important area. 17 BNSF's core focus, second only to 18 achieving our safety vision, is to deliver for our 19 customers on the operational and competitive 20 potential of our rail network. That means maximizing 21 the efficient use of railroad, line haul and terminal 22 capacity and equipment, ensuring that the network can

- 1 function effectively in the interest of all of our
- 2 shippers.
- As detailed in our written comments, BNSF
- 4 puts significant energy and resources into assuring
- 5 the appropriate and tailored use of demurrage as a
- 6 tool to support that goal.
- Demurrage is not treated as a revenue
- 8 generating opportunity at BNSF, simply put, our goal
- 9 is to collect less demurrage from our customers.
- 10 Every demurrage bill issued represents a missed
- opportunity to obtain operational efficiency in the
- 12 loading and unloading process that's important for
- 13 all our customers who rely on our network.
- In that same regard, when delays or other
- inefficiencies are caused by BNSF, our consistent
- 16 practice is to eliminate the demurrage charges for
- impacted shippers, which creates incentives for BNSF
- 18 to act efficiently ourselves, or bear the associated
- 19 costs with that.
- 20 As preparation for this testimony, I
- 21 reviewed the day-to-day efforts that our customer
- 22 service and demurrage professionals put into

- 1 achieving that goal. BNSF provides a significant
- 2 number of tools and communications aimed at allowing
- ³ first greater customer control of pipeline decision-
- 4 making to avoid demurrage in the first place.
- 5 Second, the review of data relating to any
- 6 charges that are incurred, and then finally, clear
- 7 and timely dispute mechanisms. As part of the pre-
- billing process, our demurrage -- and I'm talking
- 9 about pre-billing just to be clear, our demurrage
- 10 team members who are assigned to specific regions and
- 11 fleets of equipment, review estimated demurrage
- 12 charges in light of variability in our service.
- 13 That can include things like our current
- 14 flooding challenges, general metrics of performance
- of our network, like dwell and velocity, performance
- against a car's individual trip plan, local yard
- 17 challenges and missed switches.
- In addition, our customers are able to see
- 19 that same estimated, but not yet billed demurrage and
- 20 communicate with their BNSF marketing representative
- or engage directly with us through our demurrage tool
- 22 about the service challenges they are seeing.

Page 810 That took does contain the information 2 that was discussed on the last panel in terms of 3 times of placement, release, et cetera. This early 4 pre-billing review and customer engagement helps to 5 ensure that bills going out the door do not assign 6 shipper facilities, responsibility for railroad 7 caused events. We are not perfect, however, and have 9 simple to use mechanisms for customers to dispute 10 bills after they are issued, including using that 11 same one-stop demurrage tool to flag charges for 12 dispute and provide additional information that we 13 may not have considered. 14 Our goal is to respond within the next 15 business day and in many cases, we can actually 16 resolve disputes in a few business days. When we 17 can't do so, it's often because of the complexity of 18 the operation or the facility and what we do there is 19 assign a customer a specific representative, a live 20 person within BNSF to work through that. 21 But even before a shipment starts its 22 movement on our network, a BNSF facility can use a

- 1 rail central suite of tools to see all shipments that
- originate or terminate at their facility and they
- 3 can track them across the entire route as they move
- on BNSF's network. This is an important dataset for
- 5 a lot of reasons, but for demurrage purposes, it
- 6 allows a receiver to understand first, the number of
- 7 loaded shipments being ordered into a facility from
- 8 any original on BNSF.
- 9 Second, the number of cars already in
- 10 route to their facility. Third, the number of cars
- that have been constructively placed in the yard
- 12 adjacent to their facility and then finally, those
- 13 cars already sitting on their track.
- With that information, a customer can make
- better pipeline decisions, including whether they
- 16 need to adjust the number of cars being released into
- 17 the system at origin, make requests to divert
- shipments to other facilities, consider modifications
- 19 to the use of their existing track, or consider
- 20 longer term options like alternative storage
- 21 locations.
- I would like to confirm that for all these

- 1 BNSF tools, there's full access for receiver as well
- 2 as our freight-paying shippers. We have many
- 3 receivers who make very effective use of those tools
- 4 to avoid demurrage charges, resulting from imbalances
- between releases at origin and the actual destination
- 6 capacity.
- 7 Behind those tools are also dedicated and
- 8 knowledgeable BNSF team members, engaging directly
- 9 with repeat demurrage customers in a very personal
- 10 way that looks to address situations at their
- 11 facility and their own traffic flows, and outline
- 12 specific ways that they can manage inventories and
- obtain reduced dwell and increase their last mile
- 14 throughput.
- BNSF will continue to develop and
- implement innovative programs, processes and
- 17 technology to support that ongoing dialogue. All
- 18 these efforts ensure that situations that warrant
- demurrage are the ones that are being addressed
- through our billable charges.
- That's important for BNSF because the
- 22 starting point of our partnership with our customers

- is a shared interest in expectation in creating a
- fluid operation at all points in the route of
- movement, including the origin and destination.
- 4 Those assumptions underpin our approach to the
- 5 commercial marketplace.
- 6 When service interruptions occur on our
- network, we react quickly and work hard to restore
- 8 consistent throughput and we see our customers do the
- 9 same things at their facilities. Because of that
- 10 joint interest with our customers and working to
- 11 protect an efficient, reliable and competitive
- 12 service product, the inefficiencies associated with
- disruptions or outlier customer facilities are not
- 14 built into the system as an assumed cost.
- Instead, situation responsive tools, like
- demurrage fees are used to address the outliers, when
- 17 it comes to over-consumption of common rail
- 18 facilities and equipment.
- In conclusion, BNSF takes seriously its
- obligations as a common carrier and our role as a
- 21 business partner to our customers and that informs
- 22 the commercial programs that we implement, including

- demurrage.
- 2 Central to our approach with our customers
- 3 is a common interest in efficiencies that can be
- 4 gained across the entire transportation route,
- 5 including the first and last mile. We appreciate the
- 6 opportunity to share with you all how our demurrage
- 7 program works to support those efforts and we're
- 8 happy to answer questions that you may have, thank
- 9 you.
- 10 CHAIRMAN BEGEMAN: Thank you, Pam?
- MS. ARPIN: Alright good afternoon, and
- thank you for having me, Chairman Begeman, Vice
- 13 Chairman Fuchs and also Commissioner Oberman. I am
- 14 Pam Arpin, and I'm the Assistant Vice President for
- 15 Canadian Pacific Railway and my role is as the -- I
- do all of the work with supplemental activities
- including operational support and invoicing.
- I'm going to focus my comments today on
- 19 pre-invoicing measures with our customers. CP posts
- invoicing measures with our customers, ongoing
- dialogue that we have with our customers to improve
- our services and tools, and lastly facts around

- billing and collections.
- 2 CP would like to start over by reiterating
- 3 comments by CP's CEO, Mr. Keith Creel to the STB on
- ⁴ February 4th, 2019 regarding the demurrage system and
- 5 its importance to the health of the rail network.
- 6 Effective management of railcars is important to
- 7 maintain fluid operation of the national rail network
- 8 as well as the sitings and facilities of rail
- 9 customers, logistics providers, ports and customer
- 10 stations.
- 11 Shippers and receivers are in a unique
- position to coordinate rail shipments to make
- efficient use of railcars and other rail assets,
- 14 including tracking yards. Cars that are not timely
- 15 loaded or unloaded or released, congest tracking
- 16 yards and impact the network's ability to handle the
- 17 customer's next shipment and the ability to serve
- 18 other traffic.
- 19 The rail industry and the United States
- 20 Congress have long recognized demurrage as a
- 21 necessary mechanism to ensure a fluid rail network.
- 22 I'll now talk to our pre-invoicing measures with our

Page 816 1 customers. 2 As described in our May 1st submission for 3 this proceeding, CP has established mechanisms in 4 place intended to ensure that inventory and service 5 performance, including events that impact demurrage 6 and accessorial charges are properly reflected in 7 demurrage and accessorial invoices. These measures include CP's onboarding 9 team -- this is available to new customers to provide 10 onboarding services, including familiarization for 11 our customers around CP's tariffs, how they are 12 applied, and the tools available from our CP portal. 13 CP's local operating planning team -- this 14 team is unique in that they develop local operating 15 plans and build trains for our operating teams based 16 on customer's spot and lift requests. 17 After CP has provided the planned service, 18 CP audits and reports internally, the actual 19 performance against the initial customer request to 20 confirm the level of success delivering to our 21 customer requirements. 22 These reports are produced daily and

- 1 reviewed by all levels of CP's operating team,
- including senior leadership. Our demurrage team also
- 3 uses this information to monitor for exceptions and
- 4 adjust demurrage records as necessary prior to
- 5 invoicing.
- 6 CP's customer station log-in issue
- functionality also allows shippers, receivers and
- 8 third-parties the ability to flag concerns in real
- ⁹ time as they relate to inventory reporting, transit
- 10 and local service. This also, as BN spoke to, looks
- 11 at the facility, the yard and the inbound pipeline in
- 12 terms of information that's available.
- 13 CP provides customers with visibility to
- demurrage days accruing for each car. Concerns
- 15 reported by customers are addressed by CP's customer
- service team and reviewed by our demurrage staff when
- 17 compiling month-end statements.
- Our last item in this area is CP's
- 19 proforma process, also known as pre-invoicing. This
- was established to provide parties receiving a
- demurrage statement, a channel to submit consolidated
- 22 feedback prior to formal invoice issuance.

Page 818 At the end of the month a dedicated CP 2 representative issues a proforma statement to a 3 customer in order to provide an opportunity for A --4 dispute aspects within the statement; B -- for the 5 customer to request further details, or C -- approve 6 the statement. 7 The goal of the process is to attain 8 agreement on the final amount to be invoiced while 9 working collaboratively on mitigation of demurrage 10 and accessorial charges going forward. 11 Next, I'll talk to our post-invoicing 12 measures. Once invoiced, customers may log disputes 13 and raise concerns through the following channels. 14 Disputes may be logged within CP's customer station 15 using the manage invoice tool. CP commits to 16 responding within 15 business days. If CP does not 17 timely respond, CP accepts the dispute as written. 18 Concerns may be raised with a CP inventory 19 control specialist who will work with customers and 20 CP operations in an effort to mitigate systemic 21 events that are leading or could lead to demurrage

22

and/or accessorial charges.

Page 819 Our CP account managers are also another 2 area of escalation. Concerns regarding rates, terms 3 of service, as well as accessorial demurrage 4 invoicing may be raised through this channel. 5 such instances, the account manager will help to 6 facilitate resolution through the appropriate parties 7 within CP. The next area I'll talk about is ongoing 9 dialogue with our customers and stakeholders to 10 improve our services and tools. We at CP, continue 11 to evolve our services and technology through direct 12 dialogue with our customers. The following are 13 examples of CP's efforts to maintain lines of 14 communication with our customers, to improve the 15 customer's experience. 16 The Customer Advisory Council is an 17 initiative started in early 2018 to pull various 18 customers together from all lines of business to 19 discuss fluidity, technology and communication. 20 part of this Customer Advisory Council, CP engages in 21 touch points throughout the year, with specific focus 22 groups led by our customers on key areas to develop a

Page 820 multi-year roadmap around customer experience, so we 2 do have plans in place and a multi-year roadmap that 3 involves technology, communication and service with our customers. 5 Using a third-party, CP also conducts 6 annual customer surveys across our customer base in 7 order to measure customer satisfaction on various 8 elements of our service. We also issue two surveys each year directly around our customer portal, where 10 customers can provide feedback and identify 11 opportunities for improvement. 12 CP engages with customers at industry 13 events as well, this includes, when requested, 14 participating in discussions with shipper 15 organizations on accessorial and demurrage charges. 16 CP's senior management also participates in monthly 17 meetings with the STB to share real time key 18 performance information, supported by operating and 19 performance data and to answer any questions or 20 concerns brought forward by customers to the STB. 21 Of note, while we have received individual 22 feedback on specific customer concerns on our

- invoices, we have received very little feedback on
- our overall accessorial and demurrage program which
- 3 has been largely unchanged since 2015.
- 4 The next area is around billing and
- 5 collections and just to provide some facts in that
- 6 space. Demurrage and accessorial charge revenue does
- 7 not drive CP's financial performance, these revenues
- 8 represent less than 3% of our operating revenue in
- 9 the United States and just over .5% of operating
- 10 revenue for CP as a whole.
- While absolute dollars of billings
- increased in 2018, the increase is not
- disproportionate when looked at as a percentage
- 14 against the total amount of revenue increase over
- 15 this period.
- 16 Furthermore, when you look at CP's
- demurrage and isolation, excluding any container
- storage, while our revenue has increased by
- 19 approximately 280 million dollars from 2016 to 2018,
- our demurrage charges have dropped as a percentage of
- total revenue as well as absolute dollars.
- 22 2016 the revenue was 18.6 million, in 2018

- 1 it was 17.7 million. CP's collection rate when
- 2 comparing billed versus collected on a yearly basis
- has averaged around 90% in 2016 and 2017, and our
- 4 collection rate increased to 94% in 2018.
- 5 CP's percentage of adjusted bills has also
- 6 decreased over the 3-year period as well from 8.9%
- 7 to 6.7%. We believe that the increase in collection
- 8 rate and the decrease in adjusted bills is a
- 9 reflection of improvement CP has made in our
- 10 processes in communicating with customers and in our
- 11 technology. These improvements, supported by our
- people, ensure we are providing accurate invoices to
- our customers.
- We know we're not 100% perfect, and
- 15 therefore as discussed earlier, CP offers further
- opportunities post-invoice for our customers to
- 17 raise concerns. It is CP's perspective that for the
- 18 vast majority of what CP issues for charges, shippers
- 19 and receivers are paying the charges that they deem
- appropriate.
- This is in part due to our robust
- 22 processes for addressing demurrage and accessorial

- 1 concerns and in part due to the benefits of CP's
- 2 maturing PSR program. Our customers have, by and
- ³ large, adapted to PSR. Under PSR, our customers
- 4 enjoy more reliable and predictable service, which in
- 5 turn makes it easier for customers to avoid demurrage
- 6 and accessorial charges.
- 7 It is important to note that CP's
- 8 accessorial and demurrage charges include charges for
- 9 optional services and products and that these are
- 10 value add to our customers. These services and
- 11 products include, for example, container storage.
- 12 Container storage accounts for 29% of CP's demurrage
- 13 revenue in the first quarter of 2019.
- Accordingly, CP cautions against drawing
- 15 negative conclusions from increases in demurrage
- 16 and/or accessorial revenues as they may simply be a
- 17 reflection of the carrier offering a value-add
- service at a competitive price. Additionally, it is
- 19 important to note that CP's demurrage rates do not go
- in one direction only.
- 21 Congress requires that rail carriers
- 22 charge demurrage in order to ensure adequate car

- 1 supply. When demurrage is high and car supply is
- tight, CP may increase demurrage rates in order to
- ³ encourage more efficient use of equipment.
- Conversely, when demand for cars is low
- 5 and supply is adequate, CP may reduce demurrage rates
- 6 as reflected in the data CP provided to the Board on
- ⁷ May 1st.
- 8 In closing, CP believes that it's
- 9 practices around demurrage and accessorial charges
- 10 are balanced and reasonable. We proactively deal
- with issues where we can, and we provide appropriate
- 12 channels for escalation of issues after invoice.
- 13 Furthermore, CP has not had any
- substantial changes to our policy during the period
- 15 in question. It is the responsibility of all parties
- in the supply chain to ensure a fluid network. A
- 17 fluid network ensures that customers receive
- 18 consistent and reliable service that they depend on.
- Demurrage is a critical tool to ensuring
- that all parties in the supply chain behave
- responsibility. As demand for rail services
- increases, CP is investing in its network to meet the

- 1 challenge. However, it is prudent and incumbent on
- 2 CP to make the most of our existing assets.
- In significant part, CP's relentless focus
- 4 on making more efficient use of our existing assets,
- 5 enabled CP to move 219,000 more carloads in 2018 than
- 6 we did in 2016, a 9% increase. Thus, through efforts
- 7 we insured that 219,000 more carloads of various
- 8 commodities were available to fuel the economy.
- 9 This increase has been made possible
- 10 through our operational excellence in precision
- 11 railroading, and by ensuring we have appropriate
- 12 policies in place that incent behavior around asset
- use. We are proud of the work of our over 13,000
- employees, our CP family to accomplish this.
- I would be pleased to take any questions
- 16 you may have.
- 17 CHAIRMAN BEGEMAN: Thank you, Kathy?
- MS. GAINEY: Good afternoon everyone and
- 19 thank you so much for having us today. My name is
- 20 Kathy Gainey and I'm U.S. Regulatory Counsel for CN.
- The U.S. subsidiaries of Canadian National Railway
- 22 Company which is celebrating its 100th year

- 1 anniversary this year.
- 2 CN welcomes the opportunity to testify
- before the Board regarding our demurrage and optional
- 4 services, to discuss CN's policies in this area and
- 5 to answer any questions that the Board may have.
- As with all aspects of CN's business, our
- 7 top priority is operating a safe and efficient rail
- 8 transportation network. Demurrage and optional
- 9 service play an important role in promoting the
- 10 network fluidity and high-quality service that our
- 11 customers expect while provide additional optional
- 12 services that some of our rail customers sometimes
- 13 request.
- I'm pleased to introduce CN's two
- 15 witnesses today. Derek Taylor is CN's Vice
- 16 President, Southern Region. In this role, Mr.
- 17 Taylor is responsible for CN's operations in the
- United States. He oversees CN's efforts in the U.S.
- 19 to maintain network fluidity by reducing cycle times
- 20 for equipment and increasing asset utilization.
- Before beginning his current role in
- 22 August 2018, Mr. Taylor served as General Manager in

- 1 CN's U.S. headquarters in Homewood, Illinois. Derek
- 2 Taylor joined CN in 2000 and he's held positions
- 3 ranging from train master to general superintendent
- 4 across CN's system in both the U.S. and Canada. We
- 5 also have Keith Courtoreille, who is Senior Manager,
- 6 Service Delivery at CN. In this role, Mr.
- 7 Courtoreille leads the Optional Services Team that
- 8 oversees the application of CN's demurrage and
- 9 accessorial service tariffs. Mr. Courtoreille joined
- 10 CN in 2006, and he's served in a variety of roles
- including manager, innovation and strategy, senior
- manager, e-business manager, sales and marketing and
- 13 carload service delivery operations.
- With these introductions, I will turn the
- presentation over to Mr. Taylor.
- MR. TAYLOR: Thanks Kathy, I appreciate
- 17 that. Good afternoon everyone. As Kathy mentioned,
- 18 I'm at CN 19 years, all of which have been in
- operations. I'm here today, I'll explain the
- importance of steadily pursuing efficient rail
- operations to maximize network fluidity under widely
- varying conditions and that's ranging from record-

- 1 breaking cold temperatures to unprecedented flooding
- which some is going on today to searing heat.
- 3 CN railroads are dedicated as safe and
- 4 efficient transportation and meet the needs of our
- 5 rail customers by providing reliable rail service.
- 6 Fluidity is particularly important to CN's U.S.
- 7 operations which are conducted on a largely single
- 8 track network.
- Page 2 will show our 19,500-mile network
- 10 in the U.S. and Canada as well as what commodities CN
- moved in 2018 and where CN traffic goes. Page 3
- 12 reflects CN's ongoing efforts to increase capacity,
- resiliency and network fluidity. These are necessary
- 14 for CN to drive customer service and growth.
- With scheduled railroading is a foundation
- 16 and safety as a core value, CN is focused on reducing
- 17 cycle times, increasing asset utilization, and
- increasing capacity and network fluidity.
- While one aspect of network fluidity
- involves trains operating consistently and on time,
- 21 it is equally important to maximize asset
- 22 utilization of rail-owned cars and private cars on

- the rail network. This is particularly true during
- times of reduced capacity, such as the winter months
- and when maintenance and capital improvements require
- 4 maintenance windows for work blocks, all of which
- 5 require changes to our operations.
- 6 It is also true during times of
- 7 congestion, because such congestion can cause ripple
- 8 effects and require a railroad to stage trains and
- 9 sitings miles away, waiting for the congestion to
- 10 clear to access the yard that's required.
- 11 Slide 4 illustrates that many factors
- impact railcar cycle times which in term impacts
- 13 network fluidity and operational efficiencies. One
- 14 factor is train and track capacities. These
- 15 determine loading capacity and train speed. CN
- invests each year in capital to enable growth. This
- past year CN set a record capital program of 2.9
- billion U.S. dollars in 2019.
- 19 Over the past 2 years, CN would have made
- 20 a capital investment of 5.7 billion U.S. dollars. We
- reinvest 25 cents of every dollar in revenue into our
- 22 network. In 2019, in the U.S. CN investments

- include 190 million dollars in Illinois, to
- 2 strengthen the rail network and across the state to
- boost capacity and network resilience, which totals
- 4 more than 1.3 billion U.S. dollars in Illinois just
- 5 in the past 5 years.
- 6 CN has also invested approximately 120
- 7 million U.S. dollars in Wisconsin this year and we
- 8 will now have passed the threshold of 1 billion U.S.
- 9 dollars in Wisconsin over the past 5 years.
- In addition to investing and maintaining
- 11 train and track capacity, CN also works hard to
- increase asset utilization by encouraging equipment
- to be loaded and unloaded more quickly. When cars
- 14 cycle faster from origin to destination and back to
- 15 the next origin, the same number of cars online could
- move more loads for rail which translates in improved
- 17 network fluidity, by reducing delays from congestion
- of trains and cars in the network.
- 19 CN is fostering resilience to respond more
- ²⁰ quickly to real world disruptions in railroading.
- This includes disruptions caused by severe weather
- 22 that can cause plant closures, equipment failures or

- limit the ability to operate equipment safely.
- 2 Slide 5 is a picture showing some of the
- 3 challenges and operational or operating during severe
- 4 winter conditions. For example, this past year the
- 5 extreme cold temperatures this past winter made
- 6 headlines when in Chicago it was colder, as many of
- you know than parts of the Arctic, the Yukon, or even
- 8 Mars and I've lived through the real polar vortex of
- 9 2013 and 2014 in Wisconsin and Minnesota when I was
- 10 General Manager and it's a tough working environment
- when it's 40 below Fahrenheit outside.
- 12 CN engages with its customers on a regular
- basis to encourage their cooperation in facilitating
- 14 a fluid and efficient rail network. The faster
- 15 customers unload and release equipment to CN, the
- 16 faster that equipment can be returned to the system
- 17 to serve another customer for loading.
- In that regard, an empty load is just as
- 19 important as the load itself. An empty car is the
- 20 next loaded car. By ensuring that those empty cars
- are returned to the system as soon as they are
- 22 available, the entire supply chain benefits. When

Page 832 car cycle time is down, fewer cars online can serve 2 demand, thereby alleviating congestion and increasing 3 capacity. 4 One of the many ways in which CN 5 encourages efficient asset utilization and movement 6 of cars is through demurrage. CN imposes demurrage 7 charges when customers exceed their free time 8 allotted, for loading and unloading the railcars. The purpose of demurrage charges is to 10 incentivize customers and receivers to load and 11 unload equipment quickly. Customers can make 12 decisions to decrease their demurrage charges by 13 configuring their facilities to increase track

16 CN prefers customers and receivers to load

capacity, improving loading or unloading times or

- 17 and unload equipment within the free time rather than
- 18 charging for demurrage. That would mean that CN's
- 19 equipment was moving at maximum efficiency to the
- 20 benefit of all CN customers and receivers across the
- 21 entire supply chain.

operating 7 days per week.

22 Everyone benefits from moving freight more

14

15

- 1 efficiently, not from collecting demurrage from cars
- that are not moving and dwelling in CN's rail yards,
- 3 CN's sitings, or CN's tracks.
- By encouraging efficient use of equipment,
- 5 CN's policies promote commercial fairness to our
- 6 customers. Cars that are occupying space in CN's
- yards or tracks or awaiting loading and unloading at
- 8 a customer facility make it harder for CN to provide
- 9 fluid service and efficient asset distribution to
- 10 other customers who are efficiently loading and
- unloading their cars.
- 12 And the longer that a customer takes to
- unload a CN provided railcar, the longer another
- 14 customer has to wait for that equipment. Policies
- 15 that encourage better asset utilization by
- 16 penalizing delays are fair to the many customers who
- do load and unload equipment efficiently.
- What would be commercially unfair would be
- 19 to let a minority of customers, through their own
- 20 commercial and operating decisions, not to promote
- efficiency at the facility, degrade service to other
- 22 customers and receivers in the broader rail network

- and supply chain.
- The Board has also asked about accessorial
- 3 charges. In general, accessorial charges fall into
- 4 two categories. Most charges are for a menu of
- 5 optional services that customers can request that CN
- 6 provide over and above rail line haul services. For
- 7 example, some of the optional services CN offers
- 8 include inspection services, private railcar storage
- 9 when available and additional switching within the
- 10 gate.
- 11 Many customers choose to perform this work
- themselves or to engage a designated agent to perform
- the services on their behalf. Other customers prefer
- the convenience of CN providing the optional service
- 15 as described in CN's tariffs. Some other accessorial
- 16 charges serve a penalty function similar to demurrage
- and are designed to discourage customers from
- 18 engaging in unsafe practices.
- Safety is CN's core value. Accordingly,
- 20 CN charges customers for unsafe practices such as
- tendering overloaded railcars or for the cost of
- 22 securing railcars leaking hazardous materials or

Page 835 1 dangerous goods. These charges highlight the 2 importance of safety and act as a deterrent to 3 protect the safety of CN employees and adjacent 4 communities near the rail line we operate through. 5 The purpose of these charges is to 6 encourage safe handling practices. In conclusion, CN 7 believes that its customers benefit from CN's 8 approach to demurrage and accessorial charges, which are aimed at providing services to CN's customers 10 that they want and encouraging asset utilization to 11 promote CN's safe and efficient network, thank you. 12 MR. COURTOREILLE: Good afternoon. I am 13 pleased to describe CN's efforts to be transparent when CN administers its optional services tariffs and 15 CN's development of a customer centered focused 16 disputes resolution process. CN has developed 17 tariffs to clearly explain the applicable charges and 18 policies for demurrage and other optional services. 19 The tariff changes are communicated directly via 20 email to customers and receivers to ensure that they 21 are all well notified in advance of upcoming tariff

changes.

22

Page 836 1 In addition, CN's tariffs are available on 2 CN's website through our e-business documents tool. 3 Each tariff version contains a summary page -- tariff 4 version revision, I should add, a summary page, and 5 at the end, clearly identifies each change made in 6 the particular version. 7 In the event that CN becomes aware of a 8 customer or receiver confusion regarding tariff 9 language, the tariff language is reviewed, and CN may 10 include clarifying language or offer specific 11 examples to ensure tariffs are transparent and 12 straightforward in a further revision. 13 CN optional services team works carefully 14 to ensure that demurrage and optional services 15 invoices are correct. Slide 6 provides an overview 16 of CN's invoicing process. Invoices for demurrage or 17 optional services can be system generated. They can 18 also be manually based on employee instruction from 19 our crews. 20 Invoices can be subject to manual review 21 when circumstances suggest further review is 22 appropriate before the invoice goes out. I will add

- that we also have a pre-invoicing process similar to
- 2 CP and where we have active dialogue and discourse
- with customers before invoices are released.
- 4 CN information will review relevant
- 5 information such as contemporaneous crew reports to
- 6 determine whether demurrage charges are appropriate
- before charges are invoiced to customers or
- 8 receivers. If CN personnel determine that the delay
- 9 is attributable to CN, adjustments will be made for
- 10 CN to take responsibility and reduce or cancel the
- 11 invoice.
- I would like to add the last 5 weeks, 80%
- of our customers did not receive a demurrage invoice.
- 14 Slide 7 summarizes CN's robust dispute resolution
- 15 process that is designed to ensure that charges are
- 16 fair, and customers and receivers have an opportunity
- 17 to raise questions about a charge if they have
- questions regarding that charge or believe it to be
- 19 incorrect.
- This informal dispute resolution process
- 21 provides parties responsible for demurrage charges,
- 22 such as customers or receivers, with a full

- opportunity to dispute charges that they believe to
- ² be incorrect.
- Optional services invoiced under CN's
- 4 tariff 9000, including demurrage are covered by CN's
- 5 18, 15, 15, billing and dispute resolution guarantee.
- 6 Under that process, CN commits to invoice customers
- 7 within 18 business days of the service completion day
- 8 as well as 15 business days to respond to filed
- 9 disputes through e-business and 15 business days to
- 10 come back with an answer.
- If CN fails to meet any of those
- deadlines, particular the 18-day invoicing rule, we
- do not charge that customer. If the party
- 14 responsible for the charges disputes the invoice in
- 15 CN's e-bill application within 15 business days, CN
- does commit to respond to the invoice within 15 days.
- 17 If CN does not respond within the 15
- invoice days, CN will accept the dispute as
- 19 registered. On some occasions, a dispute by a
- 20 customer receive timely raises in which to CN timely
- responds, it may take longer to resolve. In all
- 22 cases, CN works with its customers and receivers to

- 1 resolve disputes amicably wherever possible through
- 2 this informal process.
- 3 Keeping CN's tariff 9000, 18, 15, 15, 15
- 4 guarantee requires constant effort from the optional
- 5 services team to promptly issue invoices. We have a
- 6 staff of 12 people that directly review and deal with
- 7 customers on these. They investigate the underlying
- 8 service as well as addressing either issues around
- 9 tariff language and the specifics of data.
- 10 CN views these efforts as part of our
- 11 commitment to provide timely and responsive billing
- 12 to customers and receivers. Because of the detailed
- 13 process CN follows to ensure accuracy in its
- invoicing, it is imperative that customers and
- 15 receivers do their part to promptly dispute invoices
- by bringing any concerns to CN's attention with
- 17 sufficient detail to allow CN to complete a thorough
- 18 review.
- 19 Through CN's informal dispute resolution
- 20 process, it works with customers to understand
- whether any adjustment to the invoice is appropriate,
- 22 such as an issue with CN service. As an example, CN

- 1 customers can request an interplant switch move
- online wherein CN moves cars from one track at a
- 3 customer's facility to another.
- 4 If the actual work was performed and the
- 5 car was placed in the wrong location, the customer
- 6 can let us know and we will correct that invoice.
- 7 While CN accepts responsibility where appropriate,
- 8 under the circumstances of our particular invoice, if
- 9 it is determined that the charge was improperly
- 10 assessed or that CN was somehow responsible for the
- 11 resulting charge, CN's expectation is that customers
- 12 and receivers should accept responsibility and pay
- 13 valid invoices.
- In conclusion, CN has multiple levels of
- 15 processes and people in place to help customers and
- 16 receivers understand CN's demurrage and optional
- services policies, and to provide a fair and
- transparent process for its customers and receivers
- 19 to address any concerns they may have with invoices
- 20 for these charges. Thank you.
- 21 CHAIRMAN BEGEMAN: Thank you, I'll start.
- 22 I actually have a question for the panel. You've

- been sitting through the testimony for the past two
- days like we have. I'd like you to comment on what
- your reaction is to your customers or I'm sure one of
- 4 your customers probably testified given the number,
- 5 do you have any takeaways, any responses, any
- 6 thoughts, any feedback that you would be comfortable
- 7 sharing?
- 8 MS. MULLIGAN: Alphabetically I think I'm
- 9 probably on the hook. You know, I think there's a
- 10 couple things. I think that as we've been here,
- 11 BNSF, we have not had as many specific instances
- 12 brought up about our programs and I think there's a
- part of us that takes comfort in that because I think
- 14 we have a lot of confidence in the processes that we
- 15 put behind our rules.
- We feel our rules are clear and we think
- 17 that the effort that we put behind that to make sure
- that the rules are then applied in the right
- 19 circumstances bears out in terms of our relationship
- 20 with our customers. I think that doesn't mean that
- there aren't some folks who would point to parts of
- 22 rules or have experiences where they would like

- 1 exceptions or greater leeway, but you know, we've
- taken the opportunity as well as listening to the
- 3 customers to talk to some of the customers in the
- 4 room and seek the feedback in terms of what does work
- well for us, what are things where they'd like more
- 6 opportunity to engage with us.
- In general, it's been a good experience to
- 8 hear that. I think that the -- in terms of you know,
- 9 takeaways for what we might do, I think that the --
- we're very curious about where the Board is going to
- 11 go in terms of directions.
- 12 CHAIRMAN BEGEMAN: I bet.
- MS. MULLIGAN: Certainly, and like I said
- we've been listening carefully to questions. I do
- think there will be an opportunity probably in the
- panel and I'll let other people react first, to talk
- about some of the things that we do think that are
- 18 reasonable in terms of our program that have gotten a
- 19 lot of discussion like zero free time, like
- 20 constructive placement in yards, so I don't want to
- jump ahead in terms of digging into the content
- 22 there, but I do appreciate the opportunity to be here

Page 843 and give you guys some of our thoughts on that. 2 COMMISSIONER OBERMAN: Did you say you 3 thought zero free time is reasonable? 4 MS. MULLIGAN: We have zero free time on 5 some of our shipments. I assume we'll talk about 6 that. 7 CHAIRMAN BEGEMAN: Pam? MS. ARPIN: I'll go next. CHAIRMAN BEGEMAN: Yes. 10 MS. ARPIN: So, you know, it's interesting 11 being here because we have started our Customer 12 Advisory Council a couple of years ago and so a lot 13 of the feedback we've received in changes we've made 14 in our product overall has been a result of that 15 feedback and so I can relate to this environment, 16 although a little bit more charged, than I'd say our 17 Customer Advisory Council, in terms of being 18 actively listening. 19 We need to actively listen, and we need to 20 ensure that we're taking a balanced approach. That 21 being said, we are very mature in our precision 22 railroading model at CP, and so we have the benefit

- of looking at it in the rearview mirror, versus being
- 2 in it.
- Was it difficult at the time, making tough
- decisions with our customers? Absolutely, but we
- 5 have been able to garner significant benefits, some
- of which I talked to in terms of the volumes we're
- able to move, the customers that are coming back
- 8 online with us, the contracts we're negotiating
- because of our efficiencies and so, you know, we
- 10 have, I guess a different perspective because of
- 11 where we are at.
- 12 CHAIRMAN BEGEMAN: Derek or --
- MR. TAYLOR: Yeah, no I echo those
- 14 comments. I mean you heard me say scheduled
- 15 railroading, that's what CN did start, and I've been
- here 19 years, it was the original one, so we're
- 17 mature in that concept. But you know, one thing that
- 18 I heard from some of the customers, first mile/last
- 19 mile. That's something we have been focused on for
- quite some time and by no means are we perfect, but
- we know that's a critical touch point with our
- 22 customers especially at the last mile.

Page 845 1 So, a lot of the things we have molded 2 over the years as we've adapted and changed and 3 evolved has been focused on that and you know, a true supply chain approach, that's really been integrated 5 in our mantra, and started in earnest, I'd say. 6 was actually in Vancouver, British Columbia, at the 7 huge -- it's the biggest gateway to Canada at the 8 time -- but imagine Chicago with a port. That's Canada's version of Chicago with a 10 port basically. So, that first mile/last mile touch 11 point is something we have and continue to really 12 focus on. 13 COMMISSIONER OBERMAN: Did you say with a 14 port? 15 MR. TAYLOR: Yeah, no, I'm just using an 16 example, that's their biggest gateway so, but it's 17 very similar to Chicago in some aspects, it's a 18 smaller Chicago but with a port, so, it's one of 19 those items that we realize there's those touch 20 points and they're critical to it, but once again 21 some of the CP and the evolution of it, we've been --22 I won't say the granddaddy of it but at the end of

- $^{
 m l}$ the day, you know, this has been going on at our
- ² railroad since 2000, so while we still have, I'm
- 3 sure, agree to disagree with some of our customers
- 4 from time to time, overall the relationships are
- 5 much improved and we continue to grow our business.
- 6 Of all the Class I's, we've had the
- 7 largest amount of growth and April of this year was
- 8 our record GTM's of 1.5 billion a day, on average
- 9 over 7 days, it's never been done before in the
- 10 history of our company for 100 years.
- 11 CHAIRMAN BEGEMAN: Pam, I have just a
- 12 couple of questions based on your written testimony.
- 13 You had mentioned you have CP's customer service
- team, and I'm curious how many people you have
- 15 assigned to that?
- MS. ARPIN: So, we have just under 60
- individuals assigned that support both carload and
- intermodal volumes.
- 19 CHAIRMAN BEGEMAN: 6-0?
- MS. ARPIN: 6-0.
- 21 CHAIRMAN BEGEMAN: And, you also had
- 22 mentioned that you conduct surveys periodically, do

- they also -- do they touch on demurrage and
- 2 accessorial? And if they do, could you comment on
- what some of your customers have responded?
- MS. ARPIN: Yes, they do and so we work
- 5 through a third-party, Ipsis Reed, to ensure that we
- 6 have phone calls and/or emails to ensure we reach a
- 7 certain amount of population so it's also
- 8 statistically solid as well.
- 9 And in terms of the questions we ask, it
- 10 is about overall operating service. We get into
- invoicing through the merit of I'd say the 360-degree
- view of a customer from the moment that they contract
- with us through to invoicing. We ask them questions
- 14 about all aspects of the business.
- In terms of demurrage and accessorial, to
- be quite frank, we get more feedback about our
- invoicing than we do about demurrage and accessorial.
- 18 And invoicing, I mean our freight invoices and our
- 19 processes around our technology, than we do
- 20 specifically about accessorial.
- Now, that being said, we do get some
- 22 feedback from our customers around operations and

- 1 first mile/last mile and that is why we have
- instituted some of the processes that we have in
- 3 terms of how we build our trains and our yards and
- 4 our audit procedures to ensure that we are
- 5 successfully looking at that component to the
- 6 business.
- So, I'd say largely we're hearing first
- 8 mile/last mile and that we're seeing that dial move
- 9 over the last couple of years, given our focus in
- 10 that area.
- 11 CHAIRMAN BEGEMAN: Move positively?
- MS. ARPIN: Yes, correct.
- 13 CHAIRMAN BEGEMAN: And I think you also
- said that largely your tariffs have been largely
- unchanged since 2015 and I think I'm going by memory
- 16 yesterday but I believe NGFA testified that there's
- 17 a new charge, something to the effect that there's a
- 18 \$500 diversion fee for a car, somehow even if CP is
- 19 responsible.
- I didn't have the exact language in front
- of me, but maybe you know what I'm talking about and
- you could explain it.

Page 849 1 MS. ARPIN: I do, and I wasn't going to 2 talk to it unless you guys brought it up because that 3 information is incorrect. We have not changed our diversion fee since January 1st of 2016. 5 COMMISSIONER OBERMAN: Is that the \$500? 6 MS. ARPIN: It was \$533, and it moved to 7 \$535 on January 1st of 2016. 8 CHAIRMAN BEGEMAN: So, it's a continued, 9 okay. Alright, thank you. 10 VICE CHAIRMAN FUCHS: Let me just jump into the idea of credits. For I guess, Derek and CN, 11 12 can you maybe explain why you all give a credit 13 generally? 14 MR. COURTOREILLE: Sure, so we give credits for two reasons, but one is we have a loading 15 16 and unloading credit, it's built into the rate and 17 then we also give credits that are related to 18 service, so if we have missed switches, or we start 19 to see an accumulation that's related to CN 20 activities, we give credits to compensate. 21 VICE CHAIRMAN FUCHS: And on that latter 22 category, it's because you know, you all believe that

- your service caused some sort of harm to the
- 2 receiver, shipper that you want to account for with
- 3 that credit?
- 4 MR. TAYLOR: We believe that the shipper
- 5 was not in control of the circumstances that caused
- 6 the incident, so yes, we provide a credit to correct
- ⁷ for that.
- 8 VICE CHAIRMAN FUCHS: And you'd agree when
- 9 that usually happens there's some sort of negative
- 10 effect on the shipper for some sort of
- 11 railroad-caused delay?
- MR. COURTOREILLE: I think that really
- depends on the shipper themselves. You know, if
- they're in a situation where the products --
- VICE CHAIRMAN FUCHS: But sometimes that's
- 16 true.
- MR. COURTOREILLE: Sometimes it may be
- 18 true.
- 19 VICE CHAIRMAN FUCHS: Okay. And so, I
- 20 noticed that your alls credit expires in a week?
- MR. COURTOREILLE: So, that's the loading
- 22 and unloading credit.

| | Page 851 |
|----|---|
| 1 | VICE CHAIRMAN FUCHS: Okay. |
| 2 | MR. COURTOREILLE: So, the service credits |
| 3 | do not. They're effectively, they offset something |
| 4 | that's incurred. |
| 5 | VICE CHAIRMAN FUCHS: I see. |
| 6 | MR. COURTOREILLE: The fact that something |
| 7 | may go over the span of a week, there's no impact. |
| 8 | VICE CHAIRMAN FUCHS: I see. |
| 9 | MR. COURTOREILLE: Continue to credit |
| 10 | essentially until that situation has been resolved. |
| 11 | VICE CHAIRMAN FUCHS: I see. So, would it |
| 12 | be fair to say that your service-related credits |
| 13 | don't expire? |
| 14 | MR. COURTOREILLE: That's right, they're |
| 15 | applied immediately to offset the underlying |
| 16 | condition. |
| 17 | VICE CHAIRMAN FUCHS: Okay, is the same |
| 18 | true for CP and BNSF? Do any service-related |
| 19 | credits expire? |
| 20 | MS. ARPIN: So, for CP it's on a 30-day. |
| 21 | VICE CHAIRMAN FUCHS: And why is that? |
| 22 | MS. ARPIN: So, the reason for that is |
| 1 | |

- 1 that we do believe at some point in time having
- 2 credits extend for unknown periods of time does not
- 3 have the right behaviors in terms of ensuring our
- 4 assets are moving.
- 5 VICE CHAIRMAN FUCHS: Why is it the right
- 6 behavior at day 29 but not the right behavior at day
- 7 31?
- MS. ARPIN: So, fair enough, there had to
- 9 be a cut-off point.
- 10 VICE CHAIRMAN FUCHS: Why did there have
- 11 to be a cut-off point?
- MS. ARPIN: If we leave credits going in
- perpetuity, then I guess the question I would ask
- back is what then enforces the behavior of having
- 15 those assets fluidly moving?
- VICE CHAIRMAN FUCHS: I would say the same
- 17 reason that you would excuse something at day 28,
- which is that you, in some cases imposed a harm on
- 19 someone that you want to make up for. That's the
- whole purpose of the credit as I understood it,
- 21 right? If there's a service credit, you imposed a
- 22 harm by missing someone's switch, so you want to

- 1 remove a debit, which is a harm, I guess could be
- 2 considered imposed on you all or some other customer,
- and so you know, it's kind of what's fair is fair.
- 4 MS. ARPIN: I can understand your
- 5 perspective and again, just speaking to why CP has
- 6 put the 30-days in place is that we want to ensure
- ⁷ that there is behavior change when there is demurrage
- 8 charges and that having credits that go on for
- 9 perpetuity may mean that the customers aren't making
- 10 the right decisions around the assets, and we've seen
- ¹¹ it.
- 12 VICE CHAIRMAN FUCHS: And we all want an
- efficient movement of cars. And so, you know, the
- way I look at it is you know, if there's a missed
- switch, then that's not an efficient movement of
- 16 cars as well, you know, some of it may not be your
- fault, some of it might be your fault, right? There
- might be a missed switch that's just your fault.
- And that's -- there's a national need for
- the efficient movement of cars, and that's an
- instance where maybe it didn't fulfill, so if a
- 22 credit expires, then doesn't the incentive work on

- the other foot which is that hey, you know, this
- 2 credit was given because I have now contributed to
- 3 the lack of efficiency in the rail network and you
- 4 know, and therefore if the credit's just removed,
- 5 then that means that the credit is a lower incentive
- for you all, would that be a fair statement?
- 7 MS. ARPIN: And I just want to make sure
- 8 it's understood, that for us it's a rolling 30, not
- 9 that if you have 28 day, you know on the whole.
- VICE CHAIRMAN FUCHS: How often do credits
- expire and is this even a problem?
- MS. ARPIN: I honestly don't see it as a
- 13 huge problem. We have very large customers that you
- 14 know, generate a lot of credits, and to be frank --
- 15 and I know it's discussed before is that if there are
- 16 issues where customers bring that up as being an
- issue into the next month, we will review that.
- VICE CHAIRMAN FUCHS: Okay, and then
- 19 talking about deadlines for responding, I think, you
- 20 know, Jill, you mentioned that you all endeavored to
- get back to people within a day or two, and I take
- 22 that to mean substantive responses?

Page 855 MS. MULLIGAN: That's our goal, but 2 certainly we make sure that we get back to someone 3 within the next business day knowing that we received the complaint and often they're straightforward, so 5 we're able to address them in a couple of days. 6 VICE CHAIRMAN FUCHS: And, that's great 7 and you know, it sounded like everybody has at least 8 15-day deadline, is that fair? MS. ARPIN: Not for us. 10 VICE CHAIRMAN FUCHS: Well not for you 11 all, but at least 15 days or better, 15 days or 12 sooner, maybe to respond, is that fair? 13 MS. ARPIN: That's particular to our invoice. 15 VICE CHAIRMAN FUCHS: I see. 16 MS. ARPIN: That doesn't include all the 17 work we do up front. 18 VICE CHAIRMAN FUCHS: Sure. 19 To try to prevent the invoice. MS. ARPIN: 20 VICE CHAIRMAN FUCHS: No doubt, I hear 21 you. 22 MS. ARPIN: And a lot of that work is done

- 1 without the customer even being involved because we
- 2 are auditing operational movements and making
- 3 adjustments to records.
- 4 VICE CHAIRMAN FUCHS: And we've heard a
- 5 lot about the burden of disputing things, and you
- 6 know, I guess the first thing is just, you know,
- 7 getting a response, right? And so, can you all you
- 8 know, is there a scenario where if a railroad failed
- 9 to give, I'll say, a substantive response within 15
- days, that would be appropriate or reasonable? Is
- there a scenario that you can think of? I mean you
- 12 all seem to endeavor either require internally
- 13 yourself to do, or you know, much better, so I'm just
- wondering if there's not a railroad response within
- 15 days, is that ever reasonable -- substantive
- 16 response?
- MR. COURTOREILLE: I can answer for CN, so
- typically we're very specific in what we put, what
- 19 actually applies, our 15-day billing guarantee. So,
- the ones that we're not able to get timely
- information back, it's typically things that we're
- working with another third party to essentially cross

Page 857 charge or bill our customer on behalf of that third 2 party, those we would exclude. 3 In every other case, we typically are able to respond much faster than 15 business days. 5 COMMISSIONER OBERMAN: Hi, just to -- I'd 6 like to just dispense with that last point quickly and then go on with some questions I have. At CP and 8 CN if the customer doesn't complain within 15 days, 9 are they out? 10 MR. COURTOREILLE: No, they are not. 11 COMMISSIONER OBERMAN: So, there's no time 12 limit on their complaining, it's just if they take 13 longer than 15-days, then you don't obligate 14 yourself to get back in 15-days, is that --15 MR. COURTOREILLE: That's correct. 16 COMMISSIONER OBERMAN: Okay, is that the 17 same at CP? 18 MS. ARPIN: [Nods] So, let me go to some 19 broader questions and I'm just going to go down the 20 panel, Jill, of your typical demurrage charge, I 21 assume it's \$150'ish, in that ballpark? 22 MS. MULLIGAN: It is generally \$150.

| | Page 858 |
|----|---|
| 1 | COMMISSIONER OBERMAN: Yeah. |
| 2 | MS. MULLIGAN: For merchandise, yeah. |
| 3 | COMMISSIONER OBERMAN: And how much of |
| 4 | that is penalty and how much of that is compensation? |
| 5 | MS. MULLIGAN: A couple points on that. |
| 6 | One is that we have not actually changed our rates |
| 7 | since 2015, I believe, so our rate has been fairly |
| 8 | constant. So, in terms of a recent increase that |
| 9 | fits into one category or the other, we just don't |
| 10 | have that history or experience. |
| 11 | COMMISSIONER OBERMAN: Well when you set |
| 12 | it at \$150 |
| 13 | MS. MULLIGAN: Yeah. |
| 14 | COMMISSIONER OBERMAN: What part of it is |
| 15 | penalty and what part of it is compensation? |
| 16 | MS. MULLIGAN: I think to be frank, we are |
| 17 | really prioritizing driving the behavior, so in terms |
| 18 | of the cost at an individual location, what part of |
| 19 | that would be compensated by 150 is going to be |
| 20 | frankly wildly variable depending on the day, the |
| 21 | terminal, the facility, and so I think in general if |
| 22 | you talk to our operating folks, because of all the |
| | |

- 1 costs associated with a delayed shipment, beyond the
- 2 actual cost of the equipment -- so the track, the
- 3 crew's being burned.
- 4 I don't think they would really think of
- 5 the 150 as an opportunity for a full cost to pass
- 6 through, instead what I think we do is look at is the
- 7 rate that we're charging effective to get the
- 8 behavior? That's not irrelevant to cost, but it's
- 9 not driven by cost.
- 10 COMMISSIONER OBERMAN: Well, when you set
- the rate at 150 several years ago, you set the same
- 12 rate for everybody?
- MS. MULLIGAN: We did.
- 14 COMMISSIONER OBERMAN: So, in order to
- 15 arrive at that rate, did you figure that some of it
- was cost and some of it was penalty?
- MS. MULLIGAN: We thought of it, I
- believe, as fully incentive, though obviously if
- 19 you're collecting something in terms of incentivizing
- behavior, that is going to defray costs, but we do
- not have a component that says \$100 is the cost and
- 22 the \$50 is the penalty.

Page 860 And part of the reason why I think that's 2 a reasonable approach for us is because we do then 3 spend the time saying where there's railroad fault, 4 then we're going to not have demurrage apply in that 5 instance, and so the sort of split between what's 6 penalty versus what's cost is perhaps more relevant 7 when you are talking about not properly taking 8 responsibility when it's railroad fault, but I think we think of it as our entire program and how all of 10 those terms come together to make us feel like what 11 we've done is set the right incentive with reasonable 12 terms and reasonable application. 13 COMMISSIONER OBERMAN: I'm just going on 14 some of the case law, not all of it, some of it, it's 15 not all totally consistent, but there are cases which 16 I'm sure you know that say unless you can show the 17 shipper is at fault, you can't collect the penalty 18 portion of the demurrage charge. 19 So, if you were in such a litigation 20 session, how would you tell the court or this Board 21 which part you're entitled to collect and which part 22 you're not?

Page 861 1 MS. MULLIGAN: To be honest, I'm not sure 2 that that's really case law that applies to current 3 circumstances. I believe there was some subsequent 4 case law that talked about the fact that the 5 responsibilities of the railroads are to look at 6 where we are at fault and make adjustments and not 7 put a customer on the hook for a charge associated 8 with that, but we can provide a more fulsome 9 response. 10 COMMISSIONER OBERMAN: I'm going to come 11 back to that issue in a minute, I'd just like to find 12 out if the other two can answer that question. 13 do you have a portion of your demurrage charge that's attributable to penalty and a portion 15 attributable to compensation? 16 MS. ARPIN: So, the way we look at it is 17 that we are looking at the costs, and I can de-18 construct some of that for you without getting into 19 particulars because of antitrust, but I will do my 20 So, what we look at is -- so car hire, best. 21 there's a certain charge for care hire per day. 22 look at cost of failure to supply for the next move

- and the next move may be for that customer and/or
- other which is an opportunity cost.
- We look at rolling storage prevention, so
- we do have customers in particular, that participate
- 5 in spot markets where their forecasting is not known
- 6 to us and therefore we have to -- it's surge capacity
- 7 that we were not aware of and they take advantage of
- 8 our assets as rolling storage.
- 9 We also look at incremental yard switching
- 10 and processing costs, so excess equipment in the yard
- 11 causes more switching and then we look at our local
- 12 service failure costs. So, yard congestion can risk
- 13 crews running out of time to service other customer
- 14 needs, and this requires us to provide credits to
- other customers that we weren't able to fulfill their
- demand or incur costs of a recovery switch.
- So, those are some of the things that we
- 18 look at. And to be quite frank, the charges that we
- 19 have do not cover that cost and therefore, I would
- agree with BN is that we're looking for the rate
- that incents the behavior change, because it's not
- 22 covering our cost, but we're trying to be balanced

- and fair to our customers to see what is the charge
- that will create the necessary change.
- 3 COMMISSIONER OBERMAN: So, is it your
- 4 testimony that none -- no part of your daily
- demurrage charge is penalty, it's all compensation?
- 6 MS. ARPIN: It is compensating for our
- 7 costs.
- 8 COMMISSIONER OBERMAN: Entirely?
- 9 MS. ARPIN: Entirely.
- 10 COMMISSIONER OBERMAN: And you're saying
- it doesn't always meet it?
- MS. ARPIN: In most cases would not cover
- our costs.
- 14 VICE CHAIRMAN FUCHS: Marty, can I jump
- in on this, it's because it's something that came up
- in Panel II, and I'm trying to understand, you know,
- 17 and so maybe this panel can kind of bring a little
- 18 bit more clarity. You said it's the charge necessary
- 19 to incentivize -- or I think you said necessary to
- incentivize the behavioral change you all want, or
- the necessary behavioral change -- something to that
- 22 effect?

Page 864 1 Because we feel that in MS. ARPIN: 2 covering our total cost would be detrimental to our 3 customers. VICE CHAIRMAN FUCHS: True, okay, so I 5 guess I'm trying to understand, how do you define 6 what is you know, the necessary behavior, do you know 7 what I mean because like you know, every dollar you 8 add, it's going to chance the cost calculus for somebody, right? Someone who's evaluating whether or 10 not to continue to pay the demurrage charges, versus 11 whether or not to invest to expand their facility. 12 The higher and higher you go, the better 13 and better that investment looks, for example. And 14 so, you all have to draw the line. What are the 15 specific criteria for evaluating the behavioral 16 change that you want? What are you looking at? 17 do you know that you've gone too much or too little? 18 MS. ARPIN: And I think that there's some 19 factors to that which I've included in my testimony 20 is that we're starting to see our demurrage charges qoing down, which means --21 22 VICE CHAIRMAN FUCHS: I mean the rate.

| | Page 865 |
|----|--|
| 1 | MS. ARPIN: Okay, the rate itself? |
| 2 | VICE CHAIRMAN FUCHS: Yeah. |
| 3 | MS. ARPIN: But I am going to relate it in |
| 4 | the sense that when the demurrage charges go down, |
| 5 | that means we're incenting the right behavior. |
| 6 | VICE CHAIRMAN FUCHS: Right. |
| 7 | MS. ARPIN: That's everybody is saying |
| 8 | VICE CHAIRMAN FUCHS: I see. |
| 9 | MS. ARPIN: We are not here to get revenue |
| 10 | from demurrage. I would rather get a freight |
| 11 | movement. It is much more beneficial to the railroad |
| 12 | to get a freight movement. |
| 13 | VICE CHAIRMAN FUCHS: Right. |
| 14 | MS. ARPIN: To have a car sit, and so we |
| 15 | know when we're doing the right things, because we |
| 16 | can actually see the inverse happening which is it's |
| 17 | not going up, it's going down. I feel that when |
| 18 | you're seeing increases, then maybe you don't have |
| 19 | the right charge in place. |
| 20 | VICE CHAIRMAN FUCHS: But is that |
| 21 | sufficient criteria like, because you can imagine, |
| 22 | and I hate to give these crazy hypotheticals, but |
| | and I have so give sheet stall hyposheetsall, but |

Page 866 I'll give you a crazy hypothetical, some of you are 2 used to them. The -- if you were to charge a million 3 dollars a day, you'd probably get no demurrage, do 4 you know you what I'm saying? 5 MS. ARPIN: And no customers. 6 VICE CHAIRMAN FUCHS: Right, well exactly. 7 And so, I guess that's you know, just, you know, you 8 want to charge up until the point where, you know, so 9 what I'm hearing is there's a revenue curve, and 10 you're charging at the top of the revenue curve? 11 MS. ARPIN: Not necessarily, and our program maybe works a little bit different than 12 13 others in that we do it based on our fleet as well, 14 right? 15 Right. VICE CHAIRMAN FUCHS: 16 MS. ARPIN: Fleet -- the supply and demand 17 of our fleet will also change our charge. 18 VICE CHAIRMAN FUCHS: Right. 19 MS. ARPIN: Because if we don't have that next opportunity. 20 21 VICE CHAIRMAN FUCHS: But you know, I'm 22 hearing -- is it the primary evidence that you're

- 1 giving that you think you've hit the right balance?
- 2 And keep on focusing on a level of charge because
- it's easy to conceptualize, but I think the same
- 4 applies to free time as well, by the way, and other
- 5 practices, and credit usage, but the evidence that
- 6 you're giving is that now your demurrage charge is --
- the total revenue is going down, right? And you
- 8 know, so like is that the criteria -- railroads
- 9 should just keep on decreasing free time and
- 10 increasing rates until we start to see demurrage
- charge go up, up, up until there's something that
- 12 happens where demurrage total revenue goes down, is
- that what we should be looking at for the appropriate
- 14 criteria, or is there some other way you price?
- Or, I should say think about running your
- 16 systems?
- MS. ARPIN: We go through all of the
- 18 criteria which I just stated.
- 19 VICE CHAIRMAN FUCHS: Yeah
- MS. ARPIN: But then we are trying to be
- rational and balanced and I get that you're trying to
- 22 say --

Page 868 1 VICE CHAIRMAN FUCHS: I know, I guess I'm 2 just missing the criteria. Is there a change in like 3 -- let's say percentage of shippers who unload within 4 24-hours, right? Percentage of shippers who leave 5 things in constructive place -- I mean the actual 6 things that the incentives are linked to, are you 7 measuring each of those? And seeing how you move the dial and that 9 sort of thing, that's what I'm kind of looking for 10 here. 11 MS. ARPIN: Yes, so we are looking at the 12 data to say how long our car is dwelling at a 13 customer, how long until they're able to take them into their facilities, how long are they even in 15 their facilities depending if it's private and/or 16 railway equipment -- how customers release that 17 equipment. 18 VICE CHAIRMAN FUCHS: Yeah. 19 MS. ARPIN: We look at all of that. 20 VICE CHAIRMAN FUCHS: Yeah. 21 MS. ARPIN: But at some point, because we 22 can't fully recover our costs.

Page 869 VICE CHAIRMAN FUCHS: Right. 2 MS. ARPIN: We come up with an amount of a 3 charge that we feel is reasonable. 4 VICE CHAIRMAN FUCHS: Okay. 5 MS. ARPIN: And, that being said, in 6 regard to free time, I'll just comment on it now, we 7 have had free time since back in 2013. 8 VICE CHAIRMAN FUCHS: Right. MS. ARPIN: So, we haven't changed that at 10 all. 11 VICE CHAIRMAN FUCHS: So, I don't want to, 12 because I know my colleagues have other questions. 13 So, you mentioned reasonable -- it's the next step 14 which is okay, so, you're saying that you're not 15 recovering, you know, your costs, and you're looking 16 at the incentive and you would actually like to go 17 more, but you've made a determination that -- or you 18 know, obviously you want to cover your costs, right? 19 So, you'd like to go more but you've made 20 a determination that anything more, in terms of 21 either cutting free time or increasing level would 22 not be reasonable.

Page 870 MS. ARPIN: Correct. 2 VICE CHAIRMAN FUCHS: So, if the Board has 3 a reasonable practices authority and we have to make 4 sure things are reasonable practices, so, demurrage 5 is a practice, and what you're saying is you made the 6 determination on what's reasonable. Okay, so if you 7 were sitting our shoes, what is the criteria --8 shipper comes, receiver comes and says, "I think this is unreasonable." 10 I'm like well if we were going to take the 11 CP test, what would we do. 12 MS. ARPIN: Okay, can I provide some 13 further information --14 VICE CHAIRMAN FUCHS: Yeah. 15 MS. ARPIN: In terms of some of the 16 expectations we have from our customers? 17 VICE CHAIRMAN FUCHS: Yeah. 18 MS. ARPIN: Because I think yesterday it 19 went from A and I'll say Z. 20 VICE CHAIRMAN FUCHS: Yeah. 21 MS. ARPIN: I'm from Canada, but I'll say 22 Ζ.

Page 871 VICE CHAIRMAN FUCHS: 2 MS. ARPIN: So, some of the things our 3 customers can do, you know, I did listen yesterday, 4 so I made many notes. I've been very thoughtful 5 about this. So linear volumes. So, looking at the 6 volumes, providing accurate volume forecasts. 7 There's a lot of times where volume will just show up 8 on our line unexpectedly. We have to plan as other roads, a huge 10 We have crews, we have locomotives, we have 11 assets that we have to prepare for ensuring adequate 12 track capacity and/or private storage is available. 13 Loading and unloading schedule for staff to mitigate 14 demurrage, so you know, I did hear not all, but some 15 customers talking about that they work Monday through 16 Friday, 8 to 5. 17 We're a 24/7 operation and as such, we 18 would like to keep those assets moving effectively 19 for all customers. Utilizing tools available, so 20 customer log-in issue. We have opportunities for 21 our customers within the visibility that they have, 22 within the tools, to log issues with us when they see

- 1 that there's an issue with the movement.
- Manage invoice dispute process, reviewing
- inbound pipeline and monitoring car statuses,
- 4 ordering from the pipeline -- we at CP, offer a
- 5 service, particularly because we know people don't
- 6 work 24/7 where you don't have to wait for that car
- ⁷ to arrive in the yard, you can order it from the
- 8 pipeline while you're still at work for the day, and
- ⁹ then managing the whole pre-invoice process.
- So, you know, for us, there's a lot of
- things that are within control of shippers and
- 12 receivers as well.
- VICE CHAIRMAN FUCHS: And I appreciate the
- thoughtful documentation and listening to everybody's
- 15 testimony, you know, because I think our theme was
- 16 yesterday, what can shippers do? So, I appreciate
- 17 you laying that all out.
- 18 You know, I think you know, okay, so those
- 19 are all the things they can do. And you know, one of
- the things that Derek said that I thought was really
- interesting, is you know, if some customers are not
- loading and unloading efficiently, it could hurt

- other customers, and of course, you know, generally
- 2 hurting the rail network, and then hurting other
- 3 customers and hurting you all, you know, at the same
- 4 time, so is that how we should be thinking about
- 5 reasonableness, which is you know, look at, okay,
- 6 what are the effects of that loading and unloading
- 7 practice, if it were the less efficient one, relative
- 8 to all the different ways that a shipper could
- 9 comply.
- 10 And, if there are scenarios where the
- 11 costs to the shipper are greater than the effects of
- 12 not complying with the you know, the lower free time
- or what have you, that we should say that's not
- reasonable. If you have to spend a million dollars
- in track, and you know, whatever benefit you're
- having for the rest of the customers is smaller than
- a million dollars, we should say, you know, this
- bill's not reasonable.
- 19 Is that the type of thing that we should
- 20 be thinking about?
- MR. TAYLOR: Well maybe I can bring an
- operation's point of view to this. Obviously, how

- 1 the demurrage rates are set, that is not what I do,
- but perspective-wise like you said, the operation's
- 3 teams -- I don't want to collect demurrage. I want
- 4 to have a full rail yard, a happy customer, and move
- 5 their products safely and efficiently.
- And that, sometimes I think, gets lost in
- 7 some of this because it's so contentious, but from an
- 8 operation's point of view, we don't want to collect
- 9 that. And the supply chain is very important as she
- 10 mentioned, you know, forecasting is a huge part of
- what we do. It takes us 6 months to qualify a
- 12 conductor. It's 9 months to get a qualified
- 13 engineer.
- We are the only railroad that was in
- 15 market for locomotives. GE had to reopen their
- 16 factory in Fort Worth, Texas, imagine the lead time
- on a 4- million-dollar Tier IV locomotive.
- 18 VICE CHAIRMAN FUCHS: Right.
- MR. TAYLOR: So, the scale-ability for a
- railroad, we want to be nimble, we want to be
- costumer-centric, but we can't always be as nimble,
- especially, you know, we are a commodity-dependent,

- 1 so are many of our customers. Those commodities have
- 2 seen some pretty significant swings over the past
- ³ decade.
- 4 VICE CHAIRMAN FUCHS: Right.
- MR. TAYLOR: And, you know, commodities
- 6 are important too, because price has a lot to do with
- ⁷ that, so when you look at a supply chain, you have
- 8 say a customer that gets a very good price on a
- 9 product, they can only say handle 5 cars a day, 5
- days a week.
- Well they may go buy 100 cars of that
- 12 product.
- 13 VICE CHAIRMAN FUCHS: Right.
- MR. TAYLOR: And it's going to come, it's
- a business decision they made, I don't blame them for
- making that decision, but then all of a sudden
- demurrage becomes contentious.
- 18 VICE CHAIRMAN FUCHS: Right.
- MR. TAYLOR: But even with the demurrage
- 20 rate, they still make money on it, so those are part
- of the supply chain challenges that we deal with on a
- 22 daily basis and we're not always perfect. The

Page 876 1 customer is not always perfect. 2 VICE CHAIRMAN FUCHS: Right. 3 But, our ability to be nimble MR. TAYLOR: 4 isn't as quick as many people would expect. 5 because of some of the things that we have to do to 6 ramp up or ramp down. 7 VICE CHAIRMAN FUCHS: I hear you, but and 8 then I appreciate the operation perspective, and it 9 came through in your testimony. But I'm thinking, 10 you know, from a legal perspective, is what I'm kind 11 of describing as being a benefit cost as was talked 12 about yesterday. 13 I think you know, in particular in the 14 chemical panel, is that type of thing appropriate for 15 judging the reasonableness of demurrage fees? 16 MS. GAINEY: I think it would be 17 particularly difficult to try to develop or endeavor 18 to develop a one size fits all, cost benefit test 19 that would apply to all of the varying circumstances 20 of different customers and terminals on individual 21 railroads and the multitude of factors that go into 22 the supply chains and the commodities that are

- 1 shipped on the rails.
- One theme that has emerged from all of the
- 3 testimony that the Board has heard over the last two
- 4 days, is that there is really no one size fits all
- 5 piece, solution here. And that might be
- 6 particularly frustrating or dissatisfying, but I
- 7 think it's fully consistent with the long line of
- 8 demurrage case law, both at the Board and in the
- 9 courts where the Board and courts have struggled
- with the fact-specific circumstances in individual
- demurrage cases when they are not able to be
- resolved, and they result in litigation where a
- 13 carrier is trying to collect demurrage charges from a
- customer, and then it's really delved into the
- details of the particular invoices, the particular
- 16 service.
- What happened on that day? Was there
- over-ordering? What contributed to it? And so, it
- is very challenging and I'm not sure going to be the
- 20 right use of the Board's resources or time to be
- focused on that aspect as opposed to focusing efforts
- on other areas.

Page 878 And one area in particular, improving 2 dialogue and transparency the way that the Board has 3 asked the railroads to make more easily available, 4 the demurrage revenues that were previously reported 5 to the Board in a line item in the R-1's, that's an 6 area where it seems like very easy for the Board to 7 do and it makes that information more readily 8 available to customers. We, of course, are speaking individually 10 with our customers on a routine basis about these 11 issues, and we work hard with them to try to minimize 12 the amount of demurrage invoices that they're 13 incurring, because as Derek said, we want them to 14 load and unload the cars as quickly as possible, and 15 we wouldn't want anything to incentivize them not to 16 do so. 17 VICE CHAIRMAN: Well, the last part I'm 18 wondering about, but you know, it sounded like you've 19 done kind of an exhaustive analysis of the case law 20 which is very much appreciated, and I guess I'm 21 wondering okay, so cost benefit test, impractical to 22 apply, predominantly not a good use of the Board's

- 1 resources.
- And so, what are the guiding principles we
- 3 should have for the reasonableness of demurrage,
- 4 maybe with an example of -- give me an example of a
- 5 demurrage fee that is unreasonable, in a hypothetical
- 6 event.
- 7 MS. GAINEY: And let me be clear. When I
- 8 say not a good use of resources, I mean in a broad
- 9 general, trying to construct in advance, a one size
- 10 fits all rule that would govern all future cases as
- opposed to the individual adjudication, the way that
- this demurrage resolved.
- VICE CHAIRMAN FUCHS: But if we were to --
- when you say one size fits all, if the Board were to
- 15 just come out tomorrow, and I'm not suggesting that's
- what we want to do, but it was a suggestion
- 17 yesterday.
- 18 If the Board were to come out tomorrow and
- 19 say that you know, shippers and receivers can
- 20 challenge any -- you know, when we look at reasonable
- rules and practices, anybody can bring a complaint
- 22 that basically says for their particular

Page 880 circumstance, the cost of complying with this is not 2 worth it compared to what the railroad is getting if 3 I did comply. 4 What you're saying is that would not be a 5 good policy statement for the Board to make? 6 MS. GAINEY: I'm not sure that that would 7 be the best way to focus the Board's resources and I 8 welcome, of course, Jill's and other people's inputs 9 on these topics, but in our view, this is a very 10 fact-specific situation. 11 VICE CHAIRMAN FUCHS: But we would still 12 be talking about fact-specific cases. I'm saying, 13 the policy statement would be when you bring your 14 fact-specific case, tell us about your fact-specific 15 costs, and the railroad would say their fact-specific 16 benefits so, it would still be fact-specific. 17 MS. GAINEY: So, at that point is it very 18 much like an adjudication as opposed to a policy 19 statement. 20 VICE CHAIRMAN FUCHS: Yes. 21 MS. GAINEY: Or as opposed --22 VICE CHAIRMAN FUCHS: It's a policy

- 1 statement that would guide an adjudication.
- MS. GAINEY: I wonder though, whether that
- would be possible to be done in the fact-specific
- 4 context of an individual customer or an individual
- 5 terminal on an individual railroad. These issues
- 6 don't wash out the same way with respect to various
- 7 commodity groups, and it is very -- I can't emphasize
- 8 the amount and I'll turn to Derek here as well, to
- 9 which these issues are very fact-specific and very
- 10 much depend upon individual contexts and are not the
- 11 same.
- 12 There really is not a one size fits all
- 13 solution here, but the most important thing for us is
- incentivizing efficient loading and unloading of
- 15 railcars so we can maximize the asset utilization on
- our network.
- MR. TAYLOR: It's highly variable when you
- 18 look at the customers. They all have different
- 19 supply chains, different needs, different
- 20 commodities, but one of the things for the last few
- 21 days is you know a lot of folks talking about this
- working Monday through Friday and you've mentioned in

- here, both of you, can you imagine if the railroad
- decided to shut down our 4 hump yards or mechanical
- ³ facilities and everything else on Saturday and
- 4 Sundays, what that would do to the supply chain.
- 5 And I don't mean that in a disrespectful
- 6 manner, but it's one of those things where we have
- ⁷ terminals in certain locations that only work Monday
- 8 through Friday, cars keep coming Saturday and
- 9 Sunday. So, it's one of those things -- it's not
- meant to be a penalty or anything else, but we really
- 11 try to get everybody in the whole supply chain for
- 12 that 7-day week.
- VICE CHAIRMAN FUCHS: But you understand
- that, maximization of loading and unloading implies
- 15 not considering customer costs, so are you saying
- 16 that we should never consider customer costs in
- evaluating the reasonableness?
- MR. TAYLOR: To Kathy's point, it's very
- 19 specific. We have a number of -- call it, smaller
- 20 customers.
- VICE CHAIRMAN FUCHS: Right.
- MR. TAYLOR: And operations, that they

- don't have the volume that we'd never expect them to
- ² do that. We actually have called day/week service.
- VICE CHAIRMAN FUCHS: Right.
- 4 MR. TAYLOR: Our transportation service
- 5 plan is set up where we are very intertwined with
- 6 those customers, so we have somebody that only has a
- 7 2-car spot.
- 8 VICE CHAIRMAN FUCHS: Right.
- 9 MR. TAYLOR: Well, they may only have
- 10 enough business to only service in 2 days a week, so
- we tailor that we may go service them on Monday and
- Wednesdays, you know, and we're not perfect and
- 13 neither are they, but in some cases we've had some of
- those smaller shippers have some pipeline issues
- because they want to order a cheaper product, but we
- work with them to balance that out, you know, they've
- 17 come to us for help and that's so very --
- VICE CHAIRMAN FUCHS: And I know Ann's got
- 19 questions, I'll just say that you all are familiar
- with benefit costs in a number of contexts, and if
- you were to go to the FRA, for example, and say I
- 22 want you to make decisions on benefit costs -- and

- it's separate from doing a decision for a regulatory
- 2 policy versus an individual policy between two
- businesses, I understand that completely and there's
- 4 a million reasons why.
- 5 But if you were to say that, you know, if
- 6 you would say FRA maximize safety versus FRA weigh
- 7 benefits and costs -- those are two different
- 8 concepts. And so, if we're maximizing loading and
- 9 unloading, that's like maximizing safety right, but
- 10 you all, in other contexts frequently say, consider
- 11 costs.
- And so, I guess and what I'm never hearing
- as part of this discussion, a consideration of
- customer costs, and I guess I'm wondering, is it not
- 15 appropriate that we should even be thinking about
- that? Is it in the demurrage context, it's just so
- different than regulatory context, we shouldn't care
- about customer costs? Somebody help me out with
- 19 that.
- MS. MULLIGAN: Maybe I can try. What I
- would say is I don't think it's irrelevant, but I
- 22 think also you have to take a bigger picture view of

- the cost and benefit, and if you're going to judge
- the reasonableness of a demurrage program, you need
- 3 to think about -- and that's just, I think we maybe
- 4 we need, we talk about the network.
- 5 But in reality, the network is our
- 6 collective customer. There's 272,000 cars on our
- 7 network right now.
- 8 We're not trying to get efficiency because it makes
- 9 us feel good, it's because we have a bunch of
- 10 shippers who need us to deliver their freight.
- And frankly, I think a lot of those
- shippers would be concerned about not having clear,
- general rules of applicability that tell them the
- 14 rules of the railroad and say okay, I know what I can
- 15 and can't do to avoid those costs, and I give you the
- 16 tools. What I think in terms of reasonableness for
- us is we give you the tools that enable you to engage
- with us, to show us when it's our fault, to make sure
- we're taking credit for when it's our fault because
- 20 then we bear those costs, so that goes right to --
- those inefficiencies fall at our foot.
- But, if you're thinking just about the

- $^{
 m l}$ cost to an individual shipper who may not be
- operating their facility in the same way that most of
- your customers are, then I think you're going down
- 4 the wrong path in terms of what the STB has also
- 5 previously recognized in terms of the level at which
- 6 you're supposed to consider reasonableness.
- 7 CHAIRMAN BEGEMAN: So, I think yesterday I
- 8 mentioned the one size fits all concern I have, not
- ⁹ from your perspective, Kathy, but rather how
- demurrage charges are being imposed on the variety of
- 11 customers. And I'm not picking on any of you
- 12 necessarily, I think we heard a lot about -- I'm
- 13 going to say, you know, Ben from Consolidated Scrap
- 14 Resources, and what was going on with NS's new
- 15 charges where no matter -- I mean he doesn't have the
- space so he can do anything to avoid incurring
- demurrage costs, based on the changes that they've
- 18 made.
- They've basically imposed sort of a one
- 20 size fits all. We heard from the Barilla, just a few
- moments ago that they can't unload a unit train in 24
- 22 hours, but that's UP's one size fits all demurrage

- imposition. And so, you got to look at it both ways,
- or reconsider it, I guess I should be saying.
- It's that I mean, I know
- 4 that it is good to have clarity and transparency, and
- 5 I think as I mentioned maybe like I don't want to say
- 6 uniformity in any type of an antitrust concern for
- 7 the railroads, I don't mean it that way, maybe the
- 8 uniformity needs to come from some direction from the
- 9 Board.
- MR. TAYLOR: If I could comment, you
- mentioned the unit train remember that was a topic of
- discussion yesterday, you know, from an operational
- point of view in our supply chains -- and, you know,
- we've been at this at least from our scheduled
- 15 railroading for 20 years, we know what facilities in
- the supply chain can actually do a train if it's in
- 17 12-hours, 18-hours, 24-hours, and we've worked with
- 18 them.
- So, when we know we can maximize the use
- of our assets in working with a supply towards the
- receiver or shipper, we do that. But they also know
- 22 if that sweet spot is going to be more than 24-hours,

- $^{
 m l}$ we move that in a manifest network for the last 20
- years.
- So, it's one of those things, it is about
- 4 balance to your point, but at least I can speak on
- 5 behalf of CN from an operational point of view, we
- 6 have that dialogue so we know what customers can be
- ⁷ unit train centric, and actually turn the assets that
- 8 quick.
- 9 We know what facilities can do the same
- thing on the receiving end, and you know, we had some
- 11 contentious stuff with a facility and a shipper and
- ourselves, and we sat down in a room and then we
- worked it out and then we went out and set a record
- the following year, the best we ever had, for all
- 15 three of us.
- But it's the supply chain mantra that
- 17 you've got to work on there, at least from a CN point
- of view, we work with them so they realize this makes
- unit train sense, it's capable through the whole
- 20 supply chain, not just okay, we can load it at origin
- in 16 hours, but then it goes to a destination to sit
- 22 for three days to unload it because it's got to

- $^{
 m l}$ -match, and that's at least what we've done over the
- years, so at least at CN that is not as contentious
- of an issue.
- 4 CHAIRMAN BEGEMAN: Well, I will say it's
- 5 not lost on me that the two carriers that seem to
- 6 have had the least amount of criticism directed, or
- 7 concerns directed at them during these 2 days of
- 8 hearings, have been BNSF, who is not doing precision
- 9 scheduled railroading, and I would say KCS who is on
- 10 the -- in the early stages of some elements of it.
- 11 And so, I think that's somewhat informative as well.
- 12 COMMISSIONER OBERMAN: I'd like to pick
- back up and just finishing a line of questioning and
- then going to a couple of other subjects. So, let me
- 15 go to CN on the question of telling us how much, if
- 16 you can, of your demurrage charge consists of
- 17 compensation and how much of it consists of penalty.
- 18 Are you able to answer that question?
- MR. COURTOREILLE: So, I would tell you
- that our response is very similar to CP's and the
- 21 fact that it's incredibly complex to look at an
- 22 individual yard and customer scenario and try and

Page 890 determine the costs related to it. 2 We, as well, similar to CP, believe that 3 in most cases we're actually undercharging compared to our costs for said service. 5 COMMISSIONER OBERMAN: But, when you set 6 the amount, which is 150? 7 MR. COURTOREILLE: So, actually just a 8 point of clarification on the amount. So, we 9 actually have different amounts based on the 10 terminal, so it was mentioned before the Chicago 11 terminal, and Vancouver areas have higher rates 12 because those are key -- they're the heart of our 13 respective networks in Canada and the United States. 14 We are trying to drive the right behavior 15 and it is our view that a higher charge in those 16 areas drives that behavior. 17 COMMISSIONER OBERMAN: Well, it's \$300 in 18 Chicago. 19 MR. COURTOREILLE: It is not, it is \$170 20 for a system car. 21 COMMISSIONER OBERMAN: 22 MR. TAYLOR: And it's \$120 for a private

Page 891 1 car. 2 COMMISSIONER OBERMAN: For the 170, did 3 you calculate at the time you determined that to be 4 170, that a portion of that was for costs, 5 compensation and a portion of it was for penalty? 6 Or, did you just not make that analysis, that's what 7 I'm trying to get at. MR. COURTOREILLE: I don't have that 9 information. I believe we did do an analysis, I just 10 -- I cannot give you the breakdown of what that cost might be, specifically for Chicago. 11 12 COMMISSIONER OBERMAN: How about any other 13 place? 14 MR. COURTOREILLE: Not with me today. 15 COMMISSIONER OBERMAN: Alright, can you 16 provide us with that information if you did make --17 I'm not asking you to go out and make a new 18 calculation, I want to know if you made a calculation 19 before these hearings started to separate out the 20 If you didn't okay, and if you did, I'd amounts. 21 like to know what it is.

22

MS. GAINEY: We can respond to this

Page 892 question after and under seal. 2 COMMISSIONER OBERMAN: Okay, the free time 3 currently on the BN is --4 MS. MULLIGAN: So, it depends on the 5 equipment involved. So, for railroad-owned 6 equipment, in that instance you have a shipper who is 7 responsible -- potentially responsible on the clock 8 for demurrage purposes for when it's sitting in our yard, so when it's constructively placed and when 10 it's actually placed. 11 And so, for an empty car that's being 12 loaded, there's a 24-hour or one credit assigned to 13 that. For unloading, that's a process that often 14 takes longer, it's 48-hours or two credits, and so 15 that's for your railroad equipment. 16 COMMISSIONER OBERMAN: Okay. 17 MS. MULLIGAN: Now, when you switch to 18 private equipment -- this is something I think is 19 helpful to give a little information about. So, 20 private equipment we do actually offer less free time 21 and part of that is because there's actually only 22 constructive placement time that you're on the hook

- for, because when it's your own equipment, once we
- actually place it at your facility, then you're not
- on the clock for demurrage.
- So, it makes sense that there's a
- 5 differential between a railroad car and a private
- 6 car, because you're not trying to account for the
- 7 actual loading and unloading, you're only dealing
- 8 with when it's sitting in the yard.
- 9 VICE CHAIRMAN FUCHS: To make sure I
- 10 understand that, for the unloading -- and so the
- difference is it's 2 versus 1 credit -- yeah okay,
- because I've been kind of wondering this, you've
- 13 heard me wonder this question.
- Okay, so are the 2 credits broken up such
- that 1 of the 2 is only for CP or constructive
- 16 placement?
- MS. MULLIGAN: No.
- VICE CHAIRMAN FUCHS: So, in that sense,
- 19 you still could get a marginal benefit for being a
- 20 railroad -- a system car relative to private car such
- that there are scenarios where you can be 2 days in
- 22 CP and 1 day if you could unload really quickly?

Page 894 MS. MULLIGAN: Yes, exactly, and we don't 2 -- so sticking with railroad equipment for a second. 3 Our approach there is -- and it's applicable also for 4 private, but our approach is once you come into a 5 yard after the actual day of placement, then we are paying attention and you have a credit that gives you 6 7 that -- for I'll stick with the loaded. 8 VICE CHAIRMAN FUCHS: MS. MULLIGAN: That gives you 2 days to do 10 that and we don't -- what we do is we see you come 11 into the yard, and you go into constructive 12 placement. So, we start the clock, you know, after 13 the point where your free time is gone. 14 VICE CHAIRMAN FUCHS: Sure. 15 MS. MULLIGAN: Then, as soon as you 16 request that, you go off the clock. 17 VICE CHAIRMAN FUCHS: The clock stops. 18 MS. MULLIGAN: It stops and so if you're a 19 piece of railroad equipment, then if we bring it 20 right to you, if we miss a switch, if we, you know, 21 if you're open -- you release it on Friday, but 22 you're not open until Sunday, you stay off the clock

Page 895 until when we actually place it. 2 VICE CHAIRMAN FUCHS: I understand. 3 MS. MULLIGAN: And then we blend the two 4 times together, so you do have the flexibility to 5 make up if you're long on CP, you make it up on the 6 actual placement side. 7 VICE CHAIRMAN FUCHS: Right. MS. MULLIGAN: So, we don't try to 9 micromanage that between the two. 10 VICE CHAIRMAN FUCHS: Alright, I 11 understand it now, thank you. 12 COMMISSIONER OBERMAN: You were about to 13 say what the free time was for private cars? 14 MS. MULLIGAN: Yes, so for private cars, 15 you get the benefit of the actual placement, which I 16 recognize if you're getting it right at midnight, 17 that's a half a minute. And then you would go onto 18 the clock. 19 COMMISSIONER OBERMAN: How long is the 20 clock. 21 MS. MULLIGAN: Sorry, there's zero free 22 time, so you are on, but if I could explain one thing

- $^{
 m l}$ as well. We have different types of facilities and
- 2 so 85% of our facilities are spot on arrival
- facilities, and so that means they're not in CP
- 4 unless they don't have a space.
- 5 And so, when something is coming into our
- 6 pipeline, they have said to us, we are spot on
- 7 arrival, and so if I've got 5 track spaces open, you
- 8 can bring it on in. And we adjust for, if not open
- 9 on Saturdays and Sundays, but so you can actually
- designate yourself as a spot on arrival facility in
- which case you don't get constructive placement
- unless you have zero space at the facility.
- 13 COMMISSIONER OBERMAN: But the zero free
- 14 time to that degree sounds like it's the same policy
- 15 as NS, is that right?
- MS. MULLIGAN: I'm not sure, I'll be
- 17 honest with you, I don't --
- 18 COMMISSIONER OBERMAN: Okay.
- MS. MULLIGAN: I pay attention to our
- 20 policy.
- 21 COMMISSIONER OBERMAN: It sounds like it
- 22 to me and how long --

Page 897 1 MS. MULLIGAN: It is a zero free time 2 policy, that's absolutely true and it has been since 3 2015. COMMISSIONER OBERMAN: Well I was going to 5 ask you, how long have these free times been in 6 effect? All of them since 2015 this way? 7 MS. MULLIGAN: We haven't and possibly 8 even earlier, we haven't changed anything since that 9 period. 10 COMMISSIONER OBERMAN: So, it's at least 11 since 2015? 12 MS. MULLIGAN: Yeah. 13 COMMISSIONER OBERMAN: Alright and I'm 14 going to come back to you in a minute, but I'd like 15 to go down the line and get the same answers. Pam, 16 what is your free time? 17 MS. ARPIN: It differs, it's almost 18 exactly the same as what Jill described. We have 19 zero free time for privates -- that being said, we do 20 have open gate, which is the same as placed on 21 arrival where we do provide a credit for that too and 22 as well if you switch your own facility you get

Page 898 another credit, so there are opportunities. 2 COMMISSIONER OBERMAN: And for the system 3 cars, it's 24 and 48? 4 MS. ARPIN: It's 24 and 24 for ours. 5 COMMISSIONER OBERMAN: Okay. 6 MS. ARPIN: Yeah. And our policy has been 7 in place since 2013. 8 COMMISSIONER OBERMAN: Okay, and how about 9 CN? 10 MR. COURTOREILLE: So, for CN it's 1 11 credit day for loading, 1 for unloading for system 12 cars. 13 COMMISSIONER OBERMAN: 24 and 24? 14 MR. COURTOREILLE: Yes, and for private 15 cars, so we have a slightly different definition of 16 free time. Ours is actually aligned to the service 17 window, so an example might be if a car arrived on 18 the weekend and the customer is normally serviced 19 Monday, Wednesday and Friday, they have until 4 hours 20 before their service window would start, so again, 21 the service on Monday, let's say from 8 a.m. to 4 22 p.m., if they order the car in before 4 a.m. on

- 1 Monday for that first day's service, they do not pay
- 2 any demurrage.
- So, in that example, the car was CP'd on
- 4 Saturday, they would have all day Saturday, Sunday
- 5 until Monday morning at 4 a.m. to order the car in
- 6 before incurring charges.
- 7 COMMISSIONER OBERMAN: Okay, and if it
- 8 comes in on Monday, so I'm lost.
- 9 MR. COURTOREILLE: Okay, sure, so if it
- 10 comes in Monday, so and the next service is
- Wednesday, they would have until 4 hours before the
- Wednesday start of their service.
- 13 COMMISSIONER OBERMAN: But it depends on
- 14 your service plan for that or the days of service for
- 15 that particular customer when the clock starts?
- MR. COURTOREILLE: Yes, it's personalized
- in that regard.
- 18 COMMISSIONER OBERMAN: Okay, so it's not
- 19 zero for very many people it sounds like, unless --
- MR. COURTOREILLE: As I mentioned earlier,
- 80% of our customers do not pay demurrage.
- 22 COMMISSIONER OBERMAN: Well, are you

Page 900 implying that for people with zero they end up paying 2 demurrage? 3 MR. COURTOREILLE: No, I'm not, sorry. COMMISSIONER OBERMAN: Okay, well is it 80% of your customers who don't have zero free time? 5 6 MR. COURTOREILLE: That's a mix between 7 the system and private cars, so. 8 COMMISSIONER OBERMAN: And how long has 9 this program, the 24 and 24 plus the complex 10 description here for private cars, how long has that 11 been in place? 12 MR. COURTOREILLE: The actual style of 13 ordering in has been in place for at least 4 years and the credits have -- we changed the credit from 2 15 to 1 days on loading in January of this year. 16 COMMISSIONER OBERMAN: Say that again, the 17 credit? The credit --18 MR. COURTOREILLE: The credits for the 19 system cars on unloading went from 2 to 1 in January 20 this year. 21 COMMISSIONER OBERMAN: Well it was like

22

BN's prior to January 1 for unloading.

Page 901 MR. COURTOREILLE: Yes. 2 COMMISSIONER OBERMAN: Because I'm looking 3 at the numbers and I'm trying to match up the numbers 4 with the practices, so let's go back through the 5 panel here. BN, your -- Jill, your yearly demurrage has gone up 50% in the time period or since before 6 7 your time period, at least 2015 you said, it's gone 8 from -- well maybe you went up in 2015, because it 9 was 134 million in 2014 and it's been close to 200-10 million, went down a little bit in 2017 since then. 11 So, was there a change between 2014 and 12 2015? 13 MS. MULLIGAN: Are you talking about the 14 annual revenues that we forwarded? 15 COMMISSIONER OBERMAN: Yeah, I'm looking 16 at the table. 17 MS. MULLIGAN: We feel pretty comfortable 18 that the changes in the amounts that we collect are 19 reflective of changes in volume and mix, not changes 20 in the rules or changes in the dollar amounts that 21 we collect. We have more traffic frankly, that's 22 moving, and so, there's more.

Page 902 1 COMMISSIONER OBERMAN: So, the more 2 business the customers do with you, the more they pay 3 for demurrage? MS. MULLIGAN: Well, no, I mean the more 5 units that are on the system. 6 COMMISSIONER OBERMAN: Well, that's the 7 more business they're doing, that's how units get on 8 the system. MS. MULLIGAN: Yes. 10 COMMISSIONER OBERMAN: I mean you went 11 from the first quarter of last year to the first 12 quarter of this year, you increased from 46 million 13 to 56 million, or actually 47 to 57, that's a pretty 14 hefty increase quarter to quarter. 15 MS. MULLIGAN: But I also think within 16 that period --17 COMMISSIONER OBERMAN: So, what caused 18 that? 19 MS. MULLIGAN: I think actually, now I'm 20 looking for the numbers very quickly, but I think the 21 -- if I'm not misremembering our data, there's 22 actually a fair amount of variability within the

Page 903 1 calendar year. 2 COMMISSIONER OBERMAN: No, it's only up. 3 It went from 47 million to a little over 47 to 56, 4 I'm sorry it did go down to 54. 5 MS. MULLIGAN: Yeah. 6 COMMISSIONER OBEMAN: And then it went up, 7 but I'm assuming it's fair to compare quarter to 8 quarter, because winter is different than summer. MS. MULLIGAN: It's not just seasonality, 10 it's the mix of our business, are we moving a lot of 11 unit trains, are we moving a lot of single, a lot of 12 privates on our system, I mean there's huge amounts 13 of variability and it's not just seasonality. 14 COMMISSIONER OBERMAN: I mean are the 15 customers -- you know, this is an incentive program, 16 we all agree with that? 17 MS. MULLIGAN: Yeah. 18 COMMISSIONER OBERMAN: So, what happened 19 to the customers in the last year on your line or 20 over the you know, the last 4 quarters, to change 21 their behavior to stop being incentivized because 22 they're paying more, so the incentive isn't working,

- 1 I don't get it.
- MS. MULLIGAN: I don't think actually
- we've seen that the incentive is not working. I
- 4 think that what we see is in terms of the folks who
- 5 were collecting demurrage, and we pay, let me say we
- 6 pay extremely close attention to who is paying
- 7 demurrage and why.
- 8 I mean I think that if we -- and for the
- 9 reasons I described in my testimony, it's because we
- do think that there are situations where with better
- information and better understanding of our rules,
- 12 customers can change their exposure to demurrage
- without capital investment, so I think that's an
- important element.
- 15 And because of that, we do spend a lot of
- time on root cause analysis associated with that.
- 17 And in talking with our teams who are responsible for
- that, they are pretty comfortable that that is
- driven by changes in volume, it's a traffic mix.
- 20 COMMISSIONER OBERMAN: Well, it is
- 21 puzzling to me because your railroad is the one that
- 22 at least it says, that's not, and I assume that's

- accurate, didn't jump on the PSR bandwagon, at least
- full blown, as least as others, and we don't have a
- 3 lot of complaints about it, but the charges just seem
- 4 to me there's been a significant increase without a
- 5 change in the free time program, so I can't figure
- 6 that out.
- 7 MS. MULLIGAN: And I think I'll just stick
- 8 with what I said, it moves in relation to volume
- 9 across our railroad and we don't necessarily have
- 10 consistent volume from quarter to quarter because a
- 11 change in mix and demand and all sorts of things.
- 12 COMMISSIONER OBERMAN: Is your volume up
- 13 25% from first quarter of 2018 to the first quarter
- of 2019, for those quarters not much difference in
- 15 price?
- MS. MULLIGAN: But I think it also came
- down in the intervening period, so.
- 18 COMMISSIONER OBERMAN: A little bit, but
- quarter to quarter you're at 10 million dollars more
- in demurrage this quarter than you had the first
- quarter of 2018, so is that all based on a
- 22 difference in volume between those two quarters?

Page 906 1 MS. MULLIGAN: In terms of my 2 conversations with our internal experts, it's largely 3 driven by volume. 4 COMMISSIONER OBERMAN: You know, I don't 5 have it in front of me, let's take a look at the 6 volume numbers and see if that's -- if those graphs 7 go together. Let me go to CP. I see a similar 8 problem or pattern anyway in your first quarter 2019 9 demurrage is 11 million, first quarter 2018, it was 4 10 I mean what's the cause of that. 11 MS. ARPIN: So, per our testimony in 12 those numbers the way they were sent to you. 13 include container storage as part of demurrage, it's in that envelope and over half of the dollar value 15 for March or from January to March 2019 is container 16 storage. 17 COMMISSIONER OBERMAN: And container 18 storage went up --19 MS. ARPIN: Container storage has gone up 20 as a result of volume that we've secured in terms of 21 international agreements on the intermodal side. 22 COMMISSIONER OBERMAN: So, you're saying

- that you're charging people for leaving containers on
- the ground, is that what they're paying for?
- MS. ARPIN: They are being paid, it's a
- 4 service that we provide where they can store their
- 5 equipment at our terminal, yes.
- 6 COMMISSIONER OBERMAN: So, is that really
- 7 -- it's really not demurrage, in the traditional
- 8 sense is it?
- 9 MS. ARPIN: It is not.
- 10 COMMISSIONER OBERMAN: I mean you're not
- 11 trying to incentivize them to not do that?
- MS. ARPIN: No, it's a supplemental
- 13 service and we can break that out differently for
- 14 you.
- 15 COMMISSIONER OBERMAN: I would be
- interested if you could break out the demurrage
- 17 that's the incentive to change behavior part of your
- 18 numbers.
- MS. ARPIN: I have that number, if you
- would like it, but we can do that going forward in
- 21 terms of the information we provide.
- 22 COMMISSIONER OBERMAN: Okay, yeah rather

- 1 than taking up the time now, why don't you send us
- 2 something on it.
- MS. ARPIN: Okay.
- 4 COMMISSIONER OBERMAN: And for CN, there's
- 5 also, it's just an interesting trend here, you were
- 6 10 million demurrage first quarter of 2018 and 19
- 7 million, it's almost double first quarter 2019, how
- 8 does any of the three of you, how does that get
- 9 explained?
- MR. COURTOREILLE: So, I apologize we
- didn't bring the 2019 quarterly numbers, but I'm
- 12 looking at the last 3 years in the Board requests of
- 2016, 17, and 18 and we're effectively flat.
- 14 COMMISSIONER OBERMAN: That I see. But
- 15 2019, first quarter is \$19,640,000.
- MR. COURTOREILLE: Yeah, so there is a lot
- of seasonality to the numbers. Winter, because of
- 18 conditions, we generally see a much higher charge and
- in later quarters it's reduced, so I think if we had
- to, you know, forecast what 2019 would be, it would
- 21 be very similar to the previous 3 years.
- 22 COMMISSIONER OBERMAN: Let me tell you

Page 909 this, based on the previous 3 years, you've only got 2 12 million dollars to go for the next 3 quarters of 3 2019. So, you better keep that demurrage charge, I 4 mean if that's really going to stay flat it's a 5 significant change. 6 Let me shift gears here, because I don't 7 want to run out of time, keeping you all here. 8 you made a statement, which I find interesting, and I've asked others about it and I'm going to ask some 10 questions about it -- that the Congress requires rail 11 carriers to charge demurrage and I'd sort of like to 12 find out why you came to that conclusion? 13 MS. ARPIN: So, I think what I said is 14 "long recognized demurrage a necessary mechanism to 15 ensure a fluid rail network" -- not that we require. 16 COMMISSIONER OBERMAN: No, here's what you 17 said in your written statement. I think you actually 18 said it today, on page 6, "Congress requires that 19 rail carriers charge demurrage in order to ensure 20 adequate car supply." I'm sorry, isn't that your 21 statement or is that CN's?

22

MS. ARPIN: I see on page 6, yes, Congress

- 1 requires.
- 2 COMMISSIONER OBERMAN: Yep, and I think
- you read it or said it orally here, but it's in your
- 4 written statement, I highlighted it. So, where does
- 5 that come from?
- 6 MS. ARPIN: So, I think more the
- 7 perspective I was trying to provide is in relation to
- 8 the comment that I made on the first page, or I
- 9 should say the second page, is that it's long
- 10 recognized that this is a mechanism to ensure a fluid
- 11 rail network, so perhaps not the best use of words on
- 12 page 6.
- 13 COMMISSIONER OBERMAN: It's important
- 14 because you're not the only railroad that's made that
- 15 representation and I'm -- I mean you're not
- suggesting that if CP said you know, we don't need
- demurrage anymore so we're just not going to charge
- it, you'd be in violation of the law, you're not
- 19 suggesting that, are you?
- MS. ARPIN: Not suggesting that at all.
- 21 COMMISSIONER OBERMAN: Alright, so I'm
- 22 going to take this as a friendly amendment to the

Page 911 word "requires" --2 MS. ARPIN: --- Absolutely --3 COMMISSIONER OBERMAN: Is that a fair 4 statement on your part? 5 MS. ARPIN: That's a fair statement, yes. 6 COMMISSIONER OBERMAN: I want to shift to Kathy and ask you the same question. Is it your view 7 8 that your railroad is required to charge demurrage? MS. GAINEY: We believe it's important for 10 CN to charge demurrage in appropriate circumstances 11 to customers to incentivize them to unload and load 12 cars quickly so that they can be released back into 13 the national supply chain. 14 COMMISSIONER OBERMAN: Being important is 15 a separate concept than whether the statute mandates 16 that you charge it. 17 MS. GAINEY: Demurrage is expressly 18 authorized by statute under 10746 and I believe the 19 phrase in the statute is "shall compute." 20 COMMISSIONER OBERMAN: Compute but not 21 charge, would you agree? 22 MS. GAINEY: One could argue that shall

Page 912 1 compute, if you're going to actually incentivize 2 railcars to move fluidly throughout the network, 3 through efficient loading and unloading at 4 facilities, that one would need to invoice a customer 5 in order to incentivize behavior, in those 6 circumstances where demurrage invoices are 7 appropriately assessed. COMMISSIONER OBERMAN: Well, I really want 9 to press on this issue because I think it's quite 10 important for how we deal with it under both the 11 statute and our regulation, so I'm going to press 12 you a little bit on it with all due respect. 13 If you chose -- I'm going to ask you the 14 same question I just asked Pam, if CN said you know 15 what we're not going to charge demurrage anymore, 16 would you be in violation of the law? 17 MS. GAINEY: I don't know that we would be 18 in violation of the law, but it would not be 19 incentivizing the railcars to move --20 COMMISSIONER OBERMAN: -- That's a 21 separate point --22 MS. GAINEY: -- on the network to be

Page 913 loaded and unloaded as efficiently as possible, and 2 where our overall goal is to maximize the capacity of 3 the existing assets and encourage customers to load and unload their equipment quickly, and improve 5 network fluidity, it would not accomplish the 6 statutory goals that Congress has laid out, or our 7 own goals that benefit the entire supply chain. COMMISSIONER OBERMAN: I understand that, 9 I am really trying to separate this out, if you'll 10 humor me on this. I want to know if the statute, in 11 your view, requires you to charge demurrage period. 12 Do you have an opinion one way or the other? 13 MS. GAINEY: Railroads are authorized to 14 charge demurrage --15 COMMISSIONER OBERMAN: Authorized. 16 MS. GAINEY: -- under the statute, 17 expressly authorized to do so. 18 COMMISSIONER OBERMAN: I didn't ask if you 19 were authorized. We all agree you're authorized, I'm 20 asking you if you're mandated, could you just give me 21 an answer? If you can't answer it, then tell me if 22 you want to research it more, but I think it's an

- 1 important question that shows up in Pam's testimony,
- and it shows up in your lawsuit with Kinder Morgan,
- 3 and that's why I'm asking the question.
- 4 MS. GAINEY: Our complaint in Kinder
- 5 Morgan intended to describe and summarize the
- 6 statutory provision of 10746.
- 7 COMMISSIONER OBERMAN: Your complaint says
- 8 that 746 -- under 746 CN, "Has an obligation to
- 9 compute," you said that. "And to enforce," that's
- what the complaint says -- paragraph 10. So, if you
- didn't enforce the demurrage rule, is it your view
- 12 that you would be violating the statute?
- MS. GAINEY: I don't know that I would say
- that we would be violating the statute, but we
- wouldn't be encouraging customers and terminals to
- 16 load and unload the equipment as quickly as possible.
- 17 COMMISSIONER OBERMAN: Well that's a
- 18 separate question it seems to me. By not charging
- 19 the full cost as Keith said, and everybody seems to
- 20 say, and your demurrage rate, do you think you're not
- enforcing the Congressional policy of behind
- demurrage?

Page 915 MS. GAINEY: No, we're trying to 2 incentivize customers and terminals to load and 3 unload equipment as quickly as possible, even if that 4 means that the full cost of that equipment dwelling 5 in a yard cannot be recovered, the important thing is 6 about incentivizing the behavior to try to encourage 7 customers and terminals to organize their actions in 8 a way that will enable them to load and unload the 9 equipment as quickly as possible. 10 COMMISSIONER OBERMAN: Well, would you 11 agree that the railroads have leeway into how much to 12 charge in demurrage? You don't have to recover your 13 whole costs, none of you do when you don't think 14 you're violating the statute right? 15 MS. GAINEY: Correct, railroads have 16 discretion in setting their demurrage policies so 17 long as they're reasonable. 18 COMMISSIONER OBERMAN: Reasonable to the 19 customer. 20 MS. GAINEY: Reasonable to the Board. 21 COMMISSIONER OBERMAN: To the Board? 22 MS. GAINEY: Yes.

Page 916 COMMISSIONER OBERMAN: So, if you set your 2 demurrage charge of \$5, and we thought it was 3 reasonable, that'd be okay? MS. GAINEY: I don't believe \$5 demurrage 4 5 would incentivize customers to load and unload the 6 equipment as quickly as possible. 7 COMMISSIONER OBERMAN: That's not my 8 question. My question is if you decided to charge \$5 9 voluntarily, and we said that's fine, then we'd all 10 be okay under the statute? 11 MS. GAINEY: It would be okay under the 12 statute, but that wouldn't necessarily suggest that 13 \$5 is a limit on the future amount that might be 14 appropriate to be charged, it wouldn't enable you to 15 conclude whether or not that was a ceiling. 16 COMMISSIONER OBERMAN: I'm not suggesting 17 \$5 is the right amount, I'm trying to understand the 18 law here, or at least your view of it, and the 19 railroad's view of it so we can have some guidance 20 going forward. 21 Let me shift gears, I'll start with you 22 Kathy, and come back down. Is it your view that in

Page 917 order to be liable for demurrage charges, the shipper 2 or receiver, or whoever is getting the bill, must be 3 shown to be the cause of the delay? MS. GAINEY: Under the case law, the 5 burden is on the carrier as a complainant in a 6 demurrage collection case, to show how the charges 7 are computed, and the date that the car was placed in 8 actual placement or constructive placement and then the burden shifts to the respondent, to indicate 10 whether or not those charges were unreasonable. 11 COMMISSIONER OBERMAN: With all due 12 respect, Kathy, you didn't answer my question. Му 13 question is does somebody have to show that the 14 person, the entity being billed for the demurrage, is 15 the cause of the delay? I didn't ask you who had the 16 burden, that's another question, it's something I'm 17 quite interested in, but I'm really trying to find 18 out if approximate cause or any cause concept is 19 required before demurrage can be collected. 20 MS. GAINEY: Under, as Keith explained 21 earlier, under our pre-invoicing and invoicing 22 process, if CN is responsible, CN credits the

Page 918 customer and that is not treated as demurrage. 2 COMMISSIONER OBERMAN: I really didn't ask 3 your practice, I asked what you think the law 4 requires. Does it require that the person receiving 5 or the entity or whoever's getting the bill and 6 expected to pay for it, be shown -- who has the 7 burden is a separate question, ultimately to be found 8 by whoever's going to rule on it to be the cause of the delay in order to be liable for the charge. 10 that the requirement under the law to your 11 understanding? 12 MS. GAINEY: My understanding is that in a 13 straightforward -- and we view these, as by the time 14 you get to the point where you're actually in 15 litigation with a customer, we have gone through our 16 informal dispute resolution process where CN has a 17 detailed review with our customers about what has 18 happened in individual circumstances of those 19 particular invoices, and has made adjustments as 20 appropriate. 21 And if at the end of that process, if 22 we're not able to reach agreement with the customer

- $^{
 m l}$ and we do have to that that next step of going to
- litigation, at that stage it's a matter of
- demonstrating when the car was put into actual
- 4 placement and constructive placement and how the
- 5 charges were computed, because the information has
- 6 already been gathered and analyzed and looked at
- 7 about circumstances of the particular service at that
- 8 stage.
- 9 COMMISSIONER OBERMAN: Does that include
- 10 your showing that the customer that you're suing was
- the cause of the delay, is that part of it?
- MS. GAINEY: To use an example, it would
- be a situation, for example, where a customer is not
- able to take in the amount of cars that have come to
- that facility and they're dwelling in CN's yard and
- 16 so the customer has not been able to unload the cars
- 17 quickly enough and thus has incurred a demurrage
- invoice on those cars that are dwelling in CN's yard.
- And in that circumstance, we believe it's
- appropriate for the customer to pay the demurrage
- 21 invoice.
- 22 COMMISSIONER OBERMAN: Even if their

Page 920 failure to take them in wasn't their fault? 2 MS. GAINEY: These are very factual 3 circumstances that are particular to every individual 4 case that depend upon the circumstances. But, in our 5 view, by the time we get to the point where we file 6 the complaint against the customer and we haven't 7 been able to resolve it informally, through our many 8 detailed dispute resolution process discussions, at 9 that stage we believe it's appropriate for the 10 customer to pay the invoice. 11 COMMISSIONER OBERMAN: Kathy, with all respect, I really feel like we're going around in 12 13 circles. Can we just get to this question of whether -- what I'm trying to get at here, it should be 15 obvious, is whether there's some strict liability if 16 there's simply a difference in time, or if there has 17 to be some showing of fault or cause that the 18 customer did in order to be liable. 19 Suppose nobody's at fault, is the customer 20 still liable? 21 MS. GAINEY: CN works with our customers 22 in individual situations.

Page 921 1 COMMISSIONER OBERMAN: You know what, I 2 can't get an answer, I'll just move on to Pam. 3 MS. GAINEY: Okay. COMMISSIONER OBERMAN: Pam, do you have a 5 view as to whether there's any requirement that the 6 customer be the cause of the delay before they're 7 liable for demurrage? 8 MS. ARPIN: So, first I'm going to start 9 by saying I am not a lawyer, but I am going to answer 10 this based on our processes. 11 COMMISSIONER OBERMAN: Pam, let me say 12 It is a question that has legal aspects to it, this. 13 although I don't think it's entirely legal, so if 14 you're not comfortable, I don't want to put you on 15 the spot of answering the question, so. 16 MS. ARPIN: I think you're asking it from 17 a legal perspective and so I'm not sure I'm going to 18 fulfill it correctly. 19 COMMISSIONER OBERMAN: That's fine, it's 20 not fair to get you involved in a legal discussion 21 unless you feel comfortable wanting to answer it. 22 MS. ARPIN: I don't feel comfortable

Page 922 1 answering it. 2 COMMISSIONER OBERMAN: Okay, then I'm not 3 going to -- do you want to, Patrick says your 4 lawyers, do whoever that is wants to respond? 5 MR. WEBSTER: We don't think it's an 6 appropriate question in this proceeding, Member 7 Oberman, and --8 COMMISSIONER OBERMAN: Because? MR. WEBSTER: Well because you're asking 10 us in a vacuum to make a legal opinion without 11 context, without a case, without preparation and 12 completely without notice. 13 COMMISSIONER OBERMAN: Well, I guess it's 14 fair to say I didn't send out a written notice of the 15 questions that I was going to ask, but it seems to me 16 the concept of cause and fault is replete throughout 17 the case law in this area which I've studied and many 18 others have studied. 19 So, I'm not asking about a specific case, 20 I'm just asking you generally, whether your view is 21 that demurrage is a strict liability situation or 22 there has to be some component of causation or fault.

Page 923 1 MR. WEBSTER: If you give us an 2 opportunity, we'll respond. 3 COMMISSIONER OBERMAN: Alright, I would 4 appreciate that. I'd like to be edified of your 5 view, I'm certainly not the last word or even the 6 first word on it, Jill, do you want to take a crack at this question? MS. MULLIGAN: I will. So, in direct 9 response, it's not a strict liability standard in the 10 law or in practice. I do think that the law requires 11 -- the case law and decisions by the STB have 12 required that railroads consider situations where 13 they're at fault. And so I think that, you know, 14 programs, when we pursue the inquiries that we do 15 before we remit a bill, we think that we're 16 consistent with the law. 17 We go beyond that too, I mean we've got --18 we have language in our tariff talking about force 19 majeure, so when something's beyond the control of a 20 shipper we do have language excusing that. I think -21 22 COMMISSIONER OBERMAN: So, you're saying

- if nobody's at fault by an act of nature, there's no
- demurrage liability?
- MS. MULLIGAN: There's an opportunity for
- 4 a shipper to say "I should not be on the hook for
- demurrage." Yes, the shipper is able to come in and
- 6 say there's a force majeure event at my plant, or on
- ⁷ the railroad or something like that and so, they have
- 8 that opportunity.
- 9 In reality, we're already dealing with
- those on the front end. I mean we know when we're in
- a flooding situation, things like that. So we do
- 12 account for that before things go out the door as
- 13 best we can.
- And so, like I said, I think we're
- 15 appropriately focused on assessing when there's
- 16 railroad fault in our practices.
- 17 COMMISSIONER OBERMAN: Let me ask all
- three if you have a view as to whether the railroad
- 19 should have an obligation of some kind of due
- diligence to investigate the actual cause of the
- delay, or what appears to be a demurrage situation,
- 22 before you send the bill. And if so, how much due

Page 925 diligence, if you can describe it. 2 MS. MULLIGAN: Yeah. 3 COMMISSIONER OBERMAN: Because the reason 4 I ask the question is that I thought I heard, and 5 maybe I mis-heard and maybe not from the three of you, that some demurrage bills just get churned out 6 by the computer if the time clock over here and the 7 time clock over there show an excess of time, then the computer spits out a demurrage bill. And then 10 the customer has to go to great lengths to figure out 11 why that happened and un-prove it. 12 So, I'm not suggesting that is what your 13 railroads do, what I'm really wanting to know is what 14 you think railroads should do before a demurrage bill 15 is sent out along these lines, sort of investigating 16 -- pre-billing investigation. 17 MS. MULLIGAN: So, I think even before you 18 get to a legal standard, our people, I mean they do 19 think about commercial reasonableness when they 20 approach things. And so part of the process that 21 we've pursued is because we think that that's 22 commercially reasonable and I think that also

- dovetails with what the STB may consider as
- 2 reasonableness.
- So, I think that -- you know, does someone
- 4 need to do exactly what we do? Possibly not, I think
- 5 it depends on elements of their rules, elements of
- 6 their own data collection, what kind of network they
- ⁷ have. But for us, in terms of our customer
- 8 expectations, and in terms of what we think is
- 9 valuable to our customers and reasonable for them to
- 10 require us -- that has informed our practices, which
- is, frankly, a significant amount of review before
- 12 it goes out the door.
- 13 COMMISSIONER OBERMAN: Thank you. Pam, do
- 14 you have a view on that?
- MS. ARPIN: Yeah, similarly and per
- testimony, we do. My team actually pre-builds all
- of our local trains for the operating team and then
- we audit those trains in terms of what was actually
- 19 moved in terms of spotting requests or pulls for the
- 20 customer.
- On top of that, customers have visibility
- within our [Customer] Station to see credits that are

- 1 applied against every single car and to see the
- 2 status of the car at any given time, and to log an
- issue with us. So, there's a lot of pre-work that
- 4 is done before an invoice even goes out. So, the
- 5 short answer is we do a lot of pre-work before an
- 6 invoice goes out.
- 7 COMMISSIONER OBERMAN: My question is
- 8 should that be a requirement, as an industry
- 9 practice?
- MS. ARPIN: I think that will totally
- depend on each railroad's technology and what
- information they provide to the customer up front. I
- 13 can't answer on behalf of the other roads. I can
- just tell you what we do and --
- 15 COMMISSIONER OBERMAN: Well, I'm really
- 16 asking in terms of what would be a reasonable
- 17 practice for the Board to consider imposing before a
- demurrage bill goes out. Some degree, you know,
- 19 just to extrapolate, and I'm not suggesting this
- 20 should be the standard at all, but we all know before
- you file a lawsuit you have to satisfy Federal Rule
- 22 11 and so forth, have a good faith basis for making

- ¹ your claim.
- I'm not suggesting a standard that strict,
- but I am asking whether there should be, somewhere
- 4 along that spectrum, as a requirement before you can
- 5 ultimately send a demurrage bill out if you haven't
- 6 worked it out. If you have a view on whether that
- 7 should be imposed, I understand.
- MS. ARPIN: Again, I would say that CP, in
- 9 practice, looks at a lot of those invoices, we audit,
- 10 we build the trains, we also have visibility within
- our systems. And it would be fully dependent on the
- technology of each of the roads around visibility to
- the pipelines and what's occurring as to how in depth
- 14 you would go into that, would be my perspective.
- 15 COMMISSIONER OBERMAN: Kathy?
- MR. COURTOREILLE: So, very similar to CP,
- we actually have a number of checks and balances
- before a bill is issued or an invoice is issued. We
- 19 have -- for every single switch or service failure,
- we have somebody that looks at the impacts, and makes
- 21 a determination of whether it is related to a
- 22 customer-caused issue or a C-N or rail-way caused

Page 929 1 issue. 2 COMMISSIONER OBERMAN: Do you think that 3 kind of approach or something like that should be a 4 required standard for the industry? 5 MR. COURTOREILLE: I can't answer whether 6 it should be required. I can tell you that it has 7 provided a level of transparency for customers, it's 8 been appreciated. It has reduced the overall level of I think, angst by customers. They have a deeper 10 picture into how we operate and how -- and what our 11 expectations are for them. So I think that policy 12 has helped us. 13 COMMISSIONER OBERMAN: Well, and I have to 14 say, you know, I'm not asking these questions in a 15 vacuum. We sat here for 2 days and heard customers 16 complain time and again that they got a bill and 17 they would have to drop everything they were doing 18 and put in a huge number of person hours and expense 19 and, as Ann pointed out, one hired a forensic 20 accountant to figure out if the bill was correct. 21 And the impression we've gotten, and I 22 don't think this applies to your three railroads, but

- 1 I'm sort of searching for whether there's a solution
- to the dilemma of a railroad just shooting a bill out
- and putting the entire burden on a customer to
- 4 figure it out and disprove it.
- 5 You're all saying you don't do that, and I
- 6 think that's good, but we're trying to figure out if
- 7 there's some way to level this off in the industry.
- 8 I don't know what happened there. Did I do that? I
- 9 talked too long.
- MR. COURTOREILLE: It's an emergency
- 11 alert.
- 12 COMMISSIONER OBERMAN: Patrick, did you?
- VICE CHAIRMAN FUCHS: Yeah, a couple of
- smaller things. Okay, so one of the things that was
- 15 mentioned in the last panel was the idea of like a
- 16 date and time stamp. Can you give a reaction to
- 17 that? Have you all heard the testimony?
- MS. MULLIGAN: Yeah, I heard it and as I
- 19 was listening to it, I was thinking through my review
- of the demurrage tool.
- VICE CHAIRMAN FUCHS: Yeah.
- MS. MULLIGAN: And I believe that's

Page 931 actually available in our demurrage tool. 2 you go, if you're a customer or a receiver -- so it's 3 not just a freight-paying customer, so this is 4 available to anyone who participates in the route of 5 movement -- you go in and you see all of your 6 shipments. 7 And to the extent they have been actually 8 placed, ordered in, et cetera, all of those time 9 stamps appear in the tool and then you have the 10 opportunity to, you know, through a drop-down menu, 11 and you talk about -- you know, put in comments. 12 VICE CHAIRMAN FUCHS: I'm listening, don't 13 worry. 14 MS. MULLIGAN: That sort of thing. 15 that like the hook? 16 VICE CHAIRMAN FUCHS: Do you want it to 17 be? 18 Shelter in place? Okay, let's shelter in 19 place. Are we sheltering in place right now? 20 CHAIRMAN BEGEMAN: There are windows in 21 here, so we probably want to move to the interior

hallways.

22

| | Page 932 |
|----|--|
| 1 | VICE CHAIRMAN FUCHS: Okay. |
| 2 | (Tornado warning.) |
| 3 | (Off the record 3:53 p.m.) |
| 4 | CHAIRMAN BEGEMAN: Good news, we just got |
| 5 | our second wind. Yes, pun intended. |
| 6 | COMMISSIONER OBERMAN: Pam, one of the |
| 7 | witnesses yesterday told us that CP has a fee of \$110 |
| 8 | for the privilege of your sending them a refund, is |
| 9 | that right? |
| 10 | MS. ARPIN: I wasn't aware that that was, |
| 11 | sorry, directed at us, maybe I missed that. |
| 12 | COMMISSIONER OBERMAN: I thought it was. |
| 13 | I may have, that's what my notes say. You don't |
| 14 | think you have such a charge? |
| 15 | MS. ARPIN: Not that I'm aware of. I'd be |
| 16 | happy if you gave me the customer's name to follow-up |
| 17 | with them. |
| 18 | COMMISSIONER OBERMAN: You know what, it's |
| 19 | in the transcript and I may have gotten the wrong |
| 20 | railroad. I wrote down CP but, just like the |
| 21 | railroads and the customers, I'm not perfect. |
| 22 | MS. ARPIN: If it was, happy to follow-up |
| | |

- with the customer on that.
- 2 COMMISSIONER OBERMAN: Whoever they were
- 3 talking about said it was a regular charge because I
- 4 asked the question of somebody but, okay, I wanted to
- 5 clear that up, thank you.
- 6 VICE CHAIRMAN FUCHS: Could I just kind of
- 7 give -- and I know that I've asked a number of
- 8 questions about it. And you all have been helpful for
- 9 kind of letting me know your perspective and helping
- 10 me understand your perspective, but I wouldn't want
- 11 to leave the hearing and talking to railroads without
- really understanding what you all view as reasonable.
- 13 And we've got, you know, 40-50
- 14 submissions, and almost everyone of them says "this
- is unreasonable, this is unreasonable, it's
- unreasonable. And different shippers and receivers
- 17 have put forward different reasons for it. And I
- understand that it's going to be a fact-specific
- 19 case, and I think that's fair, right, you know, and
- 20 so we have to be careful about blanket statements.
- But, you know, I think you can have fact
- 22 specific cases with criteria that are generally used,

- 1 right? I mean we have criteria that are used for
- reasonable rates, for example, that aren't fact
- 3 specific.
- And so, you know, I don't know if it's
- 5 giving me a set of facts that can help demonstrate a
- 6 point, or giving me criteria, but can somebody just
- 7 please help me understand. People are saying that
- 8 you all are unreasonable. And obviously you all have
- 9 made a determination that some of these practices are
- 10 unreasonable -- you all have made a determination
- these practices are reasonable. I just need to
- understand from you all. Can -- maybe a fact pattern
- of something that is unreasonable would help me
- understand what is reasonable.
- MS. MULLIGAN: So, I'll weigh in. And I'm
- going to disappoint you because I'm not going to go
- 17 from the fact pattern perspective, because I think
- 18 sometimes that reasonableness gets lost in that
- because you're focused on an individual situation
- with an individual shipper making choices, with a
- railroad making choices in a specific circumstance.
- So, that's not to mean that that's not

- 1 relevant and ultimately what you're looking at in an
- 2 adjudication, but in terms of the sort of -- I
- 3 absolutely get wanting to be able to say these are
- 4 sort of the tenets of reasonableness.
- I think that there's room to do that and I
- 6 think the Board has done that in some of their
- 7 decisions about demurrage and given some of those
- 8 perspectives. I think that one thing that I would
- 9 ask is that, if you're doing that type of a tenet,
- 10 and I'll get to some -- I'm not side-stepping it,
- 11 I'll get to some tenets -- but if you're doing that,
- 12 I think one of the dangers is plucking individual
- 13 aspects of a program and saying this passes, this
- fails, this is 24-hours, why isn't it 48-hours.
- I think one of the things that you have to
- 16 really think about is how does the entire program
- 17 look and feel. And so, I think the Board's already
- 18 kind of going there in terms of the questions that
- 19 you're asking. You're asking things about the -- are
- the rules clear and concise? Can someone look at
- them and say "okay, I know when I'm at risk of
- demurrage and I also feel like I'm being given

Page 936 access to information that allows me to adjust in 2 response to it." 3 I think a lot of our shippers -- it would 4 resonate with them in terms of having the rules be 5 clear and be rules of general applicability. I think 6 it matters to us in terms of administrating rules that rules are generally applicable, but I think also 8 it gives customers a sense of reasonableness as well, 9 when everyone's being treated the same. 10 And some people may not be completely 11 equally impacted and maybe that's because of the 12 level of service that we give, and so we make 13 adjustments to free time because of how we serve a 14 facility. But I think some of our shippers would be 15 nervous that there's going to be exceptions that 16 swallow the rule when -- especially for a railroad 17 that's had charges in place for so long that have 18 been consistent -- they have made a lot of good 19 decisions about how to manage their pipeline. 20 How to make sure that they're scaling the 21 business to the resources and when they're not, 22 thinking about how they deal with excess production

Page 937 1 capacity, et cetera. And so I think that that sort 2 of general applicability is the standard that I think 3 should be considered for reasonableness. I know you all are thinking about 5 timeliness to adjust. I do think that's important. 6 I mean I think there's a statutory minimum. 7 also think from a commercially reasonable 8 perspective, we always think about -- I mean there's 9 some situations where we can't wait because there's 10 some imperative and we need to move. 11 But I do think that when we establish 12 notice, we really think about why are we implementing 13 this charge? And if it's a turn on a dime and really 14 leaves people unable to respond, I think you can --15 that would send up some red flags -- but I think also 16 if a carrier is saying "I'm going to tell you what 17 the rule is, but then we're going to phase in and 18 deal with people who can't get there quick enough." 19 And so, I think there's -- that doesn't, I haven't laid out a formula. 20 21 VICE CHAIRMAN FUCHS: Yeah. 22 MS. MULLIGAN: And I know that may be a

- 1 little frustrating and I think those are elements
- 2 that matter.
- VICE CHAIRMAN FUCHS: And you don't
- 4 necessarily have to lay out a formula today.
- 5 MS. MULLIGAN: Yeah.
- VICE CHAIRMAN FUCHS: We can also follow-
- ⁷ up in further conversation, but you know, you all
- 8 have also done an analysis of what is reasonable
- 9 before it goes out there. You know what I mean, so
- 10 it's kind of --
- MS. MULLIGAN: Yeah, and I think that's
- part of why we're comfortable with some of our rules
- being a little bit tighter.
- 14 VICE CHAIRMAN FUCHS: Yeah.
- MS. MULLIGAN: Like on the zero time,
- because we have other aspects of our program that
- inform the reasonableness of that.
- VICE CHAIRMAN FUCHS: Including like, so
- 19 if you have something on the credit side, or when you
- 20 start and stop the clock, or what have you.
- MS. MULLIGAN: If you've got something
- 22 sitting in our yard and you put your hand up, you're

- 1 not going to be on the clock if we miss a switch, if
- you miss a switch, if you give it too late, if it's a
- 3 Saturday you're off. And so, we think that mitigates
- 4 that, and that's important.
- 5 VICE CHAIRMAN FUCHS: And so, what I'm
- 6 hearing from you is 4 tenets: It needs to be clear
- 7 and concise. The customer needs to have the
- 8 information necessary to adjust.
- 9 MS. MULLIGAN: Yeah.
- 10 VICE CHAIRMAN FUCHS: The treatment has to
- be the same, it has to be something of general
- 12 applicability for people of class, however defined.
- MS. MULLIGAN: Yeah.
- 14 VICE CHAIRMAN FUCHS: And there has to be
- 15 sufficient advance notice.
- MS. MULLIGAN: Yeah.
- 17 VICE CHAIRMAN FUCHS: Okay.
- MS. MULLIGAN: And I mean, I think also
- 19 the STB has also spoken about taking into
- 20 consideration railroad fault.
- VICE CHAIRMAN FUCHS: And then there's
- 22 fault.

Page 940 MS. MULLIGAN: Yeah. 2 VICE CHAIRMAN FUCHS: Okay, and now is 3 there any component of this tenet -- any other 4 railroads can jump in -- is there any component of 5 these tenets that involves an adjustment that is too 6 large to make? 7 MS. MULLIGAN: I'm not sure I follow. VICE CHAIRMAN FUCHS: You know, the 9 example that we, you know, kind of used a bunch of 10 times, but the person who's geographically 11 constrained, and basically, he has no extra, you 12 know --13 MS. MULLIGAN: -- Yeah --14 VICE CHAIRMAN FUCHS: -- let's say the 15 person's operating 7 days a week. I hate to go 16 there, but you know, operating 7 days a week, can't 17 expand track. It's really buy real estate and build 18 a new facility, or pay the demurrage, okay? 19 MS. MULLIGAN: Yeah. 20 VICE CHAIRMAN FUCHS: Is there something 21 we should be thinking of? And I don't mean to be 22 repetitive.

Page 941 MS. MULLIGAN: No. 2 VICE CHAIRMAN FUCHS: But it feels like 3 something's missing if we don't talk about the 4 magnitude of the adjustment. 5 MS. MULLIGAN: And I think that magnitude 6 of the adjustment is also informed by other things 7 than just the sort of binary situations that you set 8 out. VICE CHAIRMAN FUCHS: Yeah. 10 MS. MULLIGAN: Because one of the things 11 that we've had a lot of success with our shippers in, 12 is working with them to be able to use the tools that 13 we have out there to look at, you know, going to 14 your 5, 5, 5 situation. 15 VICE CHAIRMAN FUCHS: Yeah. 16 MS. MULLIGAN: 5, 5, 5, three different 17 originations, those go into the system. There are 18 times when a customer, even before -- and it's not 19 the majority, most of our shippers engage and manage 20 this -- but there are times where even before it hits 21 our network, you've put 15 into the system and based 22 on average release times at the destination, average

Page 942 1 transit times, you've signed up for a demurrage bill 2 because you're putting too much in. 3 That is -- and so I think there's some 4 opportunity to mitigate that without having to go 5 straight to --6 VICE CHAIRMAN FUCHS: So in my example, 7 the 5, 5, 5, what you are saying is "hey, that 8 customer, the Tuesday, Wednesday, Thursday, maybe 9 ship out on Friday, and you only get 10 back?" 10 MS. MULLIGAN: Yes, and I think the -- I 11 think in that situation I do think it's reasonable 12 for the customer to say "okay, well if you've had a 13 huge spike in your" --14 VICE CHAIRMAN FUCHS: And that's what 15 makes the trade-off, right? 16 MS. MULLIGAN: Yeah. 17 VICE CHAIRMAN FUCHS: And so, it's this --18 it's enormously complex, but you know, it's like 19 okay, well if they have to delay until Friday, right? 20 There's going to be a productivity loss at that 21 particular plant, right? And, at the same time, if 22 they don't delay to Friday, there's going to be a

- 1 productivity loss at your yard.
- And you know, and you all have the power
- 3 to avoid that productivity loss at your yard by
- 4 charging them, by incenting them to basically change
- 5 their calculus to move them to the --
- MS. MULLIGAN: Yeah.
- 7 VICE CHAIRMAN FUCHS: But they're going to
- 8 lose, you know, they're going to have a productivity
- 9 loss, right? And so, they're going to do that up
- until the point where whatever the demurrage bill's
- going to be, you know what I mean, it's going to be
- 12 relative to that productivity loss, I would think,
- 13 right?
- And so, and there's two things that make
- 15 me think. Like one is, you know, sometimes you might
- 16 not be able to shift in that particular way; I mean
- my 5, 5, 5 you might be able to. And the second
- thing is, then it becomes a relative gain between the
- 19 level of demurrage and productivity loss of the
- 20 plant, and that's the calculus they're making, and
- the calculus maybe the Board ought to be making. I'm
- 22 not saying --

Page 944 MS. MULLIGAN: Yeah. 2 VICE CHAIRMAN FUCHS: The Board, trying to 3 think about the national interest, is the calculus 4 between your productivity loss and their productivity 5 loss, not the calculus between a demurrage charge and 6 their productivity loss. And I guess, are we 7 fulfilling the national interest if we're not 8 thinking about those two things? MS. MULLIGAN: I think I would say our 10 productivity loss is not just our productivity loss. 11 You know, --12 VICE CHAIRMAN FUCHS: When I say your 13 productivity loss, I mean, you know, being a network 14 industry, your productivity loss affects other 15 customers. And so I try to stipulate it each time and 16 I'll stipulate it again. 17 MS. MULLIGAN: I mean I think that this is 18 probably not going to be a popular answer, but I 19 think that there's also elements of the service that 20 we are providing. 21 VICE CHAIRMAN FUCHS: Yeah. 22 MS. MULLIGAN: So you know, there is the

- 1 ability for customers to come and negotiate for
- 2 something that looks more like scheduled service.
- 3 And we have -- not a lot, but that does happen. When
- 4 we're not in that kind of an environment, then we are
- 5 ultimately a common carrier. And I think there is an
- 6 element of -- not that we get to do whatever we want
- as a common carrier, but the responsibilities that we
- 8 have are not just to the individual shipper, it's to
- 9 manage the network -- like I said, not just for us,
- 10 but because we have other people who are relying on
- ¹¹ it.
- And so, there is this element of okay,
- there's a cost to a shipper, to a receiver --
- 14 VICE CHAIRMAN FUCHS: -- Right --
- MS. MULLIGAN: -- for that piece of
- equipment sitting either in their yard or our yard.
- 17 From our perspective, we also think a whole lot about
- 18 the fact that that's sitting in a yard and that's
- 19 productive capacity that we can't use. And the
- longer it sits there, the more that that impacts the
- 7 other facilities in the area. And so the
- incentives are important, not just because there's

- 1 costs being exchanged back and forth, but because
- there's really -- I mean I think it goes to your
- 3 question --
- 4 VICE CHAIRMAN FUCHS: There's going to be
- 5 a cost, well, to somebody, right? You're going to
- 6 have a cost to the shipper/receiver, it's going to be
- 7 a cost I say to you all, but, and potentially other
- 8 customers to the extent that the effects on you then
- 9 affect other customers.
- There's going to be a cost to somebody,
- 11 right? I mean that's the way it's going to be.
- MS. MULLIGAN: I mean you can talk about
- it in terms of cost.
- 14 VICE CHAIRMAN FUCHS: Right.
- 15 MS. MULLIGAN: That's fair. I think that
- what would be like, I don't have a sort of, I'm never
- going to have a math equation, because -- there's a
- reason why I'm a lawyer instead of an economist.
- But I do think that if you're losing sight
- 20 of the cost to the network, which is not -- there's a
- 21 bottom-line cost, that's for sure.
- 22 VICE CHAIRMAN FUCHS: Right.

Page 947 MS. MULLIGAN: There's the cost to the 2 loss of the productive value. That's been very 3 important in historic case law. VICE CHAIRMAN FUCHS: I totally 5 understand. 6 MS. MULLIGAN: And I think it's still 7 pretty important. VICE CHAIRMAN FUCHS: I totally 9 understand. And it's hard to (inaudible) -- We want 10 to ask if anyone else has anything to add to those 11 tenets, but you know, you know what I'm getting at. 12 MS. MULLIGAN: I know. 13 VICE CHAIRMAN FUCHS: Should we be balancing the cost to the network versus the cost to 15 the shipper/receiver in terms of reasonableness. 16 MS. MULLIGAN: Yeah. 17 VICE CHAIRMAN FUCHS: Because the shipper/ 18 receiver is only going to be balancing the cost to 19 them versus the cost of demurrage. 20 MS. MULLIGAN: Yeah. 21 VICE CHAIRMAN FUCHS: And so, therefore, 22 do you know what I mean? I'm trying to, is it the

- $^{
 m l}$ Board's role, you know, as a government agency to
- take that broader perspective and is that the
- 3 appropriate lens we should be looking at the
- 4 reasonableness. And that's what a lot of my
- 5 questions are kind of getting around and that's all
- 6 I'm thinking about.
- 7 MS. MULLIGAN: Yeah.
- 8 VICE CHAIRMAN FUCHS: You know, and I'm
- ⁹ just trying to think about it.
- MS. MULLIGAN: Yeah, no and I appreciate
- 11 you sharing those thoughts.
- 12 VICE CHAIRMAN FUCHS: Alright, on the
- tenets, anyone want to add anything?
- MR. COURTOREILLE: No, I think your
- 15 tenets, in fact, are well-grounded and I think we
- 16 have --
- 17 VICE CHAIRMAN FUCHS: They're Jill's
- 18 tenets.
- MS. MULLIGAN: (laughing, inaudible) No, I
- didn't, I assure you. Those are our tenets, they're
- 21 BNSF tenets.
- MR. COURTOREILLE: The one thing I would

- 1 add. I know we focused a lot on the case where a
- 2 customer feels they have no options and their only
- option is a massive investment to compensate for, you
- 4 know, a railroad's demurrage charges.
- I would honestly say that in many cases
- 6 that, you know, just by sheer number, right, we've
- 7 heard from a lot of customers, but we have thousands
- 8 of customers who are not identifying this particular
- 9 problem.
- 10 And the reason they're not is because
- 11 railroads constructively, and I can speak from CN's
- 12 perspective, we work constructively with customers to
- make sure, you know, we've done things in the past,
- 14 as an example, where we've subsidized the purchase of
- 15 track mobiles, we've set them in contact with third-
- party services to help off-set some of those, you
- 17 know, those services they'd like to consume but they
- don't want to make the investments essentially.
- 19 And so, I guess where I'm going with this
- is there are a number of options, and I think we've
- heard from a particular viewpoint which is very
- 22 extreme, but does not represent a lot of the cases

Page 950 that we encounter on a day to day basis. 2 VICE CHAIRMAN FUCHS: Kathy, do you have 3 anything that you want to add to the tenets or 4 anything? 5 MS. GAINEY: I think the thing I would say 6 is that the broader interests of the network are very 7 important to be considered. Because it is a network 8 industry, what happens in one particular yard impacts not just those customers that are served locally, 10 directly from that yard, but it also impacts the 11 interchange traffic that's going through that yard 12 and interline service, it impacts other trains that 13 are just going straight by the yard. And so the 14 ripple effects when one customer has chosen either 15 because it's ordered too many cars and they're coming 16 into their facility, or for whatever reason, and they 17 aren't able to get those cars loaded or unloaded, and 18 then they're dwelling in the yard and consuming that 19 capacity, it really has a detrimental impact on the 20 network as a whole. 21 And so, that's the thing that we're really 22 trying to work very hard with our customers and to

- 1 encourage them to release and to load and unload cars
- 2 and release them as quickly as possible.
- VICE CHAIRMAN FUCHS: Okay.
- 4 CHAIRMAN BEGEMAN: Good news, you're
- 5 excused. Thank you very much, we greatly appreciate
- 6 it and thank you for sitting through the tornado
- 7 break. And our last, but not least panel, Panel XII,
- 8 Western Coal Traffic League, PBF Energy and the
- 9 Freight Rail Customer Alliance.
- 10 Panel XII
- 11 CHAIRMAN BEGEMAN: Bette, can we start
- with you?
- MS. WHALEN: Good afternoon Chairman
- 14 Begeman, Vice Chair Fuchs, and Board Member Oberman.
- 15 My name is Bette Whalen, and I'm the Field Specialist
- 16 Principal for the Lower Colorado River Authority and
- 17 currently serve as President of the Western Coal
- 18 Traffic League, or WCTL.
- 19 I'm also a member of the Board's Rail
- 20 Energy Transportation Advisory Committee. On behalf
- of WCTL, thank you for allowing myself and other
- 22 freight and rail stakeholders the opportunity to

- 1 share our concerns regarding demurrage and
- ² accessorial charges.
- Although I am testifying today on behalf
- 4 of WCTL, I also wish to express my strong support for
- 5 the statement submitted by two of my fellow panel
- 6 members, the National Coal Transportation
- 7 Association and the Freight Rail Customer Alliance.
- 8 WCTL is a national voluntary trade
- 9 association made of consumers of coal mined west of
- 10 the Mississippi River and transported by rail. Our
- 11 membership includes publicly traded companies, local
- 12 governments, cooperatives and utilities, all of
- which depend on the Union Pacific Railroad and the
- 14 BNSF Railway Company to ship and receive hundreds of
- 15 millions of tons of coal to and from their facilities
- leach year.
- 17 As a result, we are unfortunately very
- 18 familiar with the disparity between what is expected
- 19 from rail shippers versus what is expected from rail
- 20 carriers. Demurrage and accessorial charges are just
- another example of the striking imbalance where
- 22 shippers are required to meet certain performance

- 1 standards set by the railroads, or be held
- financially responsible, while railroads have no
- 3 reciprocal requirements or accountability to
- 4 shippers.
- 5 As our written statement details, our
- 6 members' frustration with demurrage and accessorial
- 7 fees stem primarily from 4 issues. One,
- 8 implementation of precision scheduled railroading;
- 9 Two, the railroad's failure to recognize and account
- 10 for differences among commodities; Three, the
- 11 railroad's inconsistent and often incorrect
- 12 assessment and enforcement of fees and the
- 13 significant administrative burden this places on
- shippers; and, Four, the lack of reciprocity in
- 15 accountability.
- Most of the issues with accessorial and
- demurrage charges that were reported to us came from
- WCTL members shipping on UP. These members reported
- 19 that UP's implementation of PSR has driven and
- 20 exacerbated demurrage and accessorial fees.
- Members shipping on BNSF, such as LCRA,
- 22 have reported fewer issues as BNSF has not yet made

- any material changes to its tariffs over the last few
- years and is the only Class I railroad that has not
- 3 yet adopted PSR.
- 4 The disruption and unpredictability in
- 5 service that has accompanied UP's adoption of PSR has
- 6 made it difficult for shippers to anticipate train
- 7 arrival and pick-up times. This, in turn, has made
- 8 it difficult for shippers to manage their operations.
- 9 For example, under UP's tariffs, shippers
- 10 are penalized financially if they are unable to
- 11 receive a train at the scheduled time, or if they
- 12 fail to unload a railcar within the allotted 24-hour
- 13 free time. UP, however, is not subject to any
- similar constraints or consequences.
- 15 Several of our members report that UP
- 16 failed to pick-up its train sets at the scheduled
- 17 times over the last few months, with one member
- 18 reporting UP left a train sit at its facility for 9
- 19 days. UP recognizes in its written testimony that
- 20 "All customers benefit with improved service
- 21 reliability and reduced cycle times when all assets
- 22 are utilized to their fullest."

Page 955 However, it appears UP takes advantage of 2 some customers, like coal shippers, whose facilities 3 are able to store railcars and as a result, service 4 for these shippers suffer. The demurrage and 5 accessorial fees are significant. In fact, from 6 January 15th to April 25th, 2019, a period of just 7 100-days, UP invoiced one WCTL member for \$183,000 8 in new demurrage fees. Another member reported UP has charged it 10 \$124,500 in new fees so far in 2019, of which only 11 \$9,000 was successfully contested. Like its decision 12 to adopt PSR, UP claims it's decided to standardize 13 and consolidate unit train service terms across all bulk commodities "to drive reliability and efficiency 15 for both UP and unit train customers." 16 However, just like PSR, UP's 17 standardization of unit train service terms creates 18 inefficiencies for our members and higher costs for 19 our customers. As the Board has heard, shippers of 20 different commodities have different needs and a one 21 size fits all approach is not the solution. 22 WCTL members have expended significant

- resources to adhere to the railroads' requirements
- when constructing our facilities to handle unit train
- 3 service. Our members did so based on a good faith
- 4 understanding of how the railroads would handle unit
- 5 trains and how they would assess and enforce the
- 6 fees.
- By streamlining unit train service terms,
- 8 UP has removed the foundation our members have relied
- 9 on for years and further eroded our already limited
- 10 protections. For example, UP's previous tariff,
- 11 6603C, outlined events that would extend to shippers
- unloading free time without penalty.
- UP's new streamlined tariff, 6004C, simply
- states charges, and I quote, "will not accrue during
- 15 circumstances beyond the customer's reasonable
- 16 control as determined by UP." The tariff eliminates
- 17 all specificity and affords UP significant discretion
- to assess and enforce charges.
- 19 Like it has with PSR, UP is using its
- tariffs to lower its own operating costs and generate
- 21 additional revenue at the expense of shippers. To
- our detriment, the railroads exercise their

- discretion to assess fees inconsistently,
- ² unpredictably and often times incorrectly.
- For example, last month BNSF incorrectly
- 4 charged a WCTL member \$75,000 in demurrage fees for
- 5 the entire time a train traveled from Colorado to the
- 6 member's facility and back, approximately 300 hours.
- 7 BNSF cancelled the charge, but only after the member
- 8 spent time processing and disputing the invoice.
- 9 Another member stated that just about any train that
- 10 shows detention has to be disputed, because BNSF's
- 11 arrival time at the facility does not reflect the
- 12 time BNSF actually delivers the train for unloading.
- WCTL members have also reported having
- ¹⁴ limited success recovering incorrect fees with one
- member reporting only a 10 to 12% success rate. This
- 16 member explained that although the client keeps
- 17 records of when a train leaves the facility, BNSF
- relies solely on its crew's records, and never
- meaningfully considers the shipper's records.
- 20 It is similarly difficult for WCTL members
- to process UP invoices. One member reported it has
- been charged \$124,500 in demurrage fees so far in

- 1 2019 but did successfully contest one \$9,000 charge.
- The member successfully disputed that charge after
- 3 it found UP had incorrectly penalized it for a train
- 4 that was only delayed because UP's own rail crews
- 5 arrived 12 hours late.
- 6 UP charged the member \$3,000 per engine
- 7 for failing to timely unload the train. Although
- 8 UP's invoicing has improved somewhat, one WCTL member
- 9 reports more than 75% of UP's invoices still have to
- 10 be disputed. The most significant problem our
- 11 members and other freight rail shippers face with
- 12 regard to demurrage and accessorial fees is the
- complete lack of reciprocity and the inherent
- 14 unfairness of the charges.
- These fees, and the railroad's assessment
- and enforcement, have added to the imbalance between
- 17 freight rail shippers and railroads. The imbalance
- is clear in Kenny Rocker's written testimony for UP
- which states, "In the third quarter of 2018, only
- 20 55% of UP's bulk train customers loaded or unloaded
- their railcars within 24 hours. I am pleased to
- 22 report that statistic is now at 62% for the first

- quarter of 2019."
- 2 Although yesterday in his testimony he
- 3 said it was 65%. But as Mr. Rocker points out,
- 4 despite the threat of significant charges, over a
- 5 third of UP's shippers still remain unable to meet
- 6 the 24-hour deadline. It is clear that UP's
- 7 deadline is unreasonable.
- 8 These charges are purely punitive and are
- being enforced as an added source of revenue. It is
- 10 hard to celebrate 7% more shippers loading and
- unloading their trains within 24-hours when during
- this time shippers were subjected to more than 50%
- increase in demurrage fees.
- UP's willingness to provide a shipper with
- 15 credits to offset the demurrage fees does not go far
- enough, as it is the shipper who is ultimately held
- 17 responsible for any imbalance. Although our members
- do not pay demurrage fees on a sitting train,
- 19 requiring them to abide by the 24-hour unloading
- deadline when UP is not going to pick-up the train
- the following day, unnecessarily wastes shippers'
- 22 resources.

Page 960 A more balanced solution would be to 2 calculate how often the railroad is late picking up 3 the train over a 12-month period and give the 4 shipper credits or reimbursement based on that amount 5 as a percentage so the shipper can be compensated for 6 its actual increased cost, not just given credits to 7 offset future demurrage fees over a one month period. This would incentivize railroads to 9 evaluate the 24-hour unloading deadline in light of 10 its actual capabilities and avoid unnecessarily 11 driving up shipper costs or creating inefficiencies. 12 In summary, we request that railroads work 13 with shippers to ensure that the accessorial and 14 demurrage charges do not impose unnecessary penalties 15 and burdens, especially when many of these charges 16 are a direct result of PSR or railroad error. 17 More importantly, any next steps should 18 focus on increasing reciprocity and rewarding 19 shippers for meeting the railroad's requirements for 20 their tariffs, rather than just penalizing shippers 21 when they fail to do so. WCTL also urges the Board 22 to consider any other actions it believes will aid

Page 961 1 those negatively impacted by the demurrage and 2 accessorial charges implemented by the Class I 3 railroad. On behalf of WCTL, thank you again for 5 allowing me to testify today and I'm happy to answer your questions. 6 7 CHAIRMAN BEGEMAN: Thank you. John? Thank you. Chairman Begeman, MR. WARD: 9 Members of the Board, my name is John Ward and I 10 serve as the Executive Director of the National Coal 11 Transportation Association. Thank you for your 12 commitment to address this issue and for your stamina 13 in seeking to understand what's going on in the rail 14 markets today. 15 Our organization consists of electric 16 utilities, coal producers and entities that produce, 17 repair and manage all facets of railcar component 18 parts and systems. Our members have invested 19 heavily in the ownership, leasing and control of 20 fleets of railcars which they provide to the 21 railroads in unit trains of up to 150 cars. 22 These fleets represent about 45% of coal

- cars in service in the Eastern U.S. and about 90% of
- the coal cars in service in the Western U.S. Today
- 3 coal represents as a commodity about 36% of carloads
- 4 originated by Class I carriers.
- 5 At the risk of sounding like a history
- 6 professor, I'd like to provide a little context
- 7 concerning our members' relationship with the
- 8 railroads. Railcar technology and design evolved
- 9 rapidly during the early implementation of the
- 10 Staggers Act.
- 11 At that time the rail carriers asked coal
- shippers to provide capital to purchase unit trains
- of railcars to serve them as the carriers did not
- 14 have satisfactory access to credit. Coal shippers
- 15 and receivers responded with many billions, with a
- 16 "B", billions of dollars of capital to maintain rail
- 17 as a viable option for coal shipments.
- Coal shippers -- these investments
- 19 extended far beyond the purchase of modern train sets
- to include fast loading and unloading systems,
- 21 multiple loop tracks, and batch way load-out systems.
- 22 Furthermore, mines and utilities organized

- $^{
 m l}$ to meet railroad schedules on a 24/7 basis and to
- 2 maintain large and expensive stockpiles of product at
- both origin and destination. This stockpile factor
- 4 allows railroads to miss delivery schedules by days
- 5 and sometimes even weeks and represents the largest
- 6 surge or smoothing capacity in the rail system
- 7 between origin and destination.
- 8 This stockpiling of product exists at no
- 9 cost to the rail carriers. And that's the history of
- 10 Stagger's implementation. Today the table has
- 11 turned. It is the railroads who are experiencing
- 12 record profitability and the coal industry that is
- 13 suffering from withering competition from other
- energy sources and adversarial public policy.
- Despite this change in circumstances, I'm
- here to testify that our members are experiencing the
- same demurrage and accessorial fees issues related to
- 18 precision scheduled railroading that you have heard
- 19 recounted over and over again, these past two days.
- Our written testimony contains specific
- 21 examples. I will summarize by stating the coal
- 22 transportation market is suffering from substantial

- increases in fees, unilateral changes to railroad
- policies, and systems that put the substantial burden
- 3 of disproving erroneous fees solely on the backs of
- 4 the shippers.
- 5 Our members still desire to have
- 6 financially healthy rail carriers that can provide
- 7 reasonable service or reasonable rates. We fully
- 8 support the goals of improving efficiency and
- 9 reducing network congestion. We continue to have
- 10 productive relationships with railroads on an
- operational level.
- Our members' commitment to maintenance
- operations and repair of the tens of thousands of
- 14 coal cars in their fleets is so significant that we
- 15 hold an annual conference on best practices for
- 16 fleet management which the rail carriers helpfully
- 17 participate in.
- But as you've heard during two long days
- of hearings in a very large room, a room where the
- initial shortage and now oversupply of chairs
- 21 probably provides some analogy for the concept of
- 22 demurrage. There is a need for --

Page 965 COMMISSIONER OBERMAN: People waiting to 2 get in? 3 MR. WARD: -- yeah, another tornado is 4 happening as we speak. There is a need for the 5 Surface Transportation Board to take actions to 6 ensure that implementation of precision scheduled 7 railroading under any name is carried out fairly and 8 equitably. Taking my history professor hat off and 10 becoming an English major for just a moment, I notice 11 that Member Oberman's interest in definitions --12 reciprocity is defined as "A mutual exchange of 13 privileges, " specifically a recognition by one of two institutions of the validity of licenses or 15 privileges granted by the other. 16 The coal industry was there for the 17 railroads when they needed capital for railcars, 18 infrastructure and business models that offer 19 schedule flexibility, fair treatment during PSR 20 implementation is not too much to ask for in return, 21 thank you. 22 CHAIRMAN BEGEMAN: Thank you. Kent?

- MR. AVERY: Thank you, good afternoon
- 2 Chairman Begeman, Vice Chairman Fuchs and Member
- Oberman, as well as the Surface Transportation Board
- 4 staff, and thanks for providing PBF this opportunity
- 5 to testify before you today on demurrage and
- 6 accessorial charges related to rail shipments.
- My name's Ken Avery, and I'm the Vice
- 8 President responsible for managing rail activities
- 9 for both PBF Energy and our Master Limited
- 10 Partnership PBF Logistics.
- A little background on PBF. PBF is one of
- 12 the largest independent refiners in North America.
- We have a fleet of roughly 7,000 railcars. We haul
- chemicals such as Xylene, Tetramer, Benzene. We also
- 15 haul a lot of crude oil, propane and butane.
- Of our 7 served operations -- 7-rail
- served operations, 57% of them are captive to one
- 18 railroad. I want to tell you a little bit about
- 19 myself. I've been in the rail industry for 30 years.
- 20 The first 16 of that I worked with the Union Pacific
- 21 Railroad solely in the operating department.
- The first 12 years of that 16-year span

Page 967 was working in a terminal and serving a lot of 2 customers like who you've heard from today. The last 3 4 years of that 16-year span was spent in the 4 dispatch center where I really learned just how 5 complex the railroad is and how many resources are 6 fighting for track time on the railroad. 7 And we're going to talk a little bit about 8 that when I get further into my testimony. Unlike a lot of the testimony the Commissioners have heard, 10 PBF has been successful at resolving a lot of our 11 demurrage invoices, but it takes a tremendous amount 12 of energy, persistence, you have to get nasty, you 13 have to climb up the organizational ladder, it's just 14 a process that's way too burdensome and frankly, I 15 believe it is a deterrent, that they try to wear you 16 out. 17 When we were sheltering in place out here, 18 I had a moment to talk with the BNSF. My perception 19 of their tools and their customer service center 20 couldn't be further from what they mentioned to you

21

22

The good news is we're going to have --

today. I feel it's absolutely terrible.

- 1 I'm going to follow-up with the BNSF representative,
- and we're going to talk more about it, but I just
- want to tell you we have polar opposite views on
- 4 that.
- 5 I'm going to be brief. You guys have been
- 6 champions the last two days at listening to
- 7 everybody, so I'm going to make two quick points.
- 8 First of all, my first point is trip plan compliance,
- 9 or on-time service, is the key to lower cars online
- 10 and therefore lower demurrage and accessorial
- 11 charges. Unfortunately, this is a metric that is
- 12 just not talked about on the railroad.
- 13 The railroads can talk to you about
- velocity, they can talk to you about OR or dwell in
- 15 their yard, but what they don't talk about is on-time
- 16 performance. And the reason why is there's not a
- good news story. It's typically in the low 70's,
- that's what it is, and it stays there.
- Now, it's really the only segment in the
- transportation industry that doesn't talk about how
- 21 reliable they are, which I find very telling. So,
- 22 you know, you might be asking why is it that they

- 1 can't get trains over the road? Well, train trip
- 2 plan compliance is really due to 3 primary factors in
- 3 my experience.
- The first is episodic events. When you're
- 5 in the dispatch center, the one thing you learn is
- 6 just how many episodic events happen along the
- 7 railroad on any given day -- this can be a crossing
- 8 accident, it can be a locomotive with a locked up
- ⁹ traction motor, it can be any number of locomotive
- 10 reliability issues where a locomotive breaks down.
- It can be a derailment, a rock slide, it
- can be a washout, it can be cattle on the track, but
- there are a number of episodic events where the
- 14 railroad just simply stops.
- The second thing that affects trip plan
- 16 compliance or on time performance is planned
- maintenance. Railroads have done a good job at
- maintaining their track, but it doesn't come without
- 19 a cost to the customer. They have tie gangs, steel
- 20 gangs, what's called a DC car and EC car and in-track
- welder, a track inspector, it goes on and on and on.
- There are a lot of activities that need to be

- 1 coordinated on the main track other than just train
- 2 movement.
- 3 The third thing that affects on-time
- 4 performance is crews. And the crews are an issue any
- 5 day of the week, but they're specifically an issue
- 6 during the holidays.
- So, we have 12 holidays, but it's not just
- 8 the holidays that they become an issue, it's Mother's
- 9 Day, it's Father's Day, it's Easter, it's the Super
- 10 Bowl, it's the World Series, and it's also hunting
- 11 season. When I was in the dispatch center, we had a
- 12 heck of a time keeping crews in certain parts of the
- 13 country because they wanted to go shoot an elk, or a
- moose or a deer or something, and while that's fine,
- my train didn't move.
- And so, those are the things that I want
- 17 to help the STB understand are really the things that
- are preventing the railroad from getting trains over
- 19 the road. Now, I know you've heard a lot about first
- 20 mile/last mile here. I have a little bit different
- of opinion. I think 50% of the problem is first
- 22 mile/last mile, but 50% of the problem is just

- 1 getting the train over the road.
- The thing is the customer really doesn't
- 3 see that very much. So, you know, I would say that
- the railroads have made some economic decisions with
- 5 respect to not addressing these 3 things that -- or I
- 6 should say 2 of the 3 things -- that cause poor
- 7 on-time performance.
- As far as episodic events, they've
- 9 relatively done a good job of maintaining their
- 10 track. Their derailment statistics are going down.
- 11 But as far as planned maintenance and crews, I think
- 12 they've done a deplorable job. I think they've just
- done a horrible job.
- I think the main track needs more
- 15 redundancy. I think when they do spend capital, the
- 16 capital is to bring more carloads on, it's not to get
- 17 their current carloads more reliable. Capital spend
- needs to be on reliability before it is on growth.
- 19 So, to summarize point one, railroads have focused
- heavily on efficiency and done a good job.
- 21 Again, every one of them can tell you
- 22 about their OR. The real focus needs to be what

- 1 every other transportation segment focuses on and
- that's how reliable and consistent they are. That's
- 3 not in their vocabulary.
- 4 My second point is simply that when it
- 5 comes contract time, captive shippers virtually have
- 6 no ability to negotiate on demurrage, accessorials,
- 7 freight rates, escalations, locomotive fees, et
- 8 cetera.
- Today, my fear is, you know, I should say
- 10 PBF pays about a half a million dollars a month
- between demurrage, locomotive fees and I've lumped a
- bunch of stuff in that category, but we pay about a
- 13 half million dollars a month.
- I'd love to be able to negotiate, but it's
- 15 hard to negotiate when they are the only player in
- 16 town. So, I have a couple recommendations for the
- 17 STB. I have some recommendations and some
- 18 solutions. My first recommendation is please don't
- 19 talk to the top of the railroads as to what the
- 20 problem is.
- If you want to know what the problem is,
- 22 ask a dispatcher from each one of the railroads to

- 1 come in here and explain to you why the trains can't
- get over the road. I think you'll be educated. I
- would start at the bottom, rather than starting at
- 4 the top.
- 5 As far as my solutions. I believe
- 6 demurrage should only be assessed on on-time cars.
- With this, this gives the railroad the incentive to
- 8 improve on-time performance which, if achieved, would
- ⁹ give customers the confidence to lower their car
- 10 fleets. We really need a cost-effective way to
- 11 arbitrate basic fees and really, we need a very fair
- way to just negotiate contracts for a captive
- shipper.
- I think we should consider benchmarking
- 15 services to develop a railroad customer bill of
- 16 rights program like the DOT did in 2009 for the
- 17 airline industry when the federal government
- instituted a passenger bill of rights as a direct
- 19 result of the airline industry's poor, inconsistent
- and unreliable service.
- Lastly, as I hope I've demonstrated in
- 22 this presentation, we have got to change the

- discussion from efficiency to performance and
- ² consistency. Thank you for the opportunity to
- 3 testify.
- 4 CHAIRMAN BEGAMAN: Thank you, Kent. Emily?
- MS. REGIS: Last one. Members of the
- 6 Board, good afternoon, thank you for holding this
- 7 hearing and for giving us an opportunity to speak
- 8 with you. My name is Emily Regis, I'm wearing two
- 9 hats today. First, I'm here as the Fuel Resource
- 10 Administrator for Arizona Electric Power
- 11 Cooperative, or AEPCO, a rail electric generation and
- transmission cooperative. That's my day job.
- Second, I'm here as a Vice President of
- 14 the Freight Rail Customer Alliance, or FRCA, a
- 15 national association of shippers and shipper
- 16 associations. AEPCO is also a member of the Western
- 17 Coal Traffic League and the National Coal
- 18 Transportation Association where I am the current
- 19 President.
- 20 AEPCO and FRCA join in the League and the
- 21 NCTA statements as well. AEPCO and FRCA have
- 22 several areas of concern and several proposals

- 1 regarding demurrage and accessorial charges,
- 2 particularly as they relate to precision scheduled
- ³ railroading, or PSR.
- 4 Let me briefly summarize our written
- 5 statement. First, we are being forced to pay a la
- 6 carte for services that used to be included in the
- ⁷ line haul rate. As a result, we are being forced to
- 8 pay more to receive the same bundle of services.
- 9 Second, the higher charges associated with
- 10 PSR, for example, out west we've seen higher charges
- with UP, but not with BNSF, at least not yet.
- 12 Third, it would be one thing if PSR was
- producing better service for us, but it has been the
- opposite. UP service has been less predictable and
- 15 more disruptive. Volumes are not getting moved
- because of PSR and the reduction in surge or recovery
- 17 capacity with PSR means these volumes are unlikely to
- be made up in the future.
- 19 Fourth, PSR is causing us to have to pay
- 20 more but receive less. Fifth, there is an absence of
- fundamental fairness and basic reciprocity. If we
- 22 hold on to a train too long, we get hit with

- demurrage or detention, which we're told is allowed
- 2 to include a penalty component.
- However, the railroads do not face any
- 4 financial consequences if they take too long to move
- 5 a train or service suffers.
- 6 Our written statement details a sequence
- of event with our train set at AEPCO's power plant,
- 8 Apache Station, located in southeastern Arizona.
- 9 Very briefly, we needed a couple of extra hours to
- unload the train which we were willing to pay for.
- We needed to rerun the railcars through our dumper a
- 12 second time because we wanted to make sure the cars
- would be completely empty of coal before we sent the
- 14 cars to the shop for some scheduled maintenance.
- But UP insisted on taking the cars while
- some still held small amounts of coal. This is known
- 17 as carry-back coal which means additional cost to
- 18 the shipper. The cars went to the shop and after
- 19 they received maintenance, UP was notified that the
- 20 cars would be ready to return to service on April
- 21 26th. We had scheduled the cars for a coal loading
- 22 at the end of April and obtained a PRB train slot

- 1 from the UP for that purpose.
- But UP did not pick up our cars until May
- ³ 7th, 11 days after they were scheduled to move -- 11
- 4 days! So, our cars sat, we couldn't use them, the
- 5 shop had to provide space for them and we had to deal
- 6 with the mine for the loading delay, but UP did not
- ⁷ have to pay a penalty or compensate anyone for the
- 8 problems it caused even though UP is quick to impose
- 9 charges when shippers deviate from their schedules.
- We offer several proposals. First,
- carriers should not be allowed to charge a la carte
- 12 for services that were previously provided as part of
- 13 the regular line haul service. At least not without
- 14 showing that the line haul rates have been reduced or
- 15 service improved.
- Second, there should be reciprocity. If
- shippers are at risk for causing delays, then the
- same rules should apply to carriers. Third, penalty
- 19 aspect of demurrage and accessorial charges should
- 20 be limited. Even if a penalty component is allowed
- or needed, the sky should not be the limit. 25%
- 22 seems like more than adequate amount.

Page 978 Fourth, the Board should consider adopting 2 the approach that FERC uses. At FERC, transmission 3 providers and pipelines are allowed or even required 4 to impose penalties to enforce compliance with 5 reservation rules and the like, but the providers do 6 not retain these proceeds. 7 Instead, the providers are required to 8 distribute the proceeds to those customers that 9 followed the rules. The charges do not function as a 10 profit center, which is the same principle that the 11 Board adopted, or tried to adopt, with the Safe 12 Harbor for railroad fuel charges. 13 Thank you again for holding this hearing 14 and allowing us to appear before you. In addition, 15 we want to thank and commend the Board for the 16 release of the report of the rate reform task force. 17 Reasonable rates as well as reasonable charges and 18 practices are all vital to shippers, especially those 19 that lack effective competition. 20 We look forward to learning more about the 21 recommendations, and to the opportunity to submit 22 comments on them. We would be pleased to respond to

- 1 any questions you might have at this time. Thank
- 2 you.
- COMMISSIONER OBERMAN: I just have a
- 4 couple. You know there was a question I meant to ask
- 5 the other shipper panels earlier today and I forgot.
- 6 So, I'll ask this panel and I'll just ask all of you
- and then you can respond. Ann had asked yesterday if
- 8 any of the witnesses had concerns about retaliation
- ⁹ if they showed up here.
- Today, or maybe complaints, do any of you
- 11 have any such perceptions or actual context from any
- of the railroads, Bette?
- MS. WHALEN: I would say no, I don't think
- we have any concerns on that.
- 15 COMMISSIONER OBERMAN: John?
- MR. WARD: I'm the Association guy, the
- 17 railroads don't talk to me.
- 18 COMMISSIONER OBERMAN: Did any of your
- members have any such perception?
- MR. WARD: I'm relatively new on the job,
- I've not had any members report to me any kind of
- 22 retaliation. I have had some members indicate that

- it's a fear that they might have.
- 2 CHAIRMAN BEGEMAN: I can answer for Kent,
- 3 he's not afraid.
- 4 COMMISSIONER OBERMAN: I didn't think he
- 5 would be, but I'll let him answer.
- 6 MR. AVERY: I'm not afraid, but I do
- believe there will be comments, retaliation, this is
- 8 something that will be discussed for a long time,
- ⁹ this coming before the Board and saying these things.
- 10 COMMISSIONER OBERMAN: Discussed between
- 11 you and the railroads?
- MR. AVERY: Yeah, I think so.
- 13 COMMISSIONER OBERMAN: Will you let us know
- if that happens?
- MR. AVERY: I absolutely will. I can tell
- 16 you this, is I was contacted by 4 of the railroads
- before I ever came here.
- 18 COMMISSIONER OBERMAN: In connection with
- 19 this hearing?
- MR. AVERY: Yep.
- 21 COMMISSIONER OBERMAN: To suggest --
- you're not --

Page 981 MR. AVERY: Just to ask me what I was 2 going to say and, you know, what my issues are. 3 COMMISSIONER OBERMAN: And have they solved your problems as a result of that? 5 MR. AVERY: No. 6 COMMISSIONER OBERMAN: Emily? 7 MS. REGIS: Well, I would just say this 8 for days now I've been joking that I'm the sacrificial lamb, that I've come here to represent my 10 company and FRCA, a group of shippers that many of 11 which did not want their names mentioned in their 12 statements, as well as NCTA members which I'm 13 President of, those members also were happy to hear that we were going to come here and talk to you but 15 they were afraid of the peril that might come their 16 way if railroads found out that they were complaining 17 about these things. 18 COMMISSIONER OBERMAN: Were any of these 19 people ones who would have said but for that they 20 would have come themselves to testify? 21 MS. REGIS: I can't say for sure. 22 just a general fear of retaliation though.

Page 982 1 COMMISSIONER OBERMAN: Kent, two quick 2 questions for you. You mentioned crews, how they're 3 problems and so forth, do you have any understanding 4 or perception that PSR itself has resulted in a 5 reduction of the work force or crews exacerbating 6 what apparently is the usual problem? 7 MR. AVERY: I really can't. I really 8 can't say for or against PSR. I can tell you crews 9 have been an issue since Moby Dick was a minnow, so 10 they continue to be an issue. 11 COMMISSIONER OBERMAN: Alright, and the 12 other question. When you said the main track needs 13 more redundancy, what were you talking about? 14 MR. AVERY: Well, if there was more 15 redundancy, if there was more double track, more 16 sitings, you know, two things could happen. First of 17 all, if there's an episodic event it's possible you 18 can get around it. Second of all, when they need to 19 maintain the track, they can maintain one and run on 20 the other. 21 That's what I mean by it, you know, my 22 personal opinion is every one of these railroads

- comes into our office once a year and, you know,
- 2 puffs their chest out and says look how much money
- 3 I'm spending on capital, and then when you break it
- 4 down, it's a lot on maintenance, and they've done a
- 5 good job at reducing derailments by maintaining their
- 6 track, but I don't see a lot of capital projects to
- improve on-time performance.
- I see a lot of capital projects to bring
- 9 more carloads on the railroad.
- 10 COMMISSIONER OBERMAN: So, what's the
- difference? Such as, what's a capital project that
- brings more cars on?
- MR. AVERY: An intermodal terminal, it
- could be a project that they're going to do to bring
- 15 a new customer on, but you know, I would say track
- 16 expansion is what really needs to be done so you
- 17 have some redundancy to get to an on-time network.
- I mean I would hope that the railroad
- would be able to operate at 85-90% on-time at some
- 20 point in time, but it's pretty much a flat line and
- it always has been, right at 70, it might be --
- 22 somebody might be mid-70's -- but that's where they

Page 984 mostly hang out, is in the 70's, low 70's. 2 COMMISSIONER OBERMAN: Thank you. 3 Kent, you mentioned CHAIRMAN BEGEMAN: 4 that your company pays about half a million dollars a 5 month in demurrage and accessorial, is that what you 6 said? 7 MR. AVERY: Close. CHAIRMAN BEGEMAN: And is it that you are 9 choosing to pay rather than to, I guess, invest in 10 infrastructure to avoid storage or is it that you're 11 at fault, could you just kind of give us some 12 perspective as to what those charges are for? 13 MR. AVERY: Sure, I'd say --14 CHAIRMAN BEGEMAN: And are they legitimate? 15 MR. AVERY: Yeah, I mean roughly 20% of it 16 is on locomotive fees and these locomotive fees are 17 for unit trains that come into one of our terminals, 18 we off-load them and if the locomotive sits for a 19 specific amount of time, you pay a locomotive fee. 20 It's kind of like demurrage, it basically 21 is demurrage, but for a locomotive. 22 CHAIRMAN BEGEMAN: But that's different

Page 985 than the UP \$3,200 I mean dead head --2 MR. AVERY: No, I think the \$3,200 is if 3 you release the locomotive back. CHAIRMAN BEGEMAN: So, you're holding on? MR. AVERY: We're holding on. 6 CHAIRMAN BEGEMAN: Is it more than \$3,200? 7 MR. AVERY: It's probably right around 8 \$3,200 that we pay. I would say there's really no 9 difference whether we would release it or not. 10 of our bigger costs is out in California. 11 say that that represents half of the money that we --12 I talked about -- and it's on the BNSF. 13 Look, I've -- we have a refinery down in St. Torrance, which is in LA, and there's just no 15 place to build track in the middle of LA. My concern 16 is that the BN continues to either eliminate a 17 demurrage agreement or reduce the amount of cars that 18 we can have. 19 We have worked tirelessly with the BNSF to 20 try to identify a place where we could build track 21 that they would serve. We've looked at a half a 22 dozen spots. The problem is they don't want to

- 1 serve any of the spots, so they give me no
- opportunity to actually build track, so what do I do?
- I store the cars in Arizona, on a short line.
- So, I move these cars. I pay a lot in
- 5 demurrage because my only alternative is to pay
- 6 freight out to Arizona to come back to LA when I need
- 7 them. So, demurrage is going to be cheaper than
- 8 paying that freight.
- 9 CHAIRMAN BEGEMAN: Even though the freight
- 10 is empty?
- MR. AVERY: Yeah, yeah. Well, we move
- 12 loads out there too.
- 13 CHAIRMAN BEGEMAN: Okay.
- MR. AVERY: We move loads out there as
- well, okay, yeah.
- 16 CHAIRMAN BEGEMAN: But I meant it wasn't
- that was where all your storage was going to be?
- MR. AVERY: That is where our storage is.
- 19 I'm not sure if I'm following your question.
- 20 CHAIRMAN BEGEMAN: I guess maybe you're
- saying you're actually paying the fees because of the
- 22 Arizona location, that's where your cars are, yes?

| | Page 987 |
|----|---|
| 1 | MR. AVERY: Yes. |
| 2 | CHAIRMAN BEGEMAN: Yes, okay. |
| 3 | COMMISSIONER OBERMAN: Now you've confused |
| 4 | me. I thought you said it was cheaper to pay the |
| 5 | demurrage than to move the cars to Arizona? |
| 6 | MR. AVERY: It is, but there are points in |
| 7 | time where we have to move the cars out. |
| 8 | COMMISSIONER OBERMAN: Because? |
| 9 | MR. AVERY: Because the railroad says we |
| 10 | need to. |
| 11 | COMMISSIONER OBERMAN: Well I'm trying to, |
| 12 | just on this point, if you don't mind, just to figure |
| 13 | out the incentive part of the demurrage fee. |
| 14 | Everything we hear is it's to get the system moving, |
| 15 | but it sounds like there's almost nothing you'd |
| 16 | have to raise the demurrage fee a lot higher before |
| 17 | it became cheaper for you to just send everything to |
| 18 | Arizona without being forced to? |
| 19 | MR. AVERY: That's right. |
| 20 | COMMISSIONER OBERMAN: And you're not |
| 21 | encouraging that, I'm assuming? |
| 22 | MR. AVERY: No. |
| | |

Page 988 VICE CHAIRMAN FUCHS: It gets to the whole 2 idea Ken, the trade-off you're making is between 3 paying the demurrage fee and the lowest possible cost 4 alternative to avoiding a demurrage fee, that's the 5 trade-off you're making? 6 MR. AVERY: That's the trade-off we're 7 making, that's exactly right. Okay, can I get into VICE CHAIRMAN FUCHS: 9 car trip plan compliance because it actually -- I was 10 trying to get back to my very first question of the 11 hearing about 19 hours ago, of -- and, you know, the 12 whole idea of, you know, you hear now with the 13 transition to PSR that car trip plan compliance is a 14 measure that's being pushed out more by some of the 15 railroads. 16 And you know, just to make sure that I'm 17 understanding what you're talking about Ken, is 18 there's kind of two initial things I'm thinking 19 One is from the time of release to the time 20 of placement, and that could be constructive 21 placement, and then if it's in the constructive 22 displacement then it's first mile/last mile.

Page 989 And so are you saying that on that initial 2 segment, which I understand is how they measure car 3 trip plan compliance, various ways, from release to constructive placement, if there's any -- for each 5 delay you have there, you should get some sort of 6 credit, is that basically what you're saying? 7 Like when you say that cars --MR. AVERY: Well I'm saying if a car has a 9 10-day trip time and makes a 10-day trip time, then 10 fine, demurrage is fair. 11 VICE CHAIRMAN FUCHS: From release to 12 constructive placement? 13 MR. AVERY: Yeah. 14 VICE CHAIRMAN FUCHS: 15 MR. AVERY: Yeah, but if --16 VICE CHAIRMAN FUCHS: What if it's an 11-17 day trip time? 18 MR. AVERY: I don't think I should have to 19 pay demurrage. 20 VICE CHAIRMAN FUCHS: Ever? 21 MR. AVERY: Yeah, and if it's a 9-day trip 22 time, I don't think I should have to pay demurrage.

Page 990 VICE CHAIRMAN FUCHS: In that scenario, so 2 there's two different ways. One is, you know, that 3 we've been hearing is that railroads give credit, you 4 know, they'll give a credit because there's an 5 inconvenience here, and then the other is -- but in your scenario you're saying never demurrage -- that 6 7 means it could sit in the railroad yard in perpetuity 8 without ever having to pay anything. Does that create an incentive in the other 10 -- or a lack of incentive that would be problematic 11 for yard capacity? 12 MR. AVERY: I think what I've heard here 13 is we continue to talk about customer behavior. need to incent railroad behavior and when you're 15 talking about railroad behavior, the railroad 16 behavior that I think we need to incent is on-time 17 performance and that's where I get to that point. 18 VICE CHAIRMAN FUCHS: Would a credit be a 19 better way of doing that where, if someone misses 20 their ETA, they give credits, such that, you know, 21 the credit is going to wipe away, you know, that's 22 some harm and it's an incentive for them, and that

Page 991 wipes away a debit, right? 2 And so, that their, you know, their 3 incentive is the foregone debit, you know, but you don't run into a situation where the car can just 5 stay in the yard forever. So, why would the credit 6 system not be better than the "never demurrage if 7 late" system? MR. AVERY: You know, a credit system 9 could work, I'm not saying it couldn't. I'm just 10 telling you my opinion on this is we need to get away 11 from talking about the customer behavior. I think 12 the customers are behaving exactly how the railroad 13 wants them to behave. 14 I think that the conversation needs to 15 change to railroad behavior and what -- and what is 16 going to drive more reliability? What is that 17 behavior that's going to drive more reliability on 18 the railroad? 19 VICE CHAIRMAN FUCHS: I have another 20 question on that, but, Marty --21 COMMISSIONER OBERMAN: Just on this point, 22 incenting railroad behavior, and I don't mean to be

- facetious but it may sound that way, every railroad
- that came through here said, you know, this
- demurrage is such a tiny fraction, it's really
- 4 meaningless to us.
- 5 So, if that's accurate, then if you denied
- 6 them demurrage because they're in 11-days or 9-days,
- it wouldn't incentivize them to do anything because
- 8 they say the money they collect is meaningless, if
- 9 that's true, or am I missing logic?
- MR. AVERY: I don't think the money
- they're collecting is meaningless.
- 12 COMMISSIONER OBERMAN: So, you think it
- would be an incentive, if they couldn't collect that
- 14 billion dollars?
- MR. AVERY: I do.
- VICE CHAIRMAN FUCHS: So, (inaudible) make
- 17 sure that I'm -- because when we went through and you
- 18 saw the previous panel and the tenets that BN laid
- out, one of them was fault, you know, and they
- seemed to be putting forward the idea that if the
- railroad is at fault, there should be some
- 22 consequence when it comes, you know, when it comes to

Page 993 demurrage or at least that there should be some 2 break in demurrage. That's the way I interpreted 3 what they meant by fault. 4 And I guess, you know, the credit system, 5 generally. Is there a way to think about the credit 6 system? Perhaps, Kent, as you laid out, linked to 7 car trip plan compliance on the initial transit time 8 over the road and then maybe something on missed switches and other things that get at first mile/last 10 mile? 11 For the general panel, do people have a 12 general view on the use of credits and how the Board 13 should be thinking about credits as a way of 14 capturing that fault concept? 15 Does that, can you do it with credits? 16 MS. WHALEN: Well I think for a unit coal 17 train, I don't know that the credit/debit system 18 works.

- 19 VICE CHAIRMAN FUCHS: Okay, explain to me.
- MS. WHALEN: Well, because you're moving
- 21 124 or 150 cars as a unit, right?
- 22 VICE CHAIRMAN FUCHS: Right.

Page 994 MS. WHALEN: And so, I think the biggest 2 impact for coal trains is the imposition by UP now of 3 the 24-hour, you know, unloading. VICE CHAIRMAN FUCHS: Right. 5 MS. WHALEN: And if you don't make it then 6 you get assessed demurrage even if they don't come 7 and pick up the train for, you know, a couple of 8 So, you know, I know that PSR is looking at days. moving cars, but with coal, we're still really moving 10 full trainloads. 11 VICE CHAIRMAN FUCHS: So, let's say for 12 example, you know, you have 120 cars, if you held 13 them for an extra day you would get 120 debits, 14 right, of demurrage. If they were late or missed a 15 switch, however, you know, if they gave you 120 16 credits for that day, wouldn't that then kind of 17 offset the debits that you'd get if you held it? 18 I mean, take me through why that wouldn't 19 what is particular about why that wouldn't work? 20 MS. WHALEN: Well I can speak, I can't 21 speak for the UP, but I can speak for the BN that 22 they don't have -- they will give us a proposed cycle

Page 995 time and they will give us an estimate time of 2 arrival. 3 VICE CHAIRMAN FUCHS: Right. MS. WHALEN: But if they don't arrive that 5 time, whenever they arrive is when the start the 6 clock. So, I mean, how do you assess that in reverse because when they get there they get there, you 8 know, and there's no commitment on their part to say 9 the train's going to be there at noon. 10 VICE CHAIRMAN FUCHS: Right, there's no 11 service guarantee. 12 MS. WHALEN: There's no service guarantee. 13 VICE CHAIRMAN FUCHS: Right. 14 MS. WHALEN: So, I think it would be 15 difficult to do that. Maybe there's a mechanism that 16 would work, but I can't come up with a suggestion. 17 VICE CHAIRMAN FUCHS: Emily? 18 MS. REGIS: I would say many years ago, in 19 some ancient contract that we had that, we did have a 20 mechanism for sorting out that sort of thing on 21 average basis cycle time performance. If they didn't

22

meet that, then you were entitled to something, so,

- it's possible to come up with a way of some kind of
- 2 reciprocity in that, it could be worked out, it
- 3 worked before.
- 4 VICE CHAIRMAN FUCHS: And as a general
- 5 notion, we talk a lot about service measures and you
- 6 know, without getting into anything that's pending,
- for sure, but generally, is car trip plan
- 8 compliance, and then something that measures first
- 9 mile/last mile, are those the two most important
- 10 service kinds? It sounds like you think that they
- 11 are, but the other folks on the panel, are those the
- 12 two service measures that are most important for you
- 13 all?
- MS. WHALEN: Cycle time is probably one of
- 15 the biggest service measures for us.
- VICE CHAIRMAN FUCHS: The actual length of
- 17 the trip?
- MS. WHALEN: Yes, the total trip and like
- 19 Emily alluded to, they used to be in contracts.
- There used to be a cycle time guarantee, and if at
- the end of the year it averaged out that they didn't
- meet that, then there were financial ways to take

Page 997 care of that. But railroads have removed that and 2 they won't even give you a cycle time guarantee. 3 It's a planning mechanism. 4 VICE CHAIRMAN FUCHS: But once you 5 establish the cycle time, it's compliance with that -6 - that's a proxy for car trip, am I right to think about that as a proxy for what the car trip, you 8 know, is and therefore, yeah? MS. WHALEN: So you can plan how many cars 10 you need --11 VICE CHAIRMAN FUCHS: -- Right --12 MS. WHALEN: -- to deliver the amount of 13 coal you need a month --14 VICE CHAIRMAN FUCHS: -- Right --15 MS. WHALEN: Based on their assumed cycle 16 time. 17 MS. REGIS: It's enormously important 18 really when you're contracting with coal producers 19 and you have a certain volume that you have to move 20 within a limited time, maybe even a month or a 21 quarter and you're planning and your logistics and

22

planning revolve around the railroad assumed cycle

- 1 time average.
- If you think your train is going to take 8
- 3 to 10 days to deliver a load of Powder River Basin
- 4 coal to your plant, then it should take 8 to 10 days,
- it shouldn't be 12 days, and if it continues to be 12
- 6 days then that really pushes you over the edge as far
- 7 as your producer commitment.
- 8 VICE CHAIRMAN FUCHS: I appreciate that,
- 9 so one last question for me. Just kind of going
- 10 through these tenets and just thinking through them,
- 11 you know, clear and concise information, having the
- information necessary has to adjust, treatment for
- 13 folks in the similar class identically, sufficient
- 14 advance notice, and capturing some element where if a
- 15 railroad is at fault, you don't have to pay
- demurrage in some way.
- Maybe it's a credit we were discussing,
- 18 you know, Ken has -- however, right, so if those were
- 19 tenets, what is it missing? You know, not to put you
- 20 on the spot.
- MR. AVERY: Can you restate it, I don't
- 22 think I'm following your question.

Page 999 VICE CHAIRMAN FUCHS: So, if the Board is 2 thinking about what the reasonableness of a demurrage 3 charge is, and the reasonableness of a demurrage tariff, and the information was clear and concise 5 and there was, I guess, sufficient advance notice, 6 and people were treated the same, and they had the 7 information necessary with which to plan operations, and there was something in there that accounted for railroad fault, in a true way, with credits or some 10 other way --- if there's the credits when it's late, 11 or a missed switch, and it was a good system, where, 12 you actually got credits when the railroad made an 13 error, what would still be missing from that? 14 MR. AVERY: I don't know that anything 15 would be missing from that, but I would say that if 16 the railroad is the one that is the judge and the 17 jury on that system, like what you have today, there 18 could be some flaws with it. 19 VICE CHAIRMAN FUCHS: I see. And then it 20 becomes, then it's a question of the evidence and the 21 dispute resolution and that sort of thing. 22 MR. AVERY: Yeah, I mean that's the issue

- 1 today is, you know, you just have to spend an
- enormous amount of time battling these things, and
- 3 again, I believe it's a deterrent, because they're
- 4 going to wear you out and then you're going to go
- 5 away and frankly, I think that's what a lot of
- 6 customers do.
- 7 MS. REGIS: I think there's a lack of
- 8 data, you're not able to obtain the kind of data that
- 9 they have on the performance of your train or your
- 10 traffic or whatever and you might talk to them, "what
- happened with my train? Why did it go this way? And
- 12 how come it took this long? And where are my cars,"
- et cetera, you know, you can have that conversation,
- 14 you're going to get, you know, unclear answers.
- But you know, usually it's just okay, this
- time they messed up, maybe we mess up another time.
- We work it out, we communicate but now they want you
- 18 to go through this service process on the internet
- 19 and create a service issue and it's not so personal
- anymore, I guess, it's not so effective.
- VICE CHAIRMAN FUCHS: I see.
- 22 CHAIRMAN BEGEMAN: Well, I just want to

- l close by saying thank you so much. Even though you
- were the last panel, you were as informative as the
- first. And I hope that you know that we have been
- 4 listening to you very carefully.
- I also want to thank the folks that have
- 6 managed to stay to fill the extra seats that are
- ⁷ here, most of you. There are quite a few less
- 8 railroad representatives than there were before, but
- 9 there are a couple of you. And what I really want to
- 10 do is also, I want to thank my colleagues and their
- 11 staff and the Board's staff.
- 12 The effort that they undertook to help us
- have this hearing, including finding us a location
- 14 and figuring out how to run the lights, et cetera. I
- 15 am so proud of you and if you would bear with me, I
- would like to read off the list of all of the people
- that have made us look like we know what we're doing.
- So, starting with the Office of
- 19 Proceedings, Kenyatta Clay, Raina Contee, Sarah
- ²⁰ Fancher, Jeff Herzig, Brendetta Jones, Rena
- Laws-Byrum, Ryan Lee, Ryan and Rena are both here,
- 22 Tammy Lowery, Rebecca Morrow -- also here, who has

- worked very hard on all these issues.
- Regena Smith-Bernard, Julie Waddell, who
- 3 Marty mentioned yesterday as well as Sarah, Cynthia
- 4 Brown, Scott Davis, I'm sorry, Scott Zimmerman,
- 5 Allison Davis. From the Office of OPAGAC, we call
- 6 that Lucy's shop, Katherine Bourdon, Fred Forstall,
- Mike Higgins, Gabe Meyer, Coral Torres, Crystal
- 8 Wortham, Janie Sheng -- thank you Janie, and of
- 9 course Lucy Marvin.
- 10 From the Office of the Managing Director,
- 11 Adil Gulamali, Don Sawyer, Jon Smith, Mike Sullivan,
- 12 Roberta Workman and Rachel Campbell.
- Office of Economics, Alex Dusenberry, Kim
- Hillenbrand, Dick Klem, Laura Mizner, Doug Pelsey,
- 15 Rob Plum, Pedro Ramirez, Laura Schneider, Jennifer
- 16 Smith-Bozek, Frank O'Connor and Bill Brennan.
- 17 The General Counsel's Office, Anika
- 18 Cooper, John Rackson, Craig Keats, Judy Leader -- who
- 19 works with us, and of course Patrick, Marty, Ellen,
- Lisa, Val, Amanda -- who has stepped away, Greg
- again, so thank you for bearing with me, but really
- obviously a lot of effort from doing charts and

- 1 tracking the revenues that we've asked the parties to
- 2 report, and just putting together the most enormous
- 3 history of demurrage.
- 4 I had no idea that most of these issues
- 5 are a repeat of hundreds of years of pain and
- 6 suffering. But really, thank you. As I had
- mentioned a couple of times, the record will be open
- 8 for 14 days, until June 6th, so that anyone that
- 9 wants to respond to what has been said today, you are
- welcome to submit comments.
- And I, of course, want to turn to my
- 12 colleagues to offer any closing comments they might
- have.
- 14 COMMISSIONER OBERMAN: Very briefly, you
- 15 have covered the waterfront on the staff and the
- tremendous effort that's been put in by everybody. I
- just want to single out you for having led this
- 18 effort from the beginning and managed these lengthy
- 19 and complex hearings, really you've done a remarkable
- 20 job for all of us in getting us through it.
- And I'm going to defer to how you wind
- 22 things up, thank you, but thank you much.

Page 1004 VICE CHAIRMAN FUCHS: I echo Marty and 2 thanks, Ann, for everything you've done to give us, 3 you know, really great information to consider this 4 carefully and thoughtfully, and your leadership from 5 before we got to the Board has been truly helpful 6 and all the staff as well. 7 You know, Ann mentioned the materials, but 8 I think all of us have multiple binders. And then we had a separate one of just analysis and, you know, 10 from the legal side and the economic side and 11 everything in between operationally, so staff did 12 really a tremendous job and many of those folks are 13 here and Ann listed them. 14 And thank you to all of you, especially 15 the ones who have been here through it all and all 12 16 panels, but you know, we know how valuable your time 17 is and how much effort and thought went into your 18 filings, and so it's very much appreciated and made 19 for a very enlightening hearing. CHAIRMAN BEGEMAN: Yes, and I also --20

22 the carriers were asked to provide detailed

21

besides thank you for your written testimony.

- 1 information by May 1st, and they all delivered as
- well, so again, I think you can feel our
- 3 appreciation.
- 4 COMMISSIONER OBERMAN: You know Ann
- before, I want to -- I meant to just say before you
- 6 get to wherever we're going from here --
- 7 CHAIRMAN BEGEMAN: Home.
- 8 COMMISSIONER OBERMAN: Home, speaking for
- 9 my own experience here, this has been an eye-opening
- 10 experience into the railroad industry. I've heard a
- 11 lot in the 4 and a half months or so that I've been
- here of issues raised by shippers and railroads, but
- 13 I have never seen so much focused attention and
- really opening the door to what I think is a
- 15 significant portion of this industry and the
- difference of what we're hearing from the railroad
- 17 side and the shipper/receiver side.
- 18 It has really been a remarkable event and
- 19 I think points towards future actions, whatever they
- 20 are, anyway.
- 21 CHAIRMAN BEGEMAN: Yeah, so I certainly
- 22 hope that the railroads will reply to some -- with

- the comments that they've heard today, let the Board
- 2 know in their reply what actions they might be taking
- 3 in response.
- When I would say I kind of started this
- 5 effort last fall, it wasn't because any shipper
- 6 complained to me, believe it or not. It was that I
- 7 was -- I found it questionable when the railroads
- 8 told me what they were going to do, it didn't seem
- 9 logical to me for some of their changes or frankly,
- 10 it didn't seem fair.
- So, you saw my letters and my continued
- 12 letters, so it wasn't that I was pushed, you know, I
- 13 really think that things -- we can't fix every
- 14 problem but we can shed light on issues, and we can
- 15 take action, when we need to take action and we will
- take action when we need to take action.
- 17 A lot of good ideas, constructive ideas
- were offered, and I am still in the process of
- 19 considering, frankly, all of them. And we will have
- 20 meetings and determine what next steps to take, but I
- do think that things can be, you know, things can be
- 22 better than they are.

| | Page 1007 |
|----|---|
| 1 | The shippers and the railroads need each |
| 2 | other, and if we need to be the marriage counselor, |
| 3 | we will be, but I am hopeful. I think, I really want |
| 4 | to commend UP. They have made some adjustments based |
| 5 | on your feedback and I'm going to remain hopeful |
| 6 | that other carriers are going to do the same. |
| 7 | Now there are some folks, such as KCS, who |
| 8 | is also in the room, maybe they don't need to make an |
| 9 | adjustment, you know, people your hair is not on |
| 10 | fire because of their actions, but again I hope that |
| 11 | everyone is just going to be level-headed, consider |
| 12 | what they can do for their customers and how the |
| 13 | network can still be fluid, because that is in the |
| 14 | interest for the shipper and the carrier and the |
| 15 | economy. |
| 16 | COMMISSIONER OBERMAN: Well put. |
| 17 | CHAIRMAN BEGEMAN: Alright, we'll gavel |
| 18 | out and thank you for everything again. |
| 19 | (Whereupon at 5:28 p.m., the hearing was |
| 20 | adjourned.) |
| 21 | |
| 22 | |

| A 691:12 693:2 account 819:1,5 active 759:19 837:2 840:19 8 898:21,22 899:5 744:2 777:16 924:12 953:9 843:18,19 addressed AAC 602:10 603:2 acceptable 633:5 accountability activities 629:3 680:6 68 abide 959:19 accepts 818:17 accountable 692:12 849:20 966:8 817:15 ability 618:6 680:3 840:7 accounted 999:8 accounted 999:8 activity 639:12 addressing accounted 82:22 8 | 607:13 6:4 |
|---|---------------|
| a.m 596:5 697:12 737:14 738:8 850:2 893:6 actively 777:12 961:12 898:21,22 899:5 744:2 777:16 924:12 953:9 843:18,19 addressed AAC 602:10 603:2 838:18 840:12 accountability activities 629:3 680:6 68 604:12 acceptable 633:5 accountable 692:12 849:20 966:8 817:15 ability 618:6 680:3 840:7 accountant 929:20 969:22 addressing | 607:13 6:4 |
| 898:21,22 899:5 AAC 602:10 603:2 604:12 abide 959:19 ability 618:6 680:3 840:7 744:2 777:16 838:18 840:12 acceptable 633:5 accountable 692:12 | 6:4 |
| AAC 602:10 603:2 604:12 acceptable 633:5 accepts 818:17 ability 618:6 680:3 840:7 accountable 692:12 ability 618:6 680:3 840:7 accountable 692:12 | 6:4 |
| Acceptable 633:5 953:3,15 649:22 814:16 782:17 8 acceptable 6959:19 accepts 818:17 accountable 692:12 accountable 692:1 | |
| abide 959:19 accepts 818:17 accountable 692:12 849:20 966:8 817:15 ability 618:6 680:3 840:7 accountant 929:20 969:22 addressing | |
| ability 618:6 680:3 840:7 accountant 929:20 969:22 addressing | 12.17 |
| (07.2 (12.10) | .722.0 |
| 729.77 771.7 access 007.3 013.10 accounted 999.0 activity 039.12 622.22 6 | |
| 750.22 774.7 | 37.0 |
| 701.2.1707.20 | |
| 013.10,17 017.0 | |
| 031.1 070.3 943.1 | |
| 772.0 | |
| able 001.0 037.1 | |
| 073.3 077.3 | |
| 000.11 072.17 | 039.10 |
| 077.13 703.3,0 | .15 |
| 712.1729.13 | .13 |
| 750.7,15,10 | 11 |
| 750.17 759.19 | |
| 710.12 711.20 | |
| 747.3 772.1 | 11.12 |
| //3.21 //0.T | 1007-20 |
| 790.13 792.0 | |
| 793.2,3 601.1 | |
| 007.10 077.5,7 | |
| 055.5 050.20 | 01.1 |
| 037.3 002.13 | 7 706:5 |
| 000.13 077.11 | |
| 007.10 710.22 | 6:1 937:5 |
| 717.14,10 720.7 | |
| 052 616 20 055 5 747 11 | |
| 070.12.10.10,17 | 0111 |
| 001.17 755.5 | t 660:20 |
| 972:14 983:19 1000:8 966:6 968:10 604:13 950:3 adjustmen acquisition 611:20 added 621:13 659:1 839:21 90 | |
| Abrams 717:5 975:1 977:19 694:14 676:13 958:16 941:4,6 1 | |
| absence 692:15 984:5 act 611:9 653:16 959:9 adjustmen | |
| 975:20 accessorials 972:6 679:15 722:4 addition 609:8,20 856:3 86 | |
| absent 618:5 757:6 accident 766:4 808:18 835:2 614:22 616:3 918:19 9 | |
| absolute 788:13 969:8 924:1 962:10 682:21 790:13 1007:4 | - |
| 821:11,21 accommodate acted 795:20 809:18 830:10 administer | ing |
| absolutely 638:21 601:5 609:1 acting 608:22 836:1 978:14 628:4 | J |
| 639:16 706:18 651:15,17 672:15 action 653:8 702:12 additional 603:9 administer | s 835:14 |
| 730:1 765:2 679:7 685:13 773:9 1006:15,15 605:8 610:5 629:1 administra | |
| 750.1 763.2 791:18 844:4 686:21 696:22 1006:16,16 631:9 644:18 936:6 | ~ |
| 897:2 911:2 935:3 698:7 703:18 actions 603:21 673:2,22 674:15 administra | tive |
| 967:21 980:15 712:1 608:10,17 609:13 674:17 679:9 776:8 95 | |
| absorb 791:17 accommodating 609:15 610:6,9 681:3 687:4 700:4 Administra | ator |
| absurdity 776:8 801:17 628:9,19 629:10 730:21 731:8 600:14 9 | 74:10 |
| ACC 603:11,16,22 accommodation 639:17 653:19 791:2 810:12 admitting 6 | 547:15 |
| 604:2 605:17 647:21 680:10 683:1 826:11 834:9 729:22 | |
| 606:9.12 607:10 accompanied 685:6 686:15 956:21 976:17 adopt 610: | |
| 608:4 610:9.20 612:18 670:14 716:10 747:13 Additionally 955:12 9 | 78:11 |
| 664:7 954:5 915:7 960:22 691:11 823:18 adopted 60 | |
| accept 618:6 627:3 accomplish 648:1 965:5 1005:19 address 630:3 625:17 6 | |
| 645:8 668:3 825:14 913:5 1006:2 1007:10 812:10 813:16 954:3 97 | 8:11 |
| | |

| adopting 705:0 | ogno 652.0 (50.2 | 702,15 15 10 | 000,22 016.12 17 | angrapina 611.10 |
|-----------------------------------|--------------------------------------|-------------------------------|------------------------------------|-------------------------------------|
| adopting 795:2 | agree 653:9 658:3 | 793:15,15,19 | 902:22 916:13,17 | answering 611:12 |
| 978:1 | 682:6 781:16 | 811:6 817:7 936:1 | 919:14 926:11 | 796:3 921:15 |
| adoption 954:5 | 785:15 798:3 | 963:4 | 960:4 967:11 | 922:1 |
| advance 717:17 | 806:22 846:3 | alls 850:20 | 977:22 984:19 | answers 651:20 |
| 835:21 879:9 | 850:8 862:20 | allude 644:14 | 985:17 997:12 | 897:15 1000:14 |
| 939:15 998:14 | 903:16 911:21 | alluded 642:21 | 1000:2 | anticipate 954:6 |
| 999:5 | 913:19 915:11 | 663:2 996:19 | amounts 890:9 | anticipated 647:8 |
| advantage 780:21 | agreed 601:5 646:6 | Alphabetically | 891:20 901:18,20 | 666:13 |
| 862:7 955:1 adversarial 963:14 | agreement 646:8 | 841:8 | 903:12 976:16 | anticipates 619:6 |
| | 758:7 773:16 | alright 623:16 | amplified 698:6 | antitrust 861:19 |
| adversely 609:13 | 802:21 818:8 | 639:2 642:3 | Anaheim 612:7 | 887:6 |
| 609:16 | 918:22 985:17 | 661:15 670:4 | Analogous 611:3 | anybody 753:21 |
| advice 741:6 | agreements 643:6 | 676:1 732:18 | analogy 772:3,7,7 | 879:21 |
| Advisory 754:18 | 906:21 | 734:3 739:4 740:8 | 772:21 964:21 | anymore 698:10 |
| 819:16,20 843:12 843:17 951:20 | ahead 627:13 | 743:15 746:16 | analysis 621:4 | 721:17 767:5 |
| | 643:22 670:6 | 750:1,3 754:11 | 681:10 688:12 | 791:22 910:17 912:15 1000:20 |
| advocate 625:10 | 675:2,12 676:14 | 807:2 814:11 | 706:20 878:19 | |
| 758:2 AEPCO 974:11,16 | 678:9 842:21 | 849:9 891:15 | 891:6,9 904:16 | anyway 703:7 737:10 739:9 |
| 974:20,21 | aid 960:22 aids 694:2 | 895:10 897:13 910:21 923:3 | 938:8 1004:9 | 906:8 1005:20 |
| AEPCO's 976:7 | aimed 798:13 809:2 | 948:12 982:11 | analyzed 919:6 | |
| aerosol 613:13 | 835:9 | 1007:17 | analyzing 744:9 anchoring 803:9 | Apache 976:8 |
| | airline 973:17,19 | alter 763:21 | ancient 995:19 | apart 728:8 793:2 806:6 |
| aerosols 612:22 affairs 597:5 | airline 975:17,19 airlines 760:22 | alternative 627:4 | and/or 818:22 | |
| 598:19 599:17 | 765:19 | | 823:16 847:6 | apologize 620:8 908:10 |
| 797:12 798:9 | Alabama 693:19 | 627:10 811:20 986:5 988:4 | 862:1 868:15 | |
| affect 609:14,16 | 694:10,13 | alternatives 626:3 | 871:12 | apparently 736:14 982:6 |
| 632:16 650:11 | Alberta 671:17 | 627:6,8 646:4 | anecdotal 665:14 | appear 601:19 |
| 946:9 | 689:19 | Amanda 1002:20 | angst 929:9 | 606:2 619:1 |
| affiliated 689:13 | alert 930:11 | amazing 765:2,2 | Anika 1002:17 | 781:22 931:9 |
| afford 633:19 | Alex 1002:13 | 787:14 | Ann 708:18 929:19 | 978:14 |
| affording 623:14 | aligned 898:16 | amend 778:13 | 979:7 1004:2,7,13 | APPEARANCES |
| affords 956:17 | alike 631:8 | amendment 910:22 | 1005:4 | 597:1 598:1 599:1 |
| afraid 980:3,6 | alleviate 655:11 | America 597:17 | Ann's 883:18 | APPEARANCES |
| 981:15 | 702:6 725:20 | 612:5 625:5 | anniversary 826:1 | 600:1 |
| afternoon 698:3 | 727:9 | 631:15 670:22 | announced 603:6 | appears 606:6 |
| 770:10,10 814:11 | alleviating 832:2 | 689:17 735:3 | 673:5,11 | 615:3,22 616:3 |
| 825:18 827:17 | Alliance 600:12,17 | 966:12 | announcement | 618:19 924:21 |
| 835:12 951:13 | 951:9 952:7 | American 597:3 | 619:3 683:3,14 | 955:1 |
| 966:1 974:6 | 974:14 | 602:14 | annual 820:6 | appetite 715:6 |
| Ag 670:11 705:17 | Allison 1002:5 | Americold 781:1 | 901:14 964:15 | applaud 781:12 |
| agency 691:19 | Allocating 776:18 | Ames 670:17 671:2 | annually 672:7 | appliance 693:21 |
| 948:1 | allocation 777:4 | 671:7,9,14,14 | answer 629:16 | appliances 695:1 |
| agenda 754:20 | allotted 601:17,18 | 672:15 684:13,15 | 632:1 636:20 | applicability 680:4 |
| agent 834:12 | 832:8 954:12 | 686:5 715:7,11 | 649:3 654:19,21 | 885:13 936:5 |
| agents 773:21 | allow 608:16 | amicably 748:12 | 669:20 704:4 | 937:2 939:12 |
| aggregate 776:10 | 669:15 793:19 | 839:1 | 733:16 770:5 | applicable 835:17 |
| 776:14 | 839:17 | amortize 721:10 | 787:3 814:8 | 894:3 936:7 |
| aggregated 792:18 | allowance 721:12 | amount 613:17 | 820:19 826:5 | application 669:10 |
| 793:1 | allowed 616:14 | 642:9 696:17 | 838:10 856:17 | 827:8 838:15 |
| agnostic 785:17 | 727:17 976:1 | 713:3 732:9 | 861:12 889:18 | 860:12 |
| ago 666:19 698:9 | 977:11,20 978:3 | 787:14 807:13 | 913:21,21 917:12 | applied 617:18 |
| 698:14 747:20 | allowing 623:6 | 818:8 821:14 | 921:2,9,21 927:5 | 816:12 841:18 |
| 748:16 843:12 | 809:2 951:21 | 846:7 847:7 869:2 | 927:13 929:5 | 851:15 927:1 |
| 859:11 886:21 | 961:5 978:14 | 878:12 881:8 | 944:18 961:5 | applies 621:7 |
| 988:11 995:18 | allows 630:20 | 889:6 890:6,8 | 980:2,5 | 678:21 856:19 |
| | I | | | l |

| | | | | Page 1010 |
|---------------------|---------------------------|----------------------------|---------------------|----------------------------|
| 961.2 967.4 | annuarimata 691.1 | 909.4 6 006.11 10 | 029.16 | associations 974:16 |
| 861:2 867:4 | approximate 684:4 | 898:4,6 906:11,19 | 938:16 | |
| 929:22 | 917:18 | 907:3,9,12,19 | asserted 621:5 | assume 664:10 |
| apply 608:9 614:1 | approximately | 908:3 909:13,22 | assess 614:7 622:20 | 682:8 709:15 |
| 636:22 650:2 | 613:15 672:2,5,6 | 910:6,20 911:2,5 | 782:15,20 956:5 | 734:15 737:15 |
| 653:18 668:9 | 691:7,8 821:19 | 921:8,16,22 | 956:18 957:1 | 786:11 843:5 |
| 683:4,8 687:7,15 | 830:6 957:6 | 926:15 927:10 | 995:6 | 857:21 904:22 |
| 860:4 876:19 | April 684:10 846:7 | 928:8 932:10,15 | assessed 606:4 | assumed 813:14 |
| 878:22 977:18 | 955:6 976:20,22 | 932:22 | 614:19 616:19 | 997:15,22 |
| applying 649:8 | arbitrary 615:3 | arrange 643:5 | 617:10 618:4 | assumes 638:17 |
| 680:3 | arbitrate 973:11 | arrangement 644:1 | 680:11 681:16,19 | assuming 711:13 |
| appreciate 602:12 | arbitration 654:4,8 | arrangements | 688:9 702:9 | 752:3 903:7 |
| 602:13,19 624:13 | 722:5,11,17 733:6 | 752:13 789:5 | 840:10 912:7 | 987:21 |
| 645:20 662:14 | 733:9,11 | 791:21 | 973:6 994:6 | assumption 688:16 |
| 683:3 689:13 | arbitrator 723:4 | arrival 671:13 | assessing 615:17 | 711:18 |
| 693:11 695:4 | archive 601:22 | 684:4 896:2,7,10 | 687:12 718:16 | assumptions 813:4 |
| 704:4 721:22 | Arctic 831:7 | 897:21 954:7 | 924:15 | assurance 710:8 |
| 754:16 778:19,21 | area 720:10 807:16 | 957:11 995:2 | assessment 616:4 | assure 794:21 |
| 796:14 814:5 | 817:18 819:2,8 | arrive 652:10 684:7 | 617:7 953:12 | 948:20 |
| 827:16 842:22 | 821:4 826:4 | 688:2,7 760:18 | 958:15 | assuring 808:4 |
| 872:13,16 876:8 | 848:10 878:1,6 | 763:7 859:15 | asset 621:10 628:18 | Atlanta 697:2 728:4 |
| 923:4 948:10 | 922:17 945:21 | 872:7 995:4,5 | 629:12 630:17,20 | attaching 773:12 |
| 951:5 998:8 | areas 643:18,19 | arrived 620:2 681:1 | 631:3 658:2 | attain 818:7 |
| appreciated 634:17 | 644:19 707:19 | 764:7 898:17 | 681:22 762:5 | attempt 776:5 |
| 670:2 731:9 807:3 | 807:14 819:22 | 958:5 | 825:12 826:20 | attention 632:1 |
| 878:20 929:8 | 877:22 890:11,16 | arriving 619:17 | 828:17,21 830:12 | 645:4 839:16 |
| 1004:18 | 974:22 | 759:14 | 832:5 833:9,15 | 894:6 896:19 |
| appreciation | arguable 777:8 | aside 663:5 717:8 | 835:10 881:15 | 904:6 1005:13 |
| 1005:3 | argue 729:12 | asked 611:22 654:2 | assets 621:15 | attitude 685:15 |
| appreciative 660:22 | 911:22 | 658:17 662:17 | 622:15 626:17 | attitudes 685:6 |
| approach 630:5 | argument 655:18 | 686:2 708:19 | 630:19 659:2 | 686:15 |
| 648:7 650:18 | 657:21 658:9 | 715:6 726:9 727:1 | 683:19 762:6,7 | attorneys 654:20 |
| 680:14 813:4 | 714:18 726:8 | 727:3 736:10 | 815:13 825:2,4 | attractive 627:6 |
| 814:2 835:8 | arguments 621:5 | 742:9,10 749:2 | 852:4,15 853:10 | attributable 738:18 |
| 843:20 845:4 | arises 776:13 | 760:15 800:4,6 | 862:8 871:11,18 | 738:19 837:9 |
| 860:2 894:3,4 | Arizona 600:12,15 | 834:2 878:3 909:9 | 887:20 888:7 | 861:14,15 |
| 925:20 929:3 | 671:15,21 689:18 | 912:14 918:3 | 913:3 954:21 | attribute 793:2 |
| 955:21 978:2 | 693:19 974:10 | 933:4,7 962:11 | assign 639:9 776:17 | attributed 798:4 |
| appropriate 624:19 | 976:8 986:3,6,22 | 979:7 1003:1 | 776:21 810:5,19 | audience 759:13 |
| 634:21 668:20 | 987:5,18 | 1004:22 | assigned 761:7 | audit 611:5 848:4 |
| 779:18 785:19 | Arpin 599:8 814:11 | asking 645:21 | 776:12 809:10 | 926:18 928:9 |
| 797:15 808:5 | 814:14 843:8,10 | 703:21 735:2 | 846:15,17 892:12 | auditing 856:2 |
| 819:6 822:20 | 846:16,20 847:4 | 758:3,3,4 796:1 | assignment 640:6 | audits 816:18 |
| 824:11 825:11 | 848:12 849:1,6 | 891:17 913:20 | Assistant 599:8 | August 733:10 |
| 836:22 837:6 | 851:20,22 852:8 | 914:3 921:16 | 814:14 | 826:22 |
| 839:21 840:7 | 852:12 853:4 | 922:9,19,20 | associate 779:3 | authority 611:8 |
| 856:10 867:13 | 854:7,12 855:9,13 | 927:16 928:3 | associated 641:16 | 870:3 951:16 |
| 876:14 884:15 | 855:16,19,22 | 929:14 935:19,19 | 777:13 808:18 | authorized 911:18 |
| 911:10 916:14 | 857:18 861:16 | 968:22 | 813:12 859:1 | 913:13,15,17,19 |
| 918:20 919:20 | 863:6,9,12 864:1 | asks 610:20 624:22 | 861:7 904:16 | 913:19 |
| 920:9 922:6 948:3 | 864:18 865:1,3,7 | aspect 657:11 | 975:9 | auto 761:3 |
| appropriately | 865:9,14 866:5,11 | 722:18 828:19 | association 598:10 | automatic 605:2 |
| 793:3 912:7 | 866:16,19 867:17 | 877:21 977:19 | 598:14,17 600:6 | 636:6,7,13 655:12 |
| 924:15 | 867:20 868:11,19 | aspects 771:13 | 755:7 770:14,20 | 655:17 803:16 |
| approve 818:5 | 868:21 869:2,5,9 | 818:4 826:6 | 778:20 952:7,9 | automatically |
| approved 709:7 | 870:1,12,15,18,21 | 845:17 847:14 | 961:11 974:15,18 | 636:10 648:20 |
| 710:15,18 | 871:2 897:17 | 921:12 935:13 | 979:16 | automobile 693:22 |
| /10.13,10 | 011.2 071.11 | 721.12 733.13 | 717.10 | automobile 033.22 |
| | • | • | • | • |

| 694:20,21 | 636:6 637:9 640:8 | 673:10,18,20 | battling 1000:2 | behave 824:20 |
|--------------------------|---------------------------|----------------------|-------------------------|--------------------------|
| available 601:22 | 647:10 655:14 | 674:1,2,11 679:1 | bear 653:6 808:18 | 991:13 |
| 602:2 618:16 | 664:21 665:2 | 679:5,8,10,13 | 885:20 1001:15 | behaving 991:12 |
| 627:9 634:13 | 666:7 694:16 | 680:19 681:2,6,9 | bearing 1002:21 | behavior 729:6 |
| 643:21 644:19 | 699:2 700:8 701:8 | 681:19 682:2,13 | bears 841:19 | 773:13 774:10 |
| 736:16 757:4 | 701:11 706:21 | 684:3,5 685:11,14 | becoming 780:16 | 825:12 852:6,6,14 |
| 782:12 816:9,12 | 708:3 714:17 | 685:17 687:2,3 | 965:10 | 853:7 858:17 |
| 817:12 825:8 | 720:21 726:8,20 | 688:4,8,10 706:19 | beg 756:10 | 859:8,20 862:21 |
| 831:22 834:9 | 727:2,2 728:3,4,9 | 707:16,22 886:20 | BEGAMAN 974:4 | 864:6 865:5 |
| 836:1 871:12,19 | 728:20 729:13 | Barilla's 672:2 | began 709:2 | 890:14,16 903:21 |
| 878:3,8 931:1,4 | 730:17 731:6 | 674:7 680:17 | Begeman 601:2 | 907:17 912:5 |
| average 614:8 | 733:5 742:15 | 681:13,22 684:9 | 611:13 623:11,13 | 915:6 990:13,14 |
| 617:7 724:1 846:8 | 744:16 745:2 | 684:11,18 685:19 | 651:3,5,21 652:11 | 990:15,16 991:11 |
| 941:22,22 995:21 | 746:11,15,16,16 | 685:22 707:22 | 652:14 653:3,17 | 991:15,17,22 |
| 998:1 | 747:16 748:10,22 | base 780:14 820:6 | 654:1,9 660:17 | behavioral 863:20 |
| averaged 822:3 | 750:2,5,14 751:19 | based 609:4 610:11 | 661:11,15 668:5 | 863:21 864:15 |
| 996:21 | 756:22 757:12 | 641:22 642:12 | 668:11,15 669:22 | behaviors 852:3 |
| averages 723:21 | 760:21 764:21,21 | 649:15,17 665:7 | 670:4 689:6,9 | behest 774:1 |
| avert 618:6 | 771:21 778:1 | 670:17 671:18 | 693:6,9 704:6,12 | beings 665:17 |
| Avery 600:10 966:1 | 795:14 797:17 | 674:4 682:10 | 704:16 705:9,16 | believe 601:12 |
| 966:7 980:6,12,15 | 830:14 838:10 | 693:17 705:16 | 706:13 707:6 | 607:11 624:19 |
| 980:20 981:1,5 | 844:7 852:14 | 709:17 711:18 | 708:5,11,16 732:5 | 626:15 629:17 |
| 982:7,14 983:13 | 854:21 855:2 | 723:11,17,18 | 732:18 733:1,4,15 | 630:5,22 635:2 |
| 984:7,13,15 985:2 | 856:21 857:14 | 732:19 735:7 | 733:19 734:3 | 637:13 643:21 |
| 985:5,7 986:11,14 | 861:11 869:7 | 753:11 789:5 | 754:7,11 770:8,11 | 646:9 654:11 |
| 986:18 987:1,6,9 | 889:13 897:14 | 816:15 836:18 | 778:16 794:16 | 655:15 656:10 |
| 987:19,22 988:6 | 901:4 911:12 | 846:12 866:13 | 796:18,20 799:7 | 662:1 668:20 |
| 989:8,13,15,18,21 | 916:22 942:9 | 886:17 890:9 | 799:14 800:12 | 696:12 699:16 |
| 990:12 991:8 | 946:1 957:6 985:3 | 905:21 909:1 | 801:4,7 807:2,7 | 703:1 733:10 |
| 992:10,15 998:21 | 986:6 988:10 | 921:10 941:21 | 814:10,12 825:17 | 734:12 737:6 |
| 999:14,22 | backdrop 632:4 | 956:3 960:4 | 840:21 842:12 | 740:7 754:6 |
| avoid 610:7 613:4 | backed 620:4 766:3 | 997:15 1007:4 | 843:7,9 844:12 | 755:14 774:5 |
| 618:3 626:7 629:2 | background 689:15 | basic 775:8 973:11 | 846:11,19,21 | 777:21 782:16 |
| 654:7 690:20 | 966:11 | 975:21 | 848:11,13 849:8 | 783:19 796:15 |
| 703:7 714:16 | backs 964:3 | basically 649:6 | 886:7 889:4 | 797:9 798:1 822:7 |
| 718:19,20,21 | backyards 741:2 | 696:16 702:9 | 931:20 932:4 | 837:18 838:1 |
| 742:6 743:16 | badly 610:16 | 716:14 721:15 | 951:4,11,14 961:7 | 848:16 849:22 |
| 773:13 786:13 | bags 755:18 | 739:13 742:16 | 961:8 965:22 | 850:4 852:1 858:7 |
| 809:4 812:4 823:5 | | 749:18 785:7 | 966:2 980:2 984:3 | 859:18 861:3 |
| 885:15 886:16 | balance 627:11 | 801:12 803:14,16 | 984:8,14,22 985:4 | 890:2 891:9 911:9 |
| 943:3 960:10 | 867:1 883:16 | 845:10 879:22 | 985:6 986:9,13,16 | 911:18 916:4 |
| 984:10 | 888:4 | 886:19 940:11 | 986:20 987:2 | 919:19 920:9 |
| avoiding 988:4 | balanced 680:14 | 943:4 984:20 | 1000:22 1004:20 | 930:22 967:15 |
| Avon 671:3,3,8,11 | 824:10 843:20 | 989:6 | 1005:7,21 | 973:5 980:7 |
| 715:8,10 | 862:22 867:21 | Basin 998:3 | 1007:17 | 1000:3 1006:6 |
| awaiting 833:7 | 960:1 | basis 627:20 636:4 | beget 631:19 | believes 824:8 |
| aware 649:21 737:3 | balances 928:17 | 648:16 650:10 | begets 625:8 630:6 | 835:7 960:22 |
| 836:7 862:7 | balancing 947:14 | 668:10,17 735:11 | beginning 826:21 | belongs 792:4 |
| 932:10,15 | 947:18 | 738:5 751:19 | 1003:18 | Ben 697:22 717:5 |
| awful 767:22 | ballpark 857:21 | 767:16 797:18 | begins 616:22 | 886:13 |
| 768:22 | bandwagon 905:1 | 822:2 831:13 | behalf 602:14 612:2 | benchmarking |
| awfully 773:5 | Bar-b-que 744:12 | 875:22 878:10 | 770:13 774:18 | 973:14 |
| B | Barilla 597:17 | 927:22 950:1 | 775:2 834:13 | beneficial 682:19 |
| | 670:5,14,17,19,22 | 963:1 995:21 | 857:1 888:5 | 865:11 |
| B 818:4 962:16 | 671:13 672:5,14 | batch 962:21 | 927:13 951:20 | benefit 628:19 |
| back 635:14,20 | 672:17,22 673:2,8 | batted 748:22 | 952:3 961:4 | 630:19 646:17 |
| | · | • | · | · |

| | | | | 1490 1012 |
|-------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|--|
| | . | . | l | l |
| 681:10 682:11,14 | biggest 603:22 | blame 692:6 736:9 | 951:14 955:19 | 677:21 698:2 |
| 695:8 701:1,14,16 | 705:2 717:8 782:4 | 737:12,13 875:15 | 960:21 961:9 | 707:18 711:14 |
| 719:3,7,9 720:11 | 806:7 845:7,16 | blaming 763:6 | 965:5 966:3 974:6 | 716:17 717:11 |
| 777:9 799:5 | 994:1 996:15 | blanket 933:20 | 978:1,11,15 980:9 | 728:8 736:11 |
| 832:20 835:7 | bill 649:13,15 | blend 895:3 | 993:12 999:1 | 739:18 768:17 |
| 843:22 873:15 | 696:10 752:10 | block 619:5 | 1004:5 1006:1 | 801:22 802:15 |
| 876:11,18 878:21 | 760:1 783:4,16,18 | blocking 683:7 | Board's 601:2 | 854:16 863:17 |
| 883:20,22 885:1 | 784:16,20,21 | blocks 829:4 | 602:1,19,20 | 873:21 879:21 |
| 893:19 895:15 | 787:12,18,19 | blown 905:2 | 607:11 718:17 | 880:13 894:19 |
| 913:7 954:20 | 793:12 801:1 | BN 817:10 862:20 | 794:21 795:18 | 896:8 908:11 |
| benefits 607:17,20 | 808:10 857:1 | 892:3 901:5 | 877:20 878:22 | 971:16 983:8,14 |
| 608:5 664:5 674:4 | 917:2 918:5 | 985:16 992:18 | 880:7 935:17 | bringing 839:16 |
| 688:13 780:20,21 | 923:15 924:22 | 994:21 | 948:1 951:19 | brings 983:12 |
| 823:1 831:22 | 925:9,14 927:18 | BN's 900:22 | 1001:11 | British 845:6 |
| 832:22 844:5 | 928:5,18 929:16 | BNSF 599:3 612:5 | boards 667:18 | broad 603:16 |
| 880:16 884:7 | 929:20 930:2 | 695:18 807:4 | 765:20 805:8 | 620:21 621:3 |
| bentonite 690:1 | 942:1 973:15,18 | 808:3,8,15,17 | Bobby 598:6 693:7 | 663:18 680:1,3 |
| Benzene 966:14 | 1002:16 | 809:1,20 810:20 | 693:14 717:5 | 879:8 |
| best 627:17 629:6 | bill's 873:18 943:10 | 810:22 811:8 | 724:22 730:7 | broader 663:16 |
| 629:18 643:22 | billable 812:20 | 812:1,8,15,21 | 740:17 748:13 | 833:22 857:19 |
| 648:2 662:2,5,7 | billed 761:17 787:1 | 813:19 841:11 | boils 647:20 | 948:2 950:6 |
| 664:21 665:1 | 793:15,16 798:14 | 851:18 889:8 | bold 731:10 | broken 769:16,17 |
| 697:9 724:19 | 798:16,19 809:19 | 948:21 952:14 | bonus 761:8 | 791:12 793:3 |
| 726:7 738:21 | 822:2 917:14 | 953:21,22 957:3,7 | boost 830:3 | 893:14 |
| 751:15 758:19 | billing 610:21 650:5 | 957:12,17 967:18 | borne 607:21 725:4 | brokerage 804:21 |
| 776:10 861:20 | 778:14 800:6 | 968:1 975:11 | bottom 676:14 | brokerages 765:18 |
| 880:7 888:14 | 809:8 815:1 821:4 | 985:12,19 | 755:12,14 973:3 | Brook 670:19 |
| 910:11 924:13 | 838:5 839:11 | BNSF's 807:14,17 | bottom-line 946:21 | brought 697:13 |
| 964:15 | 856:19 | 811:4 957:10 | bought 699:6 | 731:7 820:20 |
| best-performing | billings 821:11 | board 596:1 601:13 | Bourdon 1002:6 | 841:12 849:2 |
| 625:3 631:14 | billion 603:5 623:5 | 602:2,5,16 603:21 | Bowl 970:10 | Brown 1002:4 |
| bet 842:12 | 829:18,20 830:4,8 | 610:9,11,19,20,22 | boxcar 755:22 | bucks 700:1 |
| Bette 600:4 951:11 | 846:8 992:14 | 611:7 618:11 | 769:5 | buffer 605:10 |
| 951:15 979:12 | billions 962:15,16 | 620:8,19,21 621:4 | boxcars 755:19 | 651:15 |
| better 630:8 632:21 | bills 605:15 629:22 | 623:5,9 631:7 | 769:10,14 | build 646:5,7 |
| 652:1 664:19 | 647:7 767:11 | 651:13 654:3 | Bradford 689:18 | 706:14 764:15 |
| 699:3,13 724:20 | 788:1 810:5,10 | 679:20 680:1,5 | Branford 734:19 | 816:15 848:3 |
| 730:9 766:9 | 822:5,8 925:6 | 686:3 687:20 | break 641:12 642:1 | 928:10 940:17 |
| | 1 | | | |
| 768:19,21 811:15 | binary 941:7 binders 1004:8 | 689:2,3 693:12 | 728:8 792:20 793:2 907:13,16 | 985:15,20 986:2 |
| 833:15 855:11 | | 695:2 699:2 703:9 703:21 705:6 | 951:7 983:3 993:2 | build-up 690:14 building 605:13 |
| 856:13 864:12,13 904:10,11 909:3 | Birmingham | 716:3 752:22 | | 627:4 629:1 |
| · · | 614:12 615:5,8,14 | | break-up 639:14 | |
| 975:13 990:19 991:6 1006:22 | 615:14 bit 645:22 651:6,7 | 754:14 770:11,15 771:13 783:10 | breakdown 751:15 891:10 | 644:21 701:3,4 729:11 751:18 |
| | · · | | | |
| beyond 621:9,21 | 657:10 676:16 | 794:22 795:2,20 | breaking 828:1 | 764:16 789:10 |
| 622:7 665:12 | 712:22 718:14 | 796:14 797:4,12 | breaks 791:10 | buildings 789:11 built 764:21 813:14 |
| 795:5 859:1 | 722:10 723:14 | 799:10 800:15 | 969:10 | |
| 923:17,19 956:15 | 725:3 731:6 | 824:6 826:3,5 | breathing 773:1,4 | 849:16 |
| 962:19 | 755:13 771:18 | 834:2 842:10 | Brendetta 1001:20 | bulk 742:18 955:14 |
| big 647:22 705:2 | 772:5 779:7 | 860:20 870:2 | Brennan 1002:16 | 958:20 |
| 706:11 717:12,13 | 800:15 843:16 | 877:3,8,9 878:2,5 | Bridge 766:3 | bunch 639:7,14 |
| 718:2 741:1 747:7 | 863:18 866:12 | 878:6 879:14,18 | brief 968:5 | 728:20 745:1,2 |
| 750:16,18 751:1,5 | 901:10 905:18 | 880:5 887:9 | briefly 630:3 | 746:19 747:2 |
| 759:10,11 805:8 | 912:12 938:13 | 908:12 915:20,21 | 674:22 975:4 | 885:9 940:9 |
| bigger 884:22 | 966:18 967:7 | 927:17 935:6 | 976:9 1003:14 | 972:12 |
| 985:10 | 970:20 | 943:21 944:2 | bring 676:21 | bunched 690:19 |
| | 1 | 1 | ı | I |

| | | | | - |
|-------------------------------|---------------------------|--------------------------|----------------------------|---------------------------------------|
| 729:18 739:15 | 875:15 883:10 | cap 673:17 674:15 | 698:18 701:22 | oomnion's 727:0 17 |
| 788:20 | 902:2,7 903:10 | 679:6 | 710:6 713:20,22 | carrier's 737:9,17 738:3 795:6 |
| bunches 745:5 | 936:21 965:18 | capabilities 712:5 | 710.0 713.20,22 | carriers 613:3 |
| bunching 604:8,10 | businesses 694:8 | 960:10 | 725:14,19,19 | 621:14,20,21 |
| _ | 884:3 | capable 888:19 | | |
| 604:18 605:11 606:5 608:13 | busy 766:7 | | 726:6,7 728:7 | 629:8 640:7 685:21 703:13 |
| | | capacities 711:14 | 730:12,13,17 | |
| 619:13,15,16,21 | butane 966:15 | 829:14 | 748:4 750:11 | 732:9 736:10,11 |
| 620:6 635:5,6 | buy 674:6 698:11 | capacity 612:16,17 | 751:6 756:3,21,22 | 823:21 889:5 |
| 638:4 651:16 | 700:19 769:10 | 615:7 619:19 | 758:14 759:22 | 909:11,19 952:20 |
| 696:15,20 701:3 | 875:11 940:17 | 627:4,9 629:1 | 765:8 769:11,17 | 962:4,11,13 963:9 |
| 729:11 732:1,22 | buying 623:22 | 630:16 636:7,9 | 803:9,20 817:14 | 964:6,16 977:11 |
| 735:11,13,17,18 | <u>C</u> | 639:8 643:19,20 | 823:22 824:1 | 977:18 1004:22 |
| 736:12,18,19 | | 643:20 644:2,18 | 831:19,20 832:1 | 1007:6 |
| 738:20 739:1 | C 601:1 818:5 | 644:19 672:14 | 840:5 848:18 | carries 624:21 |
| 740:13 746:22 | C-N 928:22 | 673:3,19,21 674:4 | 861:20 865:14 | carry-back 976:17 |
| 751:2,3,4,4 756:2 | calculate 642:9 | 674:18 677:2 | 868:12 872:3,6 | cars 604:8 606:3,15 |
| 782:1,15,20 | 891:3 960:2 | 679:10 687:5 | 890:20 891:1 | 606:19 610:2 |
| 785:12,14 787:4 | calculating 644:8 | 711:12 745:3 | 892:11 893:5,6,20 | 612:16,17 613:1 |
| bunching's 751:7 | calculation 687:11 | 746:15 747:3 | 893:20 898:17,22 | 613:15 614:1,3,6 |
| bundle 975:8 | 742:9,15 891:18 | 750:20 751:8 | 899:3,5 909:20 | 614:7,8,14 615:13 |
| burden 627:7 644:8 | 891:18 | 753:6,12 754:4 | 917:7 919:3 927:1 | 616:6,7,10,12,13 |
| 645:1 654:18 | calculus 864:8 | 773:19 782:5 | 927:2 969:20,20 | 616:15,18 617:6 |
| 738:3 856:5 917:5 | 943:5,20,21 944:3 | 789:5 791:16 | 973:9 988:9,13 | 617:12,21 618:2,6 |
| 917:9,16 918:7 | 944:5 | 807:22 812:6 | 989:2,8 991:4 | 618:9,16,18,21 |
| 930:3 953:13 | calendar 669:4,5 | 828:12,18 829:2 | 993:7 996:7 997:6 | 619:7,17 620:1,3 |
| 964:2 | 903:1 | 829:15 830:3,11 | 997:7 | 620:15 621:16 |
| burdens 776:8 | California 612:7 | 832:3,14 862:6 | car's 763:19 809:16 | 622:7,21 626:3,8 |
| 960:15 | 671:16,21 693:17 | 871:12 913:2 | car-day 617:10,15 | 626:8,13 635:11 |
| burdensome 967:14 | 693:19 985:10 | 937:1 945:19 | care 624:6 739:8 | 643:1 644:6,9 |
| burned 859:3 | call 694:8 718:5 | 950:19 963:6 | 766:7 791:16 | 645:9,18 649:4,5 |
| busiest 697:2 | 754:8 787:8 | 975:17 990:11 | 861:21 884:17 | 652:10,19,21 |
| business 613:7 | 882:19 1002:5 | capital 603:6 | 997:1 | 656:6,20,20 657:1 |
| 615:21 619:3,13 | called 681:3 710:17 | 685:11 686:20 | careful 933:20 | 657:7,8,9,12,13 |
| 624:1 625:6 | 883:2 969:20 | 715:16 741:21 | carefully 782:8 | 657:21,22 658:12 |
| 628:11,15 629:11 | calls 759:16 847:6 | 743:2 829:3,16,17 | 807:10 836:13 | 658:15,16,20,20 |
| 629:15 631:17 | cameras 768:6 | 829:20 904:13 | 842:14 1001:4 | 659:3,4,6,10,12 |
| 643:1,14 645:6 | Campbell 1002:12 | 962:12,16 965:17 | 1004:4 | 659:14,17,22 |
| 670:12 685:19 | Canada 597:21 | 971:15,16,17 | cargo 611:2 | 660:1,7,13 672:6 |
| 686:2 689:15 | 670:16 692:3 | 983:3,6,8,11 | carload 827:13 | 672:7,12,13 675:1 |
| 690:8 694:8,11,15 | 707:20 722:4,17 | captive 693:1 | 846:17 | 675:8,10 676:21 |
| 695:8,20 698:11 | 724:7 732:20,22 | 966:17 972:5 | carloads 825:5,7 | 676:22 677:1,5,5 |
| 703:17 715:14,19 | 734:8,9 739:12 | 973:12 | 962:3 971:16,17 | 677:6,11,13,15,17 |
| 729:15 744:4 | 740:6 827:4 | capturing 993:14 | 983:9 | 677:19,20,21,22 |
| 751:22 758:8 | 828:10 845:7 | 998:14 | carried 692:8 965:7 | 678:2,5,7,22 |
| 762:18,19 768:16 | 870:21 890:13 | car 606:1 614:1 | carrier 608:15 | 681:7 683:8,9 |
| 768:16 770:6 | Canada's 845:9 | 616:22 617:1,2,4 | 618:10 622:9 | 684:20,22 685:20 |
| 772:22 776:15 | Canadian 599:7,11 | 617:8,9,10,13,17 | 637:19 639:4 | 685:22 686:7 |
| 790:2,8,19 793:7 | 671:6,17 689:12 | 617:19,20 618:15 | 640:2 658:21 | 687:9,13 690:15 |
| 801:10,13,14 | 691:19,22 692:5 | 621:9,14 622:1 | 716:16 733:2 | 695:1,14 696:13 |
| 802:8,12 810:15 | 722:4 733:2 | 627:20 647:12 | 734:18 736:15,15 | 697:13 698:9,22 |
| 810:16 813:21 | 739:12 740:5 | 656:16,16 657:19 | 737:13,21 740:13 | 699:2,5,8,9,12,14 |
| 818:16 819:18 | 807:4,4 814:15 | 674:8,9,9 677:2,8 | 753:5,10 795:4 | 699:14,16 700:3 |
| 826:6 838:7,8,9 | 825:21 | 678:22 679:1,2 | 796:5 813:20 | 701:10,10,12 |
| 838:15 846:5 | cancel 604:19 | 680:9 682:22 | 823:17 877:13 | 702:11 703:12 |
| 847:14 848:6 | 837:10 | 683:4,9 685:2 | 917:5 937:16 | 704:22 713:14,16 |
| 855:3 857:4 | cancelled 957:7 | 687:9 697:4 | 945:5,7 1007:14 | 713:17,17 720:5 |
| | l | | | I |

| | i | | <u> </u> | i |
|--------------------|---------------------------------------|----------------------------------|-------------------|----------------------|
| 725:2,5,8,10,11 | 663:1 669:14,14 | 862:11 | 634:11,16 635:5,9 | 855:6,10,15,18,20 |
| 727:3 728:7 | 680:1,1 691:3 | causing 749:5 792:9 | 636:5,12,16,19 | 856:4 863:14 |
| 729:12,13,16 | 697:9 725:18 | 975:19 977:17 | 637:2,7,15,18,20 | 864:4,22 865:2,6 |
| 730:3,6,10 731:14 | 728:22 745:1,3,13 | cautions 823:14 | 638:5,9,13,22 | 865:8,13,20 866:6 |
| 731:15 732:2 | 746:7 753:17 | ceiling 916:15 | 639:13,20 640:11 | 866:15,18,21 |
| 734:15 732:2 | 767:16,16 772:17 | celebrate 959:10 | 640:20 651:3,5,21 | 867:19 868:1,18 |
| 736:16 738:7,12 | 775:12,19 790:11 | celebrating 825:22 | 652:11,14 653:3 | 868:20 869:1,4,8 |
| 738:13,15,17 | 803:18 857:3 | center 632:7 967:4 | 653:17 654:1,9,10 | 869:11 870:2,14 |
| 739:2 745:1,22 | 860:14 861:2,4 | 967:19 969:5 | 654:11 655:1,5,16 | 870:17,20 871:1 |
| - | · · · · · · · · · · · · · · · · · · · | | | · · |
| 747:7,9,11,12 | 877:8 878:19 | 970:11 978:10 centered 835:15 | 656:1,8,15 657:6 | 872:13 874:18 |
| 748:2,5,14,18,20 | 880:14 896:11 | | 657:17 658:6,14 | 875:4,13,18 876:2 |
| 749:3,5,6,12,20 | 917:4,6 920:4 | centers 805:6 | 658:22 659:7,13 | 876:7 878:17 |
| 750:14,14 751:17 | 922:11,17,19 | central 811:1 814:2 | 659:18 660:2,17 | 879:13 880:11,20 |
| 752:5,9,11,12,15 | 923:11 933:19 | centric 888:7 | 661:11,15,16 | 880:22 882:13,21 |
| 757:9 759:14 | 947:3 949:1 | cents 744:17 829:21 | 662:3,14 668:5,11 | 883:3,8,18 886:7 |
| 760:10 764:14,16 | case-by-case 797:18 | CEO 624:20 815:3 | 668:15 669:1,6,12 | 889:4 893:9,18 |
| 764:16,18 766:13 | cases 605:8 619:22 | certain 734:1 | 669:17,21,22 | 894:8,14,17 895:2 |
| 768:17 774:2 | 627:3 646:6 663:3 | 805:13 847:7 | 670:4 689:6,9 | 895:7,10 930:13 |
| 782:8,10,10,13 | 663:13 665:21 | 861:21 882:7 | 693:6,9 704:6,12 | 930:21 931:12,16 |
| 786:15 787:1,6,14 | 775:21 776:20 | 952:22 970:12 | 704:16 705:9,16 | 931:20 932:1,4 |
| 788:5,7,10,12,15 | 777:15,17 810:15 | 997:19 | 706:13 707:6 | 933:6 937:21 |
| 789:13,17 790:10 | 838:22 852:18 | certainly 622:16 | 708:5,11,16 | 938:3,6,14,18 |
| 790:13,16 791:3 | 860:15 863:12 | 624:13 629:12 | 718:14 719:16 | 939:5,10,14,17,21 |
| 792:11 795:5 | 877:11 879:10 | 633:16 637:3 | 720:6 721:6,18 | 940:2,8,14,20 |
| 797:22 801:21 | 880:12 883:13 | 638:1 642:6 | 722:7 723:6,20 | 941:2,9,15 942:6 |
| 802:1,15 803:13 | 890:3 933:22 | 645:20 647:18 | 724:5,12,15,21 | 942:14,17 943:7 |
| 806:17 811:9,10 | 949:5,22 | 651:12 652:1 | 725:8,13,17,22 | 944:2,12,21 |
| 811:13,16 815:14 | cat 689:22 690:1 | 654:6 656:13 | 727:6,14 728:10 | 945:14 946:4,14 |
| 824:4 828:22,22 | cataloging 632:10 | 706:16 726:10 | 728:16 729:5,17 | 946:22 947:4,8,13 |
| 830:13,15,18 | categories 638:4 | 842:13 855:2 | 730:19 732:5,18 | 947:17,21 948:8 |
| 831:20 832:1,6 | 834:4 | 923:5 1005:21 | 733:1,4,15,19 | 948:12,17 950:2 |
| 833:1,6,11 840:2 | category 849:22 | certainty 790:21 | 734:3 744:20 | 951:3,4,11,13 |
| 853:13,16,20 | 858:9 972:12 | 791:2 | 745:9,15,18,21 | 961:7,8 965:22 |
| 875:9,11 878:14 | cattle 969:12 | cetera 706:15 | 746:3 747:1,18 | 966:2,2 974:4 |
| 882:8 885:6 | caught 645:4 | 760:14,14 766:5 | 748:3,7 749:8 | 980:2 984:3,8,14 |
| 895:13,14 898:3 | 800:19,22 801:2 | 767:3 805:12 | 750:1,15 752:19 | 984:22 985:4,6 |
| 898:12,15 900:7 | causation 793:21 | 806:2 810:3 931:8 | 754:3,7,11 770:8 | 986:9,13,16,20 |
| 900:10,19 911:12 | 922:22 | 937:1 972:8 | 770:11,11 778:16 | 987:2 988:1,8 |
| 919:14,16,18 | cause 690:14,16 | 1000:13 1001:14 | 778:18 794:16 | 989:11,14,16,20 |
| 950:15,17 951:1 | 740:12 785:17,20 | Chad 597:10 | 796:18,20 799:7,8 | 990:1,18 991:19 |
| 961:21 962:1,2 | 785:21 829:7 | 612:18 | 799:14,15 800:10 | 992:16 993:19,22 |
| 964:14 968:9 | 830:22 904:16 | chain 710:1 824:16 | 800:12 801:4,7 | 994:4,11 995:3,10 |
| 973:6 976:12,14 | 906:10 917:3,15 | 824:20 831:22 | 802:22 804:1,5,13 | 995:13,17 996:4 |
| 976:15,18,20,21 | 917:18,18 918:8 | 832:21 834:1 | 804:22 805:4,7,10 | 996:16 997:4,11 |
| 977:2,4 983:12 | 919:11 920:17 | 845:4 874:9 875:7 | 805:20 806:9,15 | 997:14 998:8 |
| 985:17 986:3,4,22 | 921:6 922:16 | 875:21 882:4,11 | 807:1,2,7 814:10 | 999:1,19 1000:21 |
| 987:5,7 989:7 | 924:20 971:6 | 887:16 888:16,20 | 814:12,13 825:17 | 1000:22 1004:1 |
| 993:21 994:9,12 | caused 608:14 | 911:13 913:7 | 840:21 842:12 | 1004:20 1005:7 |
| 997:9 1000:12 | 615:6 684:14 | chains 876:22 | 843:7,9 844:12 | 1005:21 1007:17 |
| carte 975:6 977:11 | 690:10 703:19 | 881:19 887:13 | 846:11,19,21 | chairs 964:20 |
| case 604:21 606:17 | 797:21 799:22 | Chair 693:8,10 | 848:11,13 849:8 | challenge 668:2 |
| 620:9,10,22,22 | 808:15 810:7 | 951:14 | 849:10,21 850:8 | 692:16 736:1 |
| 632:21 635:8 | 830:21 850:1,5 | Chairman 601:2 | 850:15,19 851:1,5 | 779:2 780:16 |
| 636:3,4 642:8 | 902:17 928:22 | 611:13 623:11,12 | 851:8,11,17,21 | 825:1 879:20 |
| 646:2 647:18 | 977:8 | 623:13 632:3,19 | 852:5,10,16 | challenged 776:1 |
| 653:12 657:7 | causes 628:18 655:7 | 633:4,12,21 634:6 | 853:12 854:10,18 | challenges 650:5 |
| | <u> </u> | | | <u> </u> |

| | | | | Page 1015 |
|---------------------------|-------------------|-----------------------|-----------------------------|---------------------------|
| 555 12 000 14 15 | | (22.20.622.1.10 | 1 1 020 17 | (22.10.624.1 |
| 777:13 809:14,17 | charge 605:9,18 | 622:20 623:1,10 | checks 928:17 | 623:18 624:1 |
| 809:22 831:3 | 606:1,3,5,13,14 | 626:15 628:2,22 | chemical 603:7 | 625:11 |
| 875:21 | 609:6,19 613:22 | 643:8,13 653:18 | 876:14 | claim 679:14 794:2 |
| challenging 692:2 | 614:1,7 615:2,22 | 655:11 673:12 | chemicals 755:19 | 928:1 |
| 692:10 877:19 | 616:22 617:6,18 | 678:12,15 680:6 | 771:3 966:14 | claims 611:3 955:12 |
| champions 968:6 | 621:19 623:4 | 682:3,5 683:6 | Chemistry 597:3 | clarification 677:8 |
| chance 795:11 | 628:7 635:21 | 687:21 688:9,10 | 602:15 | 801:10 890:8 |
| 864:8 | 645:9 650:21 | 689:5 690:17,21 | chest 983:2 | clarify 708:5 |
| change 618:1 633:3 | 652:15 657:3,11 | 690:22 691:9 | Chicago 611:18 | 740:18 783:19,21 |
| 661:7 673:8,18 | 660:21 663:5 | 695:6 696:5,11,13 | 740:21 831:6 | 797:11 |
| 675:7,9 678:19 | 678:12 680:10 | 696:18 697:9 | 845:8,9,17,18 | clarifying 801:8 |
| 687:12 707:3 | 681:16,18,22 | 698:6 702:6,16 | 890:10,18 891:11 | 836:10 |
| 712:16 716:20,21 | 682:20,22 683:11 | 704:2 722:9 732:9 | Chief 597:14 | clarity 732:4 |
| 759:1 791:20 | 683:13 689:1 | 732:19 734:6 | 598:11 623:18 | 863:18 887:4 |
| 836:5 853:7 | 702:9 732:6 | 735:7,11 736:7 | 624:5 | class 608:2 623:4 |
| 862:21 863:2,20 | 748:21 765:8 | 738:8 742:7 | chime 652:2 | 650:10 671:5 |
| 863:21 864:16 | 769:8 777:19 | 754:21 760:12 | choice 717:3 | 689:4 721:15 |
| 866:17 868:2 | 785:4 792:4,16 | 768:3 771:17 | choices 934:20,21 | 846:6 939:12 |
| 901:11 903:20 | 799:14 805:17 | 773:11 775:8,13 | chokepoint 615:15 | 954:2 961:2 962:4 |
| 904:12 905:5,11 | 821:6 823:22 | 775:22 776:6 | choose 642:22 | 998:13 |
| 907:17 909:5 | 837:17,18 838:13 | 777:16 778:5,14 | 645:8 722:20 | clauses 775:3 792:1 |
| 943:4 963:15 | 840:9,11 848:17 | 781:4 793:5 | 732:6 737:13 | clay 598:15 690:4 |
| 973:22 991:15 | 857:1,20 860:18 | 799:22 808:16 | 834:11 | 770:10 783:5,8,14 |
| changed 607:20 | 861:7,13,21 863:1 | 809:6,12 810:11 | choosing 646:1 | 783:19,22 784:4,9 |
| 661:3 720:20 | 863:5,18 865:19 | 812:4,20 816:6 | 984:9 | 784:11,14,17 |
| 845:2 849:3 858:6 | 866:2,8,17 867:2 | 818:10,22 820:15 | chose 791:17 | 785:16 790:3,5 |
| 869:9 897:8 | 867:6,11 869:3 | 821:20 822:18,19 | 912:13 | 791:7,10,13,18 |
| 900:14 | 889:16 890:15 | 823:6,8,8 824:9 | chosen 658:1 | 792:1,17,22 794:7 |
| changeover 710:4 | 908:18 909:3,11 | 832:7,9,12 834:3 | 950:14 | 796:13,19 797:2 |
| changes 602:20 | 909:19 910:17 | 834:3,4,16,20 | chunks 741:1 | 798:21 799:2,6,13 |
| 603:12,13 605:13 | 911:8,10,16,21 | 835:1,5,8,17 | churned 925:6 | 799:16 1001:19 |
| 608:2,19 609:1,5 | 912:15 913:11,14 | 837:6,7,15,21 | churning 649:13 | clear 608:4 609:4 |
| 610:8 613:21 | 915:12 916:2,8 | 838:1,14 840:20 | Cincinnati 766:3 | 611:5 632:5 676:5 |
| 616:17 618:8 | 918:9 932:14 | 853:8 862:18 | circles 718:4 920:13 | 692:3,19 703:13 |
| 620:14 625:18 | 933:3 937:13 | 864:10,20 865:4 | Circuit 795:21 | 707:19 734:14 |
| 632:12,15,22 | 944:5 957:7 958:1 | 877:13 886:10,15 | 798:17 | 741:5,16 792:4 |
| 633:2,17,18 | 958:2 977:11 | 899:6 905:3 917:1 | circumstance 637:5 | 802:19 809:6,9 |
| 636:18 673:11 | 999:3 | 917:6,10 919:5 | 880:1 919:19 | 829:10 841:16 |
| 678:14 683:14 | charged 617:14 | 936:17 949:4 | 934:21 | 879:7 885:12 |
| 685:3 686:11 | 652:7 653:7 734:8 | 952:2,20 953:17 | circumstances | 933:5 935:20 |
| 702:15 703:16,18 | 769:7 797:19 | 956:14,18 958:14 | 604:14,20 606:20 | 936:5 939:6 |
| 726:6 729:6 | 843:16 916:14 | 959:4,8 960:14,15 | 621:3 636:21 | 958:18 959:6 |
| 730:15 732:12 | 955:9 957:4,22 | 961:2 966:6 | 640:13 647:19 | 998:11 999:4 |
| 751:13 762:5 | 958:6 | 968:11 975:1,9,10 | 656:10 836:21 | clearer 800:13 |
| 824:14 829:5 | charges 596:3 | 977:9,19 978:9,12 | 840:8 841:19 | clearly 661:4 |
| 835:19,22 843:13 | 601:4 603:14 | 978:17 984:12 | 850:5 861:3 | 664:16 835:17 |
| 886:17 901:18,19 | 604:20 605:6 | charging 752:8 | 876:19 877:10 | 836:5 |
| 901:19,20 904:19 | 606:7,10 607:5,13 | 773:7 793:4 796:5 | 911:10 912:6 | client 790:9 957:16 |
| 954:1 964:1 | 608:9,13,21 609:9 | 832:18 859:7 | 918:18 919:7 | climb 967:13 |
| 1006:9 | 609:13,18,20 | 866:10 907:1 | 920:3,4 956:15 | clock 648:20 652:11 |
| changing 672:12 | 610:6,22 611:5 | 914:18 943:4 | 963:15 | 652:12 763:13 |
| Channahon 612:2 | 613:20 614:19,21 | charts 1002:22 | cite 663:4 | 765:4 892:7 893:3 |
| channel 817:21 | 614:22 615:18 | cheaper 883:15 | cited 777:18 | 894:12,16,17,22 |
| 819:4 | 616:2,3,4,18,19 | 986:7 987:4,17 | cites 620:9 | 895:18,20 899:15 |
| channels 818:13 | 618:3,12,13 | check 711:4 766:9 | citing 777:17 | 925:7,8 938:20 |
| 824:12 | 619:11 621:12,14 | 766:11,12,16 | City 597:12 602:10 | 939:1 995:6 |
| | [| | | |
| | | | | |

| clocks 687:17 765:5 | 961:22 962:2,3,11 | 787:10 790:14 | 980:7 1003:10,12 | 858:1,3,11,14 |
|-------------------------------|-----------------------------|-----------------------|-------------------------|-------------------|
| close 602:3 631:12 | 962:14,17,18 | 798:6 838:10 | 1006:1 | 859:10,14 860:13 |
| 712:21 713:2 | 963:12,21 964:14 | 860:10 861:10 | commerce 771:10 | 861:10 863:3,8,10 |
| 782:18 901:9 | 965:16 974:17,17 | 869:2 875:14 | commercial 600:10 | 889:12 890:5,17 |
| 904:6 984:7 | 976:13,16,17,21 | 879:15,18 883:17 | 603:18 607:1 | 890:21 891:2,12 |
| 1001:1 | 993:16 994:2,9 | 887:8 894:4,10 | 765:14 813:5,22 | 891:15 892:2,16 |
| closed 697:5 | 997:13,18 998:4 | 897:14 910:5 | 833:5,20 925:19 | 895:12,19 896:13 |
| closes 797:7 | coast 695:17,17 | 916:22 919:14 | commercially 703:1 | 896:18,21 897:4 |
| closes 797.7 closing 824:8 | 701:18 | 924:5 945:1 | 833:18 925:22 | 897:10,13 898:2,5 |
| 1003:12 | cold 671:11 672:6 | | 937:7 | |
| closures 830:22 | 828:1 831:5 | 969:18 973:1 | Commission 596:7 | 898:8,13 899:7,13 |
| | | 981:9,14,15,20 | | 899:18,22 900:4,8 |
| clumping 690:1 | colder 831:6 | 984:17 986:6 | Commissioner | 900:16,21 901:2 |
| CN 691:8 734:6,15 | collaborating | 994:6 995:16 | 623:13 641:1,18 | 901:15 902:1,6,10 |
| 734:17 735:3 | 628:16 | 996:1 1000:12 | 641:21 642:3,7,13 | 902:17 903:2,6,14 |
| 736:7,8 737:2,8 | collaboration 628:9 | comes 631:5 634:9 | 643:4,11 644:12 | 903:18 904:20 |
| 739:5,11 783:21 | collaborative | 660:9 669:7 | 645:3 646:12 | 905:12,18 906:4 |
| 793:10,13 794:4 | 650:18 | 675:17 719:11 | 647:4 648:4,10 | 906:17,22 907:6 |
| 825:20 826:2 | collaboratively | 730:17 746:14 | 649:11,17 650:7 | 907:10,15,22 |
| 827:2,6,10,18 | 627:16 630:1 | 772:7 782:4 | 650:19 651:2 | 908:4,14,22 |
| 828:3,10,11,14,16 | 631:20 646:10 | 787:16 794:8 | 662:15 663:12 | 909:16 910:2,13 |
| 829:15,17,19,22 | 818:9 | 813:17 870:8,8 | 665:11 666:1,18 | 910:21 911:3,6,14 |
| 830:6,11,19 | colleagues 602:8 | 899:8,10 972:5 | 666:21 667:2,9,13 | 911:20 912:8,20 |
| 831:12,15 832:4,6 | 754:17 794:20 | 983:1 992:22,22 | 667:15 675:14,20 | 913:8,15,18 914:7 |
| 832:16,20 833:8 | 795:17 869:12 | comfort 841:13 | 676:1 677:7 | 914:17 915:10,18 |
| 833:13 834:5,7,14 | 1001:10 1003:12 | comfortable 645:5 | 708:17 709:6,10 | 915:21 916:1,7,16 |
| 834:20 835:3,6,14 | collect 808:9 860:17 | 645:7 841:6 | 710:7,21 711:16 | 917:11 918:2 |
| 835:16 836:7,9,13 | 860:21 874:3,8 | 901:17 904:18 | 711:21 712:6,11 | 919:9,22 920:11 |
| 837:4,8,9,10 | 877:13 901:18,21 | 921:14,21,22 | 712:15 713:4,10 | 921:1,4,11,19 |
| 838:6,11,15,17,18 | 992:8,13 | 938:12 | 713:13,19 714:1 | 922:2,8,13 923:3 |
| 838:20,22 839:10 | collected 822:2 | coming 632:7 | 714:11,20 715:1 | 923:22 924:17 |
| 839:13,17,22,22 | 917:19 | 675:19 677:3 | 715:14 716:12,20 | 925:3 926:13 |
| 840:2,7,10,14 | collecting 833:1 | 696:15 697:11 | 716:22 717:5 | 927:7,15 928:15 |
| 844:15 849:11,19 | 859:19 904:5 | 731:5 768:19 | 718:6,12 734:4,10 | 929:2,13 930:12 |
| 856:17 857:8 | 992:11 | 787:1 788:17 | 734:14,20,22 | 932:6,12,18 933:2 |
| 888:5,17 889:2,15 | collection 646:22 | 789:13 844:7 | 735:10,22 736:6 | 965:1 979:3,15,18 |
| 898:9,10 908:4 | 822:1,4,7 917:6 | 882:8 896:5 | 736:22 737:4,7,15 | 980:4,10,13,18,21 |
| 911:10 912:14 | 926:6 | 950:15 980:9 | 737:20 738:2,10 | 981:3,6,18 982:1 |
| 914:8 917:22,22 | collections 815:1 | commend 689:2 | 738:16 739:4,21 | 982:11 983:10 |
| 918:16 920:21 | 821:5 | 731:4 978:15 | 740:4,8,17 741:4 | 984:2 987:3,8,11 |
| CN's 736:22 783:13 | collective 885:6 | 1007:4 | 741:7,12 742:2,13 | 987:20 991:21 |
| 783:16 826:4,6,14 | collectively 695:22 | comment 653:21 | 742:18,21 743:7 | 992:12 1003:14 |
| 826:15,17,18 | college 762:20 | 678:3 704:20 | 743:13,19,21 | 1005:4,8 1007:16 |
| 827:1,4,8 828:6 | color 676:18 | 707:12,13 798:8 | 744:11,18 783:2,6 | Commissioners |
| 828:12 832:18 | Colorado 951:16 | 799:10 841:2 | 783:12,15,20 | 967:9 |
| 833:2,3,3,5,6 | 957:5 | 847:2 869:6 | 784:1,6,10,12,15 | COMMISSONER |
| 834:15,19 835:7,9 | Columbia 845:6 | 887:10 910:8 | 785:1,7,10,15 | 646:18 714:7 |
| 835:11,13,15 | combination 666:4 | commented 660:19 | 786:9 788:2 789:2 | 786:22 |
| 836:1,2,16 837:14 | come 603:10 636:6 | 780:8 | 789:19 791:5,8,11 | commit 686:20 |
| 838:3,4,15 839:3 | 646:19 647:10 | comments 602:4 | 791:14,19 792:13 | 703:10 838:16 |
| 839:16,19 840:11 | 655:14 662:5 | 603:15 623:7 | 792:19 793:9,18 | commitment |
| 840:16 909:21 | 663:18 678:4 | 652:3 653:4 704:3 | 794:13 796:22 | 602:19 659:9 |
| 919:15,18 949:11 | 700:11 717:17 | 774:15 797:15 | 798:12,22 799:3 | 683:17 721:13 |
| CNW 611:20 | 731:21 744:14 | 799:17 807:11,14 | 801:9 802:2,7,10 | 839:11 961:12 |
| coal 600:3,6 951:8 | 746:11 750:5,14 | 808:3 814:18 | 802:14,18 814:13 | 964:12 995:8 |
| 951:17 952:6,9,15 | 753:21 761:15,21 | 815:3 844:14 | 843:2 845:13 | 998:7 |
| 955:2 961:10,16 | 774:20 778:1 | 931:11 978:22 | 849:5 857:5,11,16 | commits 818:15 |
| , | | | ĺ | |
| | | | | |

| 838:6 | compared 880.2 | complexity 910-17 | 823:1 839:16 | 606:5 609:6,19 |
|--------------------------|--------------------------|--|----------------------------------|-----------------------------------|
| committed 619:12 | compared 880:2 890:3 | complexity 810:17 compliance 605:12 | 840:19 889:7 | 613:22 614:11,21 |
| | | | | |
| 628:22 672:10 679:6 | comparing 822:2 | 605:14 968:8 | 952:1 979:8,14 concise 935:20 | 615:5,6,10 616:2 |
| | compassionate 795:12 | 969:2,16 978:4 | | 616:4 699:18 732:6 749:5 761:3 |
| Committee 754:18 | ,,,,,, | 988:9,13 989:3 | 939:7 998:11 | |
| 951:20 | compensate 621:13 | 993:7 996:8 997:5 | 999:4 | 764:6,7 765:1 |
| commodities | 849:20 949:3 | complicated 637:14 | conclude 601:20 | 829:7,7,9 830:17 |
| 612:22 771:2 | 977:7 | 639:22 762:3 | 603:20 670:1 | 832:2 862:12 |
| 825:8 828:10 | compensated | 771:11 790:22 | 916:15 | 964:9 |
| 875:1,5 876:22 | 621:11 659:16 | complication 640:1 | concluded 682:2 | congests 614:4 |
| 881:20 953:10 | 858:19 960:5 | compliment 770:16 | conclusion 662:6 | Congress 620:18 |
| 955:14,20 | compensates | comply 607:21 | 744:14 813:19 | 679:20 815:20 |
| commodity 670:11 | 609:15 621:20 | 608:18 609:21 | 835:6 840:14 | 823:21 909:10,18 |
| 881:7 962:3 | compensating | 672:19 873:9 | 909:12 | 909:22 913:6 |
| commodity- 613:4 | 863:6 | 880:3 | conclusions 823:15 | Congressional |
| commodity-depe | compensation | complying 873:12 | concrete 759:7,8 | 914:21 |
| 874:22 | 641:12 642:9 | 880:1 | concur 779:18 | connection 980:18 |
| common 658:19 | 660:14 772:1 | component 690:7 | Concurrently 616:9 | connections 771:8 |
| 696:21 716:16 | 774:8 858:4,15 | 848:5 859:21 | condition 851:16 | connects 671:5 |
| 721:1 813:17,20 | 861:15 863:5 | 922:22 940:3,4 | conditions 671:19 | consequence 774:6 |
| 814:3 945:5,7 | 889:17 891:5 | 961:17 976:2 | 710:3 780:14 | 778:7 796:15 |
| communicate 630:4 | compensatory | 977:20 | 827:22 831:4 | 992:22 |
| 631:6 809:20 | 660:4,9 | comprise 672:1 | 908:18 | consequences |
| 1000:17 | competent 707:7 | compromise 744:16 | conduct 620:22 | 625:22 692:13,21 |
| communicated | competition 607:4 | compute 618:12 | 680:1 846:22 | 772:18 779:20 |
| 835:19 | 963:13 978:19 | 911:19,20 912:1 | conducted 828:7 | 954:14 976:4 |
| communicates | competitive 607:3 | 914:9 | conductor 874:12 | consider 602:5 |
| 625:2 | 674:8,11 807:19 | computed 917:7 | conducts 820:5 | 637:6 654:6 703:9 |
| communicating | 813:11 823:18 | 919:5 | conference 964:15 | 719:18 731:17,21 |
| 632:22 805:14 | compiling 817:17 | computer 648:21 | confidence 841:14 | 735:3 739:18 |
| 822:10 | complain 857:8 | 649:12,14 925:7,9 | 973:9 | 767:16 811:18,19 |
| communication | 929:16 | concede 682:18 | confident 672:22 | 882:16 884:10 |
| 706:17 805:15 | complainant 917:5 | concentrate 705:1 | 679:11 | 886:6 923:12 |
| 819:14,19 820:3 | complained 1006:6 | concentrated 627:1 | confidential 733:19 | 926:1 927:17 |
| communications | complaining 857:12 | concept 607:1 | 733:22 | 960:22 973:14 |
| 684:2 705:22 | 981:16 | 653:6 786:12 | confidentiality | 978:1 1004:3 |
| 809:2 | complaint 855:4 | 844:17 911:15 | 792:7 | 1007:11 |
| communities 835:4 | 879:21 914:4,7,10 | 917:18 922:16 | configuration | considerable 776:8 |
| community 800:2 | 920:6 | 964:21 993:14 | 672:16 | consideration |
| companies 603:2,17 | complaints 632:7 | concepts 884:8 | configuring 832:13 | 615:16 647:20 |
| 605:18 624:3 | 731:2 754:21 | conceptual 710:17 | confirm 656:22 | 685:9 686:17 |
| 664:17 708:20 | 755:1 905:3 | conceptualize 867:3 | 732:17 811:22 | 771:14 884:13 |
| 711:11,11 769:8 | 979:10 | concern 603:2,22 | 816:20 | 939:20 |
| 770:20 804:16 | complete 839:17 | 605:1,17 685:13 | conflicts 629:14 | considered 613:12 |
| 952:11 | 958:13 | 706:11 767:13 | confront 794:12,14 | 635:7 724:7,11 |
| company 597:12 | completed 674:19 | 886:8 887:6 | confronting 794:11 | 810:13 853:2 |
| 599:3,7,11 638:1 | completely 692:13 | 974:22 985:15 | confused 796:11 | 937:3 950:7 |
| 644:11 648:1 | 738:8 884:3 | concerned 603:11 | 800:16 987:3 | considering 687:17 |
| 689:13 693:13 | 922:12 936:10 | 885:12 | confusion 776:13 | 768:1 882:15 |
| 699:6,8 781:7 | 976:13 | concerning 962:7 | 836:8 | 1006:19 |
| 783:9 805:6 | completion 838:7 | concerns 606:13 | congest 815:15 | considers 957:19 |
| 825:22 846:10 | complex 649:3 | 628:4 703:22 | congested 614:15 | consignee 614:8 |
| 952:14 981:10 | 650:16 654:22 | 705:2 797:19 | 614:16 615:2 | 784:21,21,22 |
| 984:4 | 762:3 889:21 | 817:8,14 818:13 | 626:8 719:9 | 793:15 799:2 |
| compare 649:1 | 900:9 942:18 | 818:18 819:2 | 720:10 | 801:2 |
| 756:16 903:7 | 967:5 1003:19 | 820:20,22 822:17 | congestion 605:18 | consignees 772:2 |
| | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| | | | | |

| | | | | Page 1018 |
|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | I | I | 1 | 1 |
| 773:8 774:9 | consume 644:2 | 686:5,6 715:6,13 | 834:19 | 859:1,20 861:17 |
| 778:15 | 949:17 | 761:10,12 768:2 | corner 675:18 | 862:10,12,16 |
| consistency 630:11 | consumer 624:11 | 773:15 785:21 | 676:7 | 863:7,13 868:22 |
| 974:2 | consumers 952:9 | 793:16 799:18,19 | Corporate 599:9 | 869:15,18 873:11 |
| consistent 626:20 | consuming 950:18 | 847:12 972:5 | correct 636:11 | 880:15 882:15,16 |
| 641:3 664:10 | contact 707:10 | 995:19 | 643:3,9 646:15 | 883:20,22 884:7 |
| 685:18 688:18,21 | 949:15 | contracting 997:18 | 653:18 657:15 | 884:11,14,18 |
| 695:7 808:15 | contacted 980:16 | contracts 686:4 | 660:16 663:11 | 885:15,20 886:17 |
| 813:8 824:18 | contain 810:1 | 773:17 775:4 | 669:16 705:14,15 | 890:1,4 891:4 |
| 860:15 877:7 | container 821:17 | 777:10 792:2 | 709:5 712:14 | 915:13 946:1 |
| 905:10 923:16 | 823:11,12 906:13 | 844:8 973:12 | 713:9,12 714:6 | 955:18 956:20 |
| 936:18 972:2 | 906:15,17,19 | 996:19 | 729:4,19,20 735:9 | 960:11 985:10 |
| consistently 614:15 | containers 907:1 | contractual 798:2,5 | 735:18 742:1 | costumer-centric |
| 625:3 664:18 | contains 836:3 | contrary 626:4 | 754:5 796:10 | 874:21 |
| 828:20 | 963:20 | contributed 854:2 | 836:15 840:6 | Council 597:3 |
| consists 889:16,17 | contamination | 877:18 | 848:12 850:6 | 602:15 819:16,20 |
| 961:15 | 613:4 | contributing | 857:15 870:1 | 843:12,17 |
| consolidate 955:13 | Contee 1001:19 | 655:20 | 915:15 929:20 | counsel 598:3 599:5 |
| consolidated | contemplating | contributor 782:7 | correctly 635:6 | 599:16 689:11 |
| 817:21 886:13 | 706:2 | 785:14 | 657:9 669:2 724:6 | 741:6 825:20 |
| constant 774:17 | contemporaneous | control 608:10 | 921:18 | Counsel's 1002:17 |
| 839:4 858:8 | 837:5 | 615:21 653:14,19 | cost 607:21 621:13 | counselor 1007:2 |
| constituencies | contend 729:22 | 656:4 690:19 | 630:21 659:1,15 | count 802:21 |
| 631:6 | content 842:21 | 696:21 740:12 | 659:22 671:19 | counterpart 741:17 |
| constituents 741:2 | contentious 874:7 | 757:8,9,9,11 | 673:21 681:10 | counterparts |
| 741:8 | 875:17 888:11 | 758:22 759:1,3 | 682:11,14 688:8 | 748:12 |
| constitute 620:15 | 889:2 | 779:13 781:19,21 | 700:14 718:1,4,21 | countries 770:22 |
| 633:7 | contest 737:1 958:1 | 782:14 786:14 | 721:5,8 790:19 | country 650:12 |
| constrained 940:11 | contested 736:7 | 788:7 789:3,8 | 791:17 813:14 | 693:18 695:16 |
| constraint 679:14 | 955:11 | 790:6 809:3 | 834:21 858:18 | 735:5 785:3 |
| constraints 789:16 | context 602:5 | 818:19 850:5 | 859:2,5,8,9,16,21 | 970:13 |
| 954:14 | 625:16 642:16 | 872:11 923:19 | 860:6 861:22 | couple 646:22 |
| construct 861:18 | 720:13 722:12 | 956:16 961:19 | 862:2,19,22 864:2 | 701:17 724:22 |
| 879:9 | 881:4 884:16,17 | convenience 728:9 | 864:8 876:11,18 | 740:18 783:2 |
| constructing 956:2 | 922:11 962:6 | 834:14 | 878:21 880:1 | 841:10 843:12 |
| construction | 979:11 | conversation 733:5 | 885:1 886:1 | 846:12 848:9 |
| 674:17 | contexts 881:10 | 748:15 784:18 | 891:10 914:19 | 855:5 858:5 |
| constructive 616:6 | 883:20 884:10 | 786:3,5,11 788:14 | 915:4 945:13 | 889:14 930:13 |
| 617:1,7,22 635:18 | continually 749:19 | 938:7 991:14 | 946:5,6,7,10,13 | 972:16 976:9 |
| 652:22 730:18 | continue 631:19 | 1000:13 | 946:20,21 947:1 | 979:4 994:7 |
| 731:19 732:4 | 695:5 710:11 | conversations | 947:14,14,18,19 | 1001:9 1003:7 |
| 803:5,14,21 804:2 | 812:15 819:10 | 709:15 711:3 | 960:6 963:9 | course 624:15 |
| 804:9,10 806:12 | 845:11 846:5 | 906:2 | 969:19 976:17 | 627:6 639:16 |
| 842:20 868:5 | 851:9 864:10 | conversely 777:7 | 988:3 | 695:18 697:7 |
| 892:22 893:15 | 964:9 982:10 | 782:10 824:4 | cost- 642:11 | 702:2 717:22 |
| 894:11 896:11 | 990:13 | Cooper 1002:18 | cost-effective | 776:7 788:17 |
| 917:8 919:4 | continued 598:1 | cooperation 831:13 | 973:10 | 873:1 878:9 880:8 |
| 988:20,21 989:4 | 599:1 705:12 | cooperative 600:13 | costly 682:3 684:17 | 1002:9,19 |
| 989:12 1006:17 | 849:8 1006:11 | 600:15 974:11,12 | 688:21 | 1003:11 |
| constructively | continues 615:14 | cooperatives | costs 606:15 615:19 | court 860:20 |
| 617:17 811:11 | 617:3 985:16 | 952:12 | 641:17,17 659:10 | Courtoreille 599:14 |
| 892:9 949:11,12 | 998:5 | coordinate 815:12 | 674:8 679:9 681:3 | 827:5,7,9 835:12 |
| Consultant 597:8 | continuing 667:17 | coordinated 970:1 | 681:9 682:14 | 849:14 850:12,17 |
| 597:18 611:15 | continuous 672:22 | Coral 1002:7 | 684:6 687:3 695:9 | 850:21 851:2,6,9 |
| Consulting 597:9 | 754:22 802:4,5 | core 629:10 649:3 | 700:15 703:7 | 851:14 856:17 |
| 597:19 611:16 | contract 613:3 | 807:17 828:16 | 714:5 808:19 | 857:10,15 889:19 |
| | l | l | | |

| | | | | 1490 1017 |
|----------------------------|----------------------------|---------------------------|-------------------|-------------------|
| 890:7,19 891:8,14 | created 702:16 | Creel 815:3 | 640.5 12 19 | 643:22 647:5,17 |
| | 739:14 764:22 | crew 666:16 684:11 | 640:5,13,18 | |
| 898:10,14 899:9 | | | 643:13 647:21 | 648:2 662:5,6 |
| 899:16,20 900:3,6 | 797:8 | 698:2 757:3 | 648:7,22 651:12 | 702:11 815:17 |
| 900:12,18 901:1 | creates 776:18 | 768:18,19 837:5 | 652:18 653:9,13 | 816:16 819:15 |
| 908:10,16 928:16 | 808:17 955:17 | crew's 859:3 957:18 | 655:13 656:11 | 840:3 932:16 |
| 929:5 930:10 | creating 626:2 | crews 626:19 666:8 | 659:15 665:10 | 956:15 |
| 948:14,22 | 649:6 774:7 778:7 | 667:7 684:6,19 | 668:19 671:13 | customer-caused |
| courts 795:21 877:9 | 813:1 960:11 | 748:1 836:19 | 678:13 680:12 | 928:22 |
| 877:9 | credit 616:6,8,9,11 | 862:13 871:10 | 685:18 710:14 | customer-focused |
| cover 791:4 862:19 | 616:14,15 617:12 | 958:4 970:4,4,12 | 721:11 764:20 | 625:4 631:14 |
| 863:12 869:18 | 617:16 622:21 | 971:11 982:2,5,8 | 765:21 766:6,15 | customers 603:3 |
| covered 603:18 | 638:17 640:3,3 | crisis 698:15 | 767:14 780:13 | 607:6,7,21 609:15 |
| 604:5 605:19 | 659:22 668:21 | criteria 609:5 | 790:7 794:8,9,10 | 609:21 613:9 |
| 672:11,13 684:12 | 678:20,21 696:3 | 864:15 865:21 | 794:11,15 796:6 | 615:18,21 619:12 |
| 838:4 1003:15 | 701:17 712:9 | 867:8,14,18 868:2 | 805:6 807:11 | 623:9 624:8 625:6 |
| covering 862:22 | 728:12 751:21 | 870:7 933:22 | 808:21 809:3 | 625:13,13 626:2 |
| 864:2 | 763:10 849:12,16 | 934:1,6 | 810:4,19 811:14 | 626:12,22 627:2,3 |
| CP 691:10 739:11 | 850:3,6,20,22 | critical 645:5 | 813:13 815:9 | 627:10,12 628:13 |
| 740:5 814:19 | 851:9 852:20,21 | 688:18 771:1 | 816:19,21 817:6 | 628:17,20,22 |
| 815:2 816:3,12,17 | 853:22 854:2,5 | 824:19 844:21 | 817:15 818:3,5,14 | 629:6,14,17,21 |
| 816:18 817:13 | 867:5 885:19 | 845:20 | 819:16,20 820:1,6 | 630:1 631:7,17,20 |
| 818:1,15,16,17,18 | 892:12 893:11 | critically 607:1 | 820:6,7,9,22 | 632:18 633:1,14 |
| 818:20 819:1,7,10 | 894:6 897:21 | 778:11 | 828:14 831:17 | 633:22 634:13,14 |
| 819:20 820:5,12 | 898:1,11 900:14 | criticism 889:6 | 833:8,12,14 | 640:16 642:18,18 |
| 821:10 822:9,15 | 900:17,17 938:19 | crop 672:7 | 835:15 836:8 | 642:22 643:6 |
| 822:18 823:14 | 962:14 989:6 | cross 650:12 856:22 | 838:13,20 840:5 | 644:1,10,13,22 |
| 824:2,5,6,8,13,22 | 990:3,4,18,21 | crossing 969:7 | 843:11,17 846:13 | 645:2,8 646:1 |
| 825:2,5,14 837:2 | 991:5,8 993:4,5 | crude 771:2 966:15 | 847:12 853:2 | 650:21 654:5 |
| 843:22 845:21 | 998:17 | Crystal 1002:7 | 856:1 857:1,8 | 659:4 662:2,9 |
| 848:18 851:18,20 | credit's 854:4 | CSR's 766:7 | 861:7 862:1,13 | 666:14 668:8 |
| 853:5 857:7,17 | credit/debit 993:17 | CSX 612:7 671:6 | 868:13 871:20 | 680:16 683:17 |
| 870:11 872:4 | crediting 636:10 | CTA 691:20 736:1 | 874:4 875:8 876:1 | 685:9,17 686:18 |
| 890:2 893:15,22 | credits 604:13,15 | 736:1 | 877:14 881:4 | 686:20 687:1 |
| 895:5 896:3 906:7 | 604:17 605:1,3,5 | culprit 782:4 | 882:15,16 884:14 | 688:9 695:12 |
| 910:16 928:8,16 | 606:4 609:10 | curious 646:21 | 884:18 885:6 | 702:17 703:4,12 |
| 932:7,20 | 617:8,15 635:22 | 647:5 651:9 661:1 | 889:22 898:18 | 703:17 707:13 |
| CP'd 899:3 | 636:2,7 638:20 | 661:12 732:11 | 899:15 912:4 | 719:5,7 720:11,19 |
| CP's 710:4,5 815:3 | 640:6 655:10 | 796:4 842:10 | 915:19 918:1,15 | 721:14 754:19 |
| 816:8,11,13 817:1 | 668:7,8,9 669:3,7 | 846:14 | 918:22 919:10,13 | 759:20,20 761:17 |
| 817:6,15,18 | 669:13,15,17 | current 666:20 | 919:16,20 920:6 | 761:20 762:11,17 |
| 818:14 819:13 | 673:14 680:13 | 673:19 687:11 | 920:10,18,19 | 762:17 766:2,8,15 |
| 820:16 821:7,16 | 681:6 688:1,4 | 809:13 826:21 | 921:6 925:10 | 773:14,17,17,22 |
| 822:1,5,17 823:1 | 776:11,14,17,19 | 861:2 971:17 | 926:7,20,22 | 774:2 777:15 |
| 823:7,12,19 825:3 | 776:21 777:4 | 974:18 | 927:12 930:3 | 788:5,6,6,9,17 |
| 846:13 889:20 | 782:21 849:11,15 | currently 614:12 | 931:2,3 933:1 | 789:4,10,11,15,20 |
| CPC 597:7 602:11 | 849:17,20 851:2 | 619:16 703:12 | 939:7 941:18 | 790:4 792:20 |
| 611:22 612:21 | 851:12,19 852:2 | 892:3 951:17 | 942:8,12 949:2 | 797:18 807:16,19 |
| 614:14 623:7 | 852:12 853:8 | curve 866:9,10 | 950:14 951:9 | 808:9,13 809:18 |
| crack 923:6 | 854:10,14 862:14 | customer 599:9 | 952:7 967:19 | 810:9 812:9,22 |
| Craig 1002:18 | 892:14 893:14 | 600:12,16 613:14 | 969:19 971:2 | 813:8,10,21 814:2 |
| crazy 865:22 866:1 | 900:14,18 917:22 | 617:19 618:3 | 973:15 974:14 | 814:19,20,21 |
| create 626:14 | 926:22 959:15 | 622:14 624:5,6,9 | 983:15 990:13 | 815:9 816:1,9,11 |
| 630:12 636:15 | 960:4,6 990:20 | 625:11 629:19 | 991:11 | 817:13,15 818:12 |
| 756:7 768:8 | 993:12,13,15 | 630:10 631:11 | customer's 609:16 | 818:19 819:9,12 |
| 803:12 863:2 | 994:16 999:9,10 | 635:16,19 636:9 | 619:7,19 629:21 | 819:14,18,22 |
| 990:9 1000:19 | 999:12 | 637:8 638:15 | 634:3 635:1 | 820:4,10,12,20 |
| | | | | ,,, |
| | | | | |

| 822:10,13,16 | Cynthia 1002:3 | 894:5 898:11 | deadlines 611:6 | decision- 809:3 |
|---------------------|-----------------------|--------------------|---------------------------|----------------------------|
| 823:2,3,5,10 | | 899:4 950:1,1 | 633:21 691:15 | decisions 655:2 |
| 824:17 826:11,12 | D | 959:21 969:7 | 838:12 854:19 | 705:4 706:8 716:5 |
| 828:5 831:12,15 | D 601:1 | 970:5,9,9 974:12 | deal 644:7 705:10 | 716:9 721:20 |
| 832:7,10,11,16,20 | D.C 596:9 | 989:17 994:13,16 | 736:2 750:21 | 759:9 811:15 |
| 833:6,10,16,19,22 | daily 816:22 863:4 | day's 701:17 899:1 | 752:14 770:3 | 832:12 833:20 |
| 834:5,11,13,17,20 | 875:22 | day-to-day 808:21 | 781:10 788:9 | 844:4 853:10 |
| 835:7,9,20 837:3 | Dakota 671:16 | day/week 883:2 | 824:10 839:6 | 883:22 923:11 |
| 837:7,13,16,22 | 707:19 | days 602:1,3 610:2 | 875:21 912:10 | 935:7 936:19 |
| 838:6,22 839:7,12 | damage 611:2 | 616:6,8,9,11,15 | 936:22 937:18 | 971:4 |
| 839:14,20 840:1 | dangerous 835:1 | 617:12,13,16 | 977:5 | decrease 712:9 |
| 840:11,15,18 | dangers 935:12 | 622:22 633:2 | dealing 614:11 | 822:8 832:12 |
| 841:3,4,20 842:3 | darker 676:18 | 635:11,12 655:9 | 637:21,22 638:2,2 | decreased 822:6 |
| 842:3 844:4,7,18 | data 664:8 740:1 | 659:22 668:21 | 893:7 924:9 | decreasing 867:9 |
| 844:22 846:3 | 756:9,10,16 759:7 | 669:5 673:14 | deals 789:8 | dedicated 613:3 |
| 847:3,22 853:9 | 759:8,10,11,11 | 678:20,21 684:19 | dealt 641:7 726:13 | 672:9,11 812:7 |
| 854:13,16 862:4 | 792:6,8,14,18 | 696:3,14 697:17 | 785:22 | 818:1 828:3 |
| 862:15 863:1 | 793:1 809:5 | 697:17,17,19,20 | Dearden 597:8,18 | deem 668:18 |
| 864:3 866:5 | 820:19 824:6 | 712:9 727:17 | 611:14,14 652:9 | 822:19 |
| 868:16 870:16 | 839:9 868:12 | 728:12 729:21 | 652:13,17 657:5 | deeper 929:9 |
| 871:3,15,19,21 | 902:21 926:6 | 742:4,10,13,14 | 658:12,18 659:1,8 | deer 970:14 |
| 872:21 873:1,3,16 | 1000:8,8 | 743:4 746:10 | 659:14,19 661:14 | default 669:12,13 |
| 875:1 876:20 | datapoints 637:10 | 749:4 751:21 | 663:11 666:3,20 | defer 654:20 |
| 878:8,10 881:18 | dataset 811:4 | 755:3 760:6,9 | 667:1,4,10,14 | 1003:21 |
| 882:20 883:6 | date 649:7 732:12 | 761:5 776:11 | 670:8 678:10 | deficiencies 691:4 |
| 886:3,11 888:6 | 756:14,15 759:5 | 787:4,5 788:16 | 708:10,15 716:14 | define 637:5 755:16 |
| 899:21 900:5 | 803:1 804:16 | 801:11 802:9,11 | 716:21 719:15,17 | 864:5 |
| 902:2 903:15,19 | 917:7 930:16 | 802:12 806:5 | 720:20 721:7 | defined 621:19 |
| 904:12 911:11 | dated 688:17 | 810:16 817:14 | debate 714:7 | 622:4 632:16 |
| 913:3 914:15 | daughter 762:1,19 | 818:16 832:15 | Debated 647:9 | 939:12 965:12 |
| 915:2,7 916:5 | Davis 1002:4,5 | 838:7,8,9,15,16 | debit 853:1 991:1,3 | defining 637:8,9 |
| 918:17 920:21 | day 601:3,9,10 | 838:18 841:2 | debits 687:13,16 | 663:5 |
| 926:9,21 929:7,9 | 614:1 616:14 | 846:9 855:5,11,11 | 994:13,17 | definition 615:1 |
| 929:15 932:21 | 617:8 619:5 661:5 | 856:10,15 857:4,8 | decade 875:3 | 663:7,8 719:19 |
| 936:8 944:15 | 661:6 668:7 | 875:10 877:4 | decades 679:4 | 898:15 |
| 945:1 946:8,9 | 673:14 678:21 | 881:21 883:10 | decide 705:6 716:2 | definitions 622:13 |
| 949:7,8,12 950:9 | 679:2 682:2 687:6 | 888:22 889:7 | 716:7 776:16 | 719:22 965:11 |
| 950:22 954:20 | 687:13,15 697:19 | 893:21 894:9 | decided 661:18 | definitive 801:18 |
| 955:2,15,19 | 702:2 712:13 | 899:14 900:15 | 674:1 686:9 | defray 859:20 |
| 958:20 967:2 | 713:22 714:3 | 929:15 940:15,16 | 706:14 882:2 | degrade 833:21 |
| 973:9 978:8 | 715:21,21 720:1 | 954:19 963:4,19 | 916:8 955:12 | degree 896:14 |
| 991:12 1000:6 | 728:2 742:6 | 964:18 968:6 | decides 648:22 | 927:18 |
| 1007:12 | 747:15 748:15 | 977:3,4 981:8 | 716:3 777:7 | DeHaan 598:11 |
| cut 666:5 667:17 | 749:7 750:11 | 994:8 998:3,4,5,6 | decipher 792:11 | 754:13 786:17 |
| 677:9 709:14 | 760:11,14 761:5 | 1003:8 | decision 653:12 | 787:3 788:13 |
| cut-off 852:9,11 | 765:8 769:4 | days' 608:21 | 655:22 662:4 | 789:9 790:4 |
| cuts 792:22 793:8 | 771:12 776:14 | DC 969:20 | 673:2 674:3 679:8 | 793:14 794:8,14 |
| cutting 869:21 | 787:7,10 788:15 | de- 861:17 | 682:7,9 706:19,20 | 800:22 801:5,12 |
| cycle 746:16 750:19 | 788:21 790:8 | dead 681:16,18 | 706:22 710:6 | 802:5,9,12,15,20 |
| 826:19 828:17 | 795:14 810:15 | 682:3,5,15,18 | 711:13 715:18 | 803:18 804:3,12 |
| 829:12 830:14 | 838:7 846:1,8 | 688:8,10 714:10 | 717:6 733:16 | 804:20 805:1,5,8 |
| 832:1 954:21 | 852:6,6,17 854:9 | 985:1 | 771:22 781:14 | 805:11,21 806:11 |
| 994:22 995:21 | 854:21 855:3 | deadline 602:6 | 794:17 795:19 | delay 837:8 850:11 |
| 996:14,20 997:2,5 | 858:20 861:21 | 633:22 634:2,20 | 796:2 800:18,20 | 917:3,15 918:9 |
| 997:15,22 | 866:3 872:8 875:9 | 790:10 855:8 | 801:1 875:15,16 | 919:11 921:6 |
| cycling 746:16 | 877:17 893:22 | 959:6,7,20 960:9 | 884:1 955:11 | 924:21 942:19,22 |
| | • | • | • | • |

| 977:6 989:5 627:1,4,11,18 810:11 811:5 966:5 967:11 834:12 delayed 615:13 628:2,7,18,22 812:4,9,19 813:16 968:10 972:6,11 designed 63 685:1 692:20 629:3,20,22 814:1,6 815:4,20 973:6 975:1 976:1 675:6 710 859:1 958:4 641:10 642:8,17 816:5,7 817:2,4 977:19 984:5,20 719:2 834 delays 608:13 692:5 642:18 643:2,8,13 817:14,16,21 984:21 985:17 837:15 808:14 830:17 643:16 644:4,8 818:9,21 819:3 986:5,7 987:5,13 desire 625:3 808:19 697:17 645:2,9,12,15 820:15 821:2,6,17 987:16 988:3,4 964:5 680:9 681:7 697:6 648:14 654:13 821:20 822:22 989:10,19,22 desired 608 680:9 681:7 697:6 648:14 654:13 823:22 824:1,2,5 992:6 993:1,2 desire 630 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 despite 606 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 988:3 678:6,11 680:5,11 834:16 835:8,18 689:99:2,3 1003: | 0:15 |
|--|------------------|
| 685:1 692:20 859:1 958:4 delays 608:13 692:5 808:14 830:17 deliver 617:3,4 680:9 681:7 697:6 768:20 807:18 885:10 997:12 998:3 delivered 617:11 652:16 671:19 675:6710 829:3,20,22 814:1,6 815:4,20 816:5,7 817:2,4 977:19 984:5,20 979:6 975:1 976:1 816:5,7 817:2,4 977:19 984:5,20 979:19 984:5,20 979:10 984:21 985:17 986:5,7 987:5,13 986:5,7 987:5,13 986:5,7 987:5,13 986:5,7 987:5,13 987:16 988:3,4 964:5 desire 625:2 989:10,19,22 989:10,19,22 099:6 991:6 992:3 099:6 991:6 992:3 099:6 991:6 992:3 099:2,3 1003:3 099:2,3 1003:3 096:15 099:10,19,22 099:6 991:6 992:3 099:2,3 1003:3 099:2,3 1003:3 096:15 099:15,11 099:15,12 099:10,19 | 0:15 |
| 859:1 958:4 641:10 642:8,17 816:5,7 817:2,4 977:19 984:5,20 719:2 834 delays 608:13 692:5 642:18 643:2,8,13 817:14,16,21 984:21 985:17 837:15 808:14 830:17 643:16 644:4,8 818:9,21 819:3 986:5,7 987:5,13 desire 625:3 833:16 977:17 645:2,9,12,15 820:15 821:2,6,17 987:16 988:3,4 964:5 680:9 681:7 697:6 648:14 654:13 823:5,8,12,15,19 990:6 991:6 992:3 desire 630 761:3 763:12,13 655:11 657:2,12 823:22 824:1,2,5 992:6 993:1,2 desk 794:17 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 despite 606 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination delivered 617:11 681:8 687:3,11,19 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | |
| delays 608:13 692:5 642:18 643:2,8,13 817:14,16,21 984:21 985:17 837:15 808:14 830:17 643:16 644:4,8 818:9,21 819:3 986:5,7 987:5,13 965:5,7 987:5,13 833:16 977:17 645:2,9,12,15 820:15 821:2,6,17 987:16 988:3,4 964:5 680:9 681:7 697:6 648:14 654:13 823:5,8,12,15,19 990:6 991:6 992:3 992:6 993:1,2 761:3 763:12,13 655:11 657:2,12 823:22 824:1,2,5 992:6 993:1,2 993:1,2 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 993:15 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 681:8 687:3,11,19 687:21 689:4 836:14,16 837:6 897:7:9 674:10 73 677:9 756:19 690:11,16,22 837:13,21 838:4 69artment 966:21 812:5 813 | 4:17 |
| 808:14 830:17 643:16 644:4,8 818:9,21 819:3 986:5,7 987:5,13 desire 625:3 833:16 977:17 645:2,9,12,15 820:15 821:2,6,17 987:16 988:3,4 964:5 deliver 617:3,4 646:2 647:13,17 821:20 822:22 989:10,19,22 desired 608 680:9 681:7 697:6 648:14 654:13 823:5,8,12,15,19 990:6 991:6 992:3 desires 630 761:3 763:12,13 655:11 657:2,12 823:22 824:1,2,5 992:6 993:1,2 desk 794:17 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 despite 606 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination delivered 617:11 681:8 687:3,11,19 834:16 835:8,18 denying 777:9 674:10 73 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | |
| 833:16 977:17 645:2,9,12,15 820:15 821:2,6,17 987:16 988:3,4 964:5 deliver 617:3,4 646:2 647:13,17 821:20 822:22 989:10,19,22 desired 608 680:9 681:7 697:6 648:14 654:13 823:5,8,12,15,19 990:6 991:6 992:3 desires 630 761:3 763:12,13 655:11 657:2,12 823:22 824:1,2,5 992:6 993:1,2 desk 794:17 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 despite 606 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination delivered 617:11 681:8 687:3,11,19 834:16 835:8,18 denying 777:9 674:10 73 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | |
| deliver 617:3,4 646:2 647:13,17 821:20 822:22 989:10,19,22 desired 608 680:9 681:7 697:6 648:14 654:13 823:5,8,12,15,19 990:6 991:6 992:3 desired 608 761:3 763:12,13 655:11 657:2,12 823:22 824:1,2,5 992:6 993:1,2 988:70 998:10 998:10 998:10 998:10 998:10 998:10 998:10 998:10 998:10 999:10 | 2 629:10 |
| 680:9 681:7 697:6 648:14 654:13 823:5,8,12,15,19 990:6 991:6 992:3 desires 630 761:3 763:12,13 655:11 657:2,12 823:22 824:1,2,5 992:6 993:1,2 desk 794:17 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 despite 606 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | |
| 761:3 763:12,13 655:11 657:2,12 823:22 824:1,2,5 992:6 993:1,2 desk 794:17 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 despite 606 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | 3:8 |
| 768:20 807:18 658:15 663:5 824:9,19 826:3,8 994:6,14 998:16 despite 606 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination delivered 617:11 681:8 687:3,11,19 834:16 835:8,18 denying 777:9 674:10 73 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 |):11 |
| 885:10 997:12 669:5 673:11,14 827:8 832:6,6,9 999:2,3 1003:3 963:15 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination delivered 617:11 681:8 687:3,11,19 834:16 835:8,18 denying 777:9 674:10 73 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | 7 |
| 998:3 678:6,11 680:5,11 832:12,18 833:1 denied 992:5 destination delivered 617:11 681:8 687:3,11,19 834:16 835:8,18 denying 777:9 674:10 73 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | 5:1 959:4 |
| delivered 617:11 681:8 687:3,11,19 834:16 835:8,18 denying 777:9 674:10 73 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813:5 <t< td=""><td></td></t<> | |
| delivered 61:11 681:8 687:3,11,19 834:16 835:8,18 denying 777:9 674:10 73 652:16 671:19 687:21 689:4 836:14,16 837:6 department 966:21 812:5 813 677:9 756:19 690:11,16,22 837:13,21 838:4 department 830:14 88 | 1 620:2 |
| 677:9 756:19 690:11,16,22 837:13,21 838:4 departments 830:14 88 | 30:12 |
| l | 3:3 |
| | 88:21 |
| 757:18 760:7,7 691:8,9,21 692:4 840:16 847:1,15 765:22 768:13 941:22 96 | 63:3,7 |
| 763:17 764:20 695:5 696:5,10,18 847:17 853:7 depend 651:11 destined 61 | 14:2 |
| 788:21 789:1 697:9 703:2 704:2 857:20 860:4,18 705:5 716:9 617:19 | |
| 806:13 1005:1 707:15 713:15,20 861:13 863:5 824:18 881:10 detail 775:1 | 17 |
| deliveries 690:19 714:9 718:19,22 864:10,20 865:4 920:4 927:11 776:20 83 | 39:17 |
| 742:3 722:11,18 723:8 865:10 866:3 952:13 detailed 79: | 2:3 |
| delivering 604:16 724:3,7 726:3 867:6,10,12 870:4 dependable 630:13 808:3 839 | 9:12 |
| 606:19 608:14 729:3,8 731:13 871:14 874:1,3 dependent 695:10 918:17 92 | 20:8 |
| 734:15,17 740:12 732:9 734:6,8 875:17,19 876:15 928:11 1004:22 | |
| 764:14 816:20 735:11 739:16 877:8,11,13 878:4 depending 640:12 details 604: | :4 818:5 |
| delivers 652:6 742:7 744:1 878:12 879:3,5,12 660:5 789:12 877:15 95 | 53:5 |
| 681:12 957:12 745:10,11,14 884:16 885:2 858:20 868:15 976:6 | |
| delivery 599:15 749:6,14,19 750:8 886:10,17,22 depends 652:10 detained 62 | 21:21 |
| 619:9 761:21 750:18 752:8 889:16 892:8 758:13,16 789:9 detains 622 | 2:6 795:4 |
| 782:11 827:6,13 | 522:1 |
| 963:4 755:16 757:21 900:2 901:5 902:3 899:13 926:5 957:10 97 | 76:1 |
| delved 877:14 760:12,12 761:17 904:5,7,12 905:20 deplorable 971:12 determinat | tion |
| demand 630:18 762:15 763:15,16 906:9,13 907:7,16 deprives 683:11 869:17,20 | 0 870:6 |
| 824:4,21 832:2 765:4,8 767:11,17 908:6 909:3,11,14 depth 928:13 928:21 93 | |
| 862:16 866:16 768:2,3 769:7,8 909:19 910:17 derailment 969:11 determine 0 | 605:5 |
| 905:11 769:10 771:17 911:8,10,17 912:6 971:10 611:10 72 | 23:4 |
| demands 671:19 772:1 773:8 774:8 912:15 913:11,14 derailments 983:5 775:18 82 | |
| demolition 693:22 774:10 775:1,5,8 914:11,20,22 Derek 599:12 837:6,8 8 | 390:1 |
| demonstrate 775:15,20 776:6 915:12,16 916:2,4 826:15 827:1 1006:20 | |
| 625:15 934:5 777:14,16 778:5,8 917:1,6,14,19 844:12 849:11 determined | |
| demonstrated 778:14 779:21 918:1 919:17,20 872:20 878:13 891:3 956 | |
| 973:21 780:11,20 781:4 921:7 922:21 881:8 determines | |
| demonstrating 781:11 782:4,6,19 924:2,5,21 925:6 describe 835:13 determinin | 1g 620:20 |
| 919:3 783:4,17 785:3,18 925:9,14 927:18 914:5 925:1 679:21 | |
| demurrage 596:2 785:20,22 786:8 928:5 930:20 described 816:2 deterrent 8 | |
| 601:3 603:13 786:12,13 787:1 931:1 935:7,22 834:15 897:18 967:15 10 | |
| 606:7 610:22 787:12,18,19 940:18 942:1 904:9 detriment 9 | |
| 611:5 612:15 788:1 790:16 943:10,19 944:5 describing 746:13 detrimenta | |
| 614:19,22 616:3 791:3,9 792:11,16 947:19 949:4 750:17 876:11 864:2 950 | |
| 616:18 618:12 795:7 796:6 952:1,20 953:6,17 description 900:10 develop 610 | |
| 619:10 620:1,11 797:19 798:3,15 953:20 955:4,8 design 628:12 674:2 756:9 812 | |
| 621:8,8,12,19 799:22 807:14 957:4,22 958:12 674:22 679:8,12 816:14 81 | |
| 622:5,8,9,10 808:5,7,9,10,16 959:13,15,18 709:7 962:8 876:17,18 | |
| 623:1,3 625:18,21 808:22 809:4,8,9 960:7,14 961:1 designate 896:10 developed (| |
| 626:1,15,20,22 809:11,19,21 963:17 964:22 designated 619:4 765:1 835 | 5:16 |
| | |

| | | | • | |
|---------------------|---------------------------|-------------------------|------------------------|---------------------|
| development 700:6 | 637:4 638:11 | disclosing 777:6 | 739:5 762:4 781:8 | 849:4 |
| 700:19 835:15 | 639:22 651:7 | disconnect 667:22 | 782:22 795:21 | divert 811:17 |
| developments | 657:2,22 724:18 | discourage 706:9 | 798:17 809:7 | division 624:6 |
| 656:22 | 770:3 775:17 | 716:18 774:12 | 810:9,12 818:4,17 | divorcing 773:9 |
| deviate 977:9 | 776:18 844:3 | 834:17 | 837:14,20 838:1,5 | dock 805:17 |
| devil's 758:2 | 876:17 954:6,8 | discouraging 685:9 | 838:18,19 839:15 | documentation |
| dial 848:8 868:8 | 957:20 995:15 | 686:18 | 839:19 872:2 | 777:3 778:5 |
| dialogue 785:19 | difficulty 655:8 | discourse 837:2 | 918:16 920:8 | 872:14 |
| 812:17 814:21 | digging 842:21 | discovery 739:22 | 999:21 | documents 836:2 |
| 819:9,12 837:2 | dilemma 776:11,18 | discrepancy 665:5 | disputed 696:11 | doing 625:11 |
| 878:2 888:6 | 930:2 | discretion 605:21 | 957:10 958:2,10 | 628:15 643:1 |
| dialogues 645:22 | diligence 648:15 | 609:7 620:22 | disputes 610:18 | 698:13 717:18 |
| Dick 982:9 1002:14 | 924:20 925:1 | 621:3 680:1,3 | 611:6 627:20 | 724:9 735:4 738:4 |
| diem 658:21 | diligent 616:20 | 702:10,13 915:16 | 629:19 634:3 | 740:13 758:20 |
| difference 643:12 | 618:4 | 956:17 957:1 | 690:13 691:20,21 | 759:17,18 794:1,2 |
| 660:7 719:10 | dime 937:13 | discriminatory | 696:16 722:15 | 795:22 806:2 |
| 788:3 794:3 | Dinoja 598:3 689:8 | 622:22 | 774:17 781:11 | 865:15 884:1 |
| 893:11 905:14,22 | 689:9,11 732:7 | discuss 724:3 | 810:16 818:12,14 | 889:8 902:7 |
| 920:16 983:11 | 734:5 | 736:11,21 755:8 | 835:16 838:9,14 | 929:17 935:9,11 |
| 985:9 1005:16 | dipping 616:5 | 819:19 826:4 | 839:1 | 990:19 1001:17 |
| differences 786:5 | 683:13 | discussed 608:18 | disputing 605:6,9 | 1002:22 |
| 953:10 | direct 608:7 629:4 | 624:14 781:8 | 609:9 610:22 | dollar 696:17 710:9 |
| different 635:12 | 653:14 662:17 | 782:21 810:2 | 856:5 957:8 | 718:21 725:1 |
| 636:21 639:18 | 663:15 690:9 | 822:15 854:15 | disregard 685:16 | 829:21 864:7 |
| 648:5 651:20 | 772:19 773:15 | 980:8,10 | 686:22 | 901:20 906:14 |
| 669:8 695:3 | 778:14 790:12 | discussing 998:17 | disrespect 685:16 | dollars 603:6 623:5 |
| 719:18,22 721:19 | 819:11 923:8 | discussion 653:15 | 687:1 | 699:7 700:3 |
| 728:2 731:15 | 960:16 973:18 | 663:17 711:22 | disrespectful 882:5 | 709:14 711:4 |
| 733:13 737:13 | directed 790:14 | 786:7 842:19 | disrupt 631:12 | 714:16 715:19 |
| 757:15 761:4 | 889:6,7 932:11 | 884:13 887:12 | 703:12 | 719:8,12 769:10 |
| 771:8,9,13 785:17 | directing 773:22 | 921:20 974:1 | disrupted 797:6 | 781:6 821:11,19 |
| 800:19 804:4 | direction 673:8 | discussions 706:16 | disruption 954:4 | 821:21 829:18,20 |
| 844:10 866:12 | 823:20 887:8 | 726:1,3,10 820:14 | disruptions 703:19 | 830:1,4,7,9 866:3 |
| 873:8 876:20 | directions 842:11 | 920:8 | 813:13 830:20,21 | 873:14,17 905:19 |
| 881:18,19,19 | directly 628:19 | disguised 704:19 | disruptive 975:15 | 909:2 962:16 |
| 884:7,17 890:9 | 728:4 736:8 800:6 | 706:8 | dissatisfying 877:6 | 972:10,13 984:4 |
| 896:1 898:15 | 809:21 812:8 | disincentive 773:11 | distances 769:2 | 992:14 |
| 903:8 933:16,17 | 820:9 835:19 | 803:12 | distinct 718:15 | domestic 671:20 |
| 941:16 955:20,20 | 839:6 950:10 | disincentivize | 781:14 | 694:3 |
| 970:20 984:22 | Director 597:4 | 772:17 | distinction 798:15 | Don 1002:11 |
| 990:2 | 600:7 961:10 | disincentivizing | distinguished 648:7 | door 700:20 756:13 |
| differential 659:15 | 1002:10 | 773:6 | distorted 625:21 | 756:14,15,15 |
| 659:21 684:12 | Directors 631:7 | disparage 718:10 | distribute 978:8 | 757:3,11 763:18 |
| 732:1 893:5 | directs 617:4 | disparity 952:18 | distributes 670:19 | 763:20,21 803:21 |
| differentiate 746:7 | disadvantaged | dispatch 967:4 | distribution 612:4 | 803:22 810:5 |
| 751:11 | 657:12,20 779:16 | 969:5 970:11 | 612:9 618:15 | 924:12 926:12 |
| differentiating | 780:1 | dispatcher 972:22 | 833:9 | 1005:14 |
| 658:5 | disadvantaging | dispense 857:6 | Diversified 597:7 | doors 760:10 |
| differentiation | 781:22 | displacement | 602:11 611:22 | 763:19 786:18,19 |
| 658:10 | disaggregate | 988:22 | 612:2,10,21 613:1 | 787:6 788:11,16 |
| differently 645:22 | 776:21 | disproportionate | 613:6,12,17 | 805:17 |
| 657:18 907:13 | disagree 846:3 | 821:13 | 614:14 615:6,18 | Doraville 697:1 |
| differing 651:22 | disagreements | disprove 930:4 | 623:7 | 747:16 |
| differs 630:5 | 629:13 | disproving 964:3 | Diversified's | DOT 973:16 |
| 771:18 897:17 | disappoint 934:16 | dispute 634:1,14 | 614:10,18 615:11 | double 676:5 |
| difficult 628:5 | disaster 699:12 | 635:1 647:1 737:2 | diversion 848:18 | 683:13 696:7 |
| | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| | | | | |

| | | | | Page 1023 |
|--|--------------------------------------|--------------------------------------|--|-------------------------------------|
| 000 7 002 17 | D1 | - PC 4 CO 4 7 CO 0 | 1006.5 | COA 10 20 COZ 22 |
| 908:7 982:15 | Dusenberry | effect 604:7 608:8 | 1006:5 | 684:18,20 687:22 |
| double- 616:4 | 1002:13 | 614:21 660:4,5 | efforts 698:7 | 696:13 713:18 |
| double-check | duty 799:20 | 696:3 719:13 | 807:15 808:21 | 751:6 752:16 |
| 767:18,19 | dwell 663:21 668:3 | 774:6 848:17 | 812:18 814:7 | 760:1 831:18,19 |
| double-dipping | 757:21 769:12 | 850:10 863:22 | 819:13 825:6 | 831:20 892:11 |
| 609:17 661:14 | 809:15 812:13 | 897:6 | 826:18 828:12 | 976:13 986:10 |
| doubling 613:18 | 968:14 | effective 607:4 | 835:13 839:10 | enable 611:4 625:7 |
| 732:13 | dwelling 833:2 | 616:5 673:13 | 877:21 | 631:18 771:7 |
| doubt 855:20 | 868:12 915:4 | 678:16 698:2 | either 618:18 687:3 | 829:16 885:17 |
| Doug 1002:14 dovetails 926:1 | 919:15,18 950:18 Dramshama (20:17 | 730:16 812:3 | 690:15,21 691:3 | 915:8 916:14 |
| | Dyersburg 689:17 | 815:6 859:7 | 784:3 786:1 793:8 | enabled 825:5 |
| downs 747:8 | | 978:19 1000:20 | 839:8 856:12 | encapsulated |
| downstream 639:12 649:21 650:11 | E 596:8 601:1,1 | effectively 803:8 808:1 851:3 | 869:21 945:16 950:14 985:16 | 776:11 encounter 950:1 |
| | e-bill 838:15 | 871:18 908:13 | El 701:20 | encountered 621:3 |
| downturn 666:8 dozen 985:22 | e-business 827:12 | effectiveness | elaborate 646:20 | |
| | | | | encourage 621:16 622:2 623:9 |
| Dragon 612:8,12,14 612:16,19 614:16 | 836:2 838:9 earlier 658:4 | 604:15 effects 742:3 829:8 | 662:20 762:4 elected 628:21 | 678:17 687:18 |
| 615:5,8,13 | 713:16 715:9 | | | |
| dramatically 703:5 | 749:16 783:10 | 873:6,11 946:8 950:14 | electric 600:12,15 961:15 974:10,11 | 689:3 731:15 774:11 824:3 |
| dramatically 703:3 | 795:11 797:5 | efficiencies 631:9 | element 904:14 | 831:13 833:15 |
| draw 804:14 drawing 823:14 | 822:15 897:8 | 746:14 780:19 | 945:6,12 998:14 | 835:6 913:3 915:6 |
| dreamed 702:12 | 899:20 917:21 | 814:3 829:13 | elements 820:8 | 951:1 |
| drive 821:7 828:14 | 979:5 | 844:9 | 889:10 926:5,5 | encouraged 672:14 |
| 890:14 955:14 | early 710:2 715:5 | efficiency 607:18 | 938:1 944:19 | 710:13,14 726:16 |
| 991:16,17 | 810:3 819:17 | 636:15 661:20 | eliminate 605:10 | encourages 832:5 |
| drive-off 720:22 | 889:10 962:9 | 701:2 702:18 | 628:14,18 639:17 | encouraging 710:19 |
| drive-01 720.22 driven 859:9 | earned 669:4 | 703:3 808:11 | 808:16 985:16 | 711:2 830:12 |
| 904:19 906:3 | earnest 845:5 | 832:19 833:21 | eliminates 956:16 | 833:4 835:10 |
| 953:19 | easier 634:8 749:17 | 854:3 885:8 | elimination 610:1 | 914:15 987:21 |
| drives 890:16 | 794:12 823:5 | 955:14 964:8 | elk 970:13 | endeavor 856:12 |
| driving 631:1 | easily 878:3 | 971:20 974:1 | Ellen 1002:19 | 876:17 |
| 720:18 780:12 | east 676:8 695:17 | efficient 621:18 | email 678:14 | endeavored 854:20 |
| 858:17 960:11 | east/west 676:4,18 | 622:2 626:17 | 835:20 | ended 697:11 |
| drop 675:9 801:20 | 678:1 | 628:14 678:17 | emails 847:6 | endless 774:18 |
| 929:17 | Easter 970:9 | 700:22 701:6,15 | embargoed 629:21 | ends 702:2 |
| drop-down 931:10 | Eastern 962:1 | 704:22 727:20 | emerged 877:2 | energy 600:9 808:4 |
| dropped 821:20 | easy 629:15 770:5,5 | 729:22 730:1,16 | emergency 930:10 | 951:8,20 963:14 |
| dry 772:5 | 867:3 878:6 | 772:15 807:21 | Emily 600:14 974:4 | 966:9 967:12 |
| due 606:5 619:21 | eating 744:12 | 813:11 815:13 | 974:8 981:6 | enforce 914:9,11 |
| 648:15 667:11,12 | EC 969:20 | 824:3 825:4 826:7 | 995:17 996:19 | 956:5,18 978:4 |
| 680:9 681:22 | echo 651:3 779:4 | 827:20 828:4 | emphasize 881:7 | enforced 959:9 |
| 690:3 702:11 | 844:13 1004:1 | 831:14 832:5 | employee 836:18 | enforcement |
| 710:3 714:9 | economic 971:4 | 833:4,9 835:11 | employees 631:7 | 953:12 958:16 |
| 732:22 735:17,17 | 1004:10 | 853:13,15,20 | 681:3 691:5 | enforces 852:14 |
| 777:19 822:21 | economically | 873:7 881:14 | 825:14 835:3 | enforcing 914:21 |
| 823:1 912:12 | 607:19 | 912:3 | employment 707:22 | engage 809:21 |
| 917:11 924:19,22 | Economics 1002:13 | efficiently 627:17 | employs 628:10 | 834:12 842:6 |
| 969:2 | economist 773:12 | 744:4 808:18 | emptied 759:22 | 885:17 941:19 |
| dumper 976:11 | 946:18 | 833:1,10,17 | empties 636:6 637:9 | engagement 810:4 |
| duplicative 776:3 | economy 666:7,10 | 872:22 874:5 | 639:5 681:18 | engages 819:20 |
| durham 671:1,8 | 667:11 825:8 | 913:1 | 685:1 691:16 | 820:12 831:12 |
| 672:2 | 1007:15 | effort 818:20 839:4 | 745:2 747:2 | engaging 812:8 |
| durum 597:20 | edge 998:6 | 841:17 1001:12 | empty 616:6 617:2 | 834:18 |
| 670:15 707:18 | edified 923:4 | 1002:22 1003:16 | 617:8 677:4,5 | engine 682:1 958:6 |
| 709:19 | educated 973:2 | 1003:18 1004:17 | 678:5,6,20 684:12 | engineer 874:13 |
| | | | , . , | |
| | | | | |

| | | | _ | |
|---------------------------------------|---------------------|--------------------------------------|-----------------------------------|----------------------|
| engineers 628:11 | 971:8 982:17 | 715:12 795:3 | 848:20 | excusing 923:20 |
| engines 682:4 | equal 613:17 | establishment | exactly 637:9 | executive 597:8,13 |
| English 965:10 | 659:20 | 706:4 | 646:16 648:9 | 597:18 598:12 |
| enjoy 703:13 823:4 | equally 601:13 | estate 940:17 | 651:18 662:16 | 600:7 611:15 |
| enjoy 703.13 823.4 enjoyment 708:4 | 828:21 936:11 | estimate 763:22 | 712:5 729:9 | 623:17 768:4 |
| enlightening 601:12 | equation 607:19 | 995:1 | 737:19 740:3 | 961:10 |
| 718:12 1004:19 | 624:13 946:17 | estimated 809:11 | 743:17 784:11 | exercise 611:7 |
| enormous 1000:2 | equipment 621:15 | 809:19 | 790:5 791:7 | 677:12 678:2 |
| 1003:2 | 684:21 757:4 | et 706:15 760:14,14 | 798:21 800:14 | 692:16 956:22 |
| enormously 942:18 | 797:21 807:22 | 766:5 767:3 | 866:6 894:1 | exerting 703:16 |
| 997:17 | | 805:12 806:2 | 897:18 926:4 | exhaustive 878:19 |
| ,,,,-, | 809:11 813:18 | 810:3 931:8 937:1 | | |
| ensure 607:8 | 824:3 826:20 | | 988:7 991:12 | existing 776:3 |
| 627:17 683:18 | 830:12,22 831:1 | 972:7 1000:13 | example 608:12 | 811:19 825:2,4 |
| 691:1 797:5 810:5 | 831:15,16 832:11 | 1001:14 | 609:20 610:1 | 913:3 |
| 812:18 815:21 | 832:17,19 833:4 | ETA 616:13 680:22 | 615:19 617:19 | exists 963:8 |
| 816:4 822:12 | 833:14,17 859:2 | 990:20 | 618:5 621:14 | expand 672:14 |
| 823:22 824:16 | 862:10 868:16,17 | ETA's 680:19 806:4 | 644:20 681:12 | 673:3 674:3 679:6 |
| 835:20 836:11,14 | 892:5,6,15,18,20 | Etzel 783:10 | 684:10 687:13 | 679:9 685:12 |
| 837:15 839:13 | 893:1 894:2,19 | evaluate 636:3 | 720:6 745:10 | 686:20 715:11 |
| 843:20 847:5,6 | 907:5 913:4 | 662:6 664:9 960:9 | 746:2,6,22 750:2 | 864:11 940:17 |
| 848:4 853:6 | 914:16 915:3,4,9 | evaluated 636:22 | 780:22 790:6 | expanding 721:3 |
| 909:15,19 910:10 | 916:6 945:16 | 655:22 | 823:11 831:4 | expansion 672:21 |
| 960:13 965:6 | equipped 601:16 | evaluating 610:15 | 834:7 839:22 | 674:1 675:4,11,12 |
| ensures 824:17 | equitable 781:22 | 646:3 661:19 | 845:16 864:13 | 681:11 707:4 |
| ensuring 688:19 | equitably 779:21 | 864:9,15 882:17 | 879:4,4 883:21 | 715:5,7 983:16 |
| 807:22 824:19 | 965:8 | evaluation 641:15 | 898:17 899:3 | expect 691:14 |
| 825:11 831:20 | equivalent 739:13 | event 655:7 836:7 | 919:12,13 934:2 | 697:18 720:3 |
| 852:3 871:11 | 806:18 | 879:6 924:6 976:7 | 940:9 942:6 | 800:1 826:11 |
| enter 643:15,22 | eroded 956:9 | 982:17 1005:18 | 949:14 952:21 | 876:4 883:1 |
| 646:8 | erroneous 964:3 | events 810:7 816:5 | 954:9 956:10 | expectation 778:7 |
| entered 613:6 | error 635:7 702:18 | 818:21 820:13 | 957:3 975:10 | 799:17 800:8 |
| enticed 711:10 | 960:16 999:13 | 956:11 969:4,6,13 | 994:12 | 813:1 840:11 |
| entire 621:17 | errors 692:19,22 | 971:8 | examples 619:14 | expectations 870:16 |
| 695:16 739:13 | escalation 819:2 | eventually 694:19 | 628:9 683:2 | 926:8 929:11 |
| 777:4 811:3 814:4 | 824:12 | everybody 632:21 | 819:13 836:11 | expected 603:7 |
| 831:22 832:21 | escalations 972:7 | 635:13 646:17 | 963:21 | 703:18 918:6 |
| 860:9 913:7 930:3 | especially 658:20 | 709:1 726:21 | exceed 614:7 | 952:18,19 |
| 935:16 957:5 | 844:22 874:22 | 759:11 762:11 | 619:19 832:7 | expecting 701:13 |
| entirely 785:11 | 936:16 960:15 | 785:8 855:7 | excellence 825:10 | expended 955:22 |
| 796:2 863:8,9 | 978:18 1004:14 | 859:12 865:7 | excellent 625:7 | expense 929:18 |
| 921:13 | essential 771:7 | 882:11 914:19 | 631:18 | 956:21 |
| entities 638:7 | essentially 604:11 | 968:7 1003:16 | exceptions 628:5 | expenses 621:20 |
| 961:16 | 739:17 851:10 | everybody's 872:14 | 669:14 817:3 | expensive 693:2 |
| entitled 860:21 | 856:22 949:18 | everyone's 661:3 | 842:1 936:15 | 963:2 |
| 995:22 | establish 610:14 | 729:6 936:9 | excess 614:6 669:3 | experience 614:10 |
| entity 917:14 918:5 | 611:3 618:12 | evidence 621:5 | 747:9 862:10 | 615:4 623:22 |
| entrepreneur | 679:16 703:22 | 739:6 768:8,10 | 925:8 936:22 | 659:11 680:18 |
| 694:18 | 705:18 753:5 | 866:22 867:5 | excessive 614:3 | 721:14 724:16 |
| envelope 906:14 | 776:2 937:11 | 999:20 | exchange 965:12 | 804:15 819:15 |
| envelope 900.14 environment | 997:5 | evolution 845:21 | exchanged 946:1 | 820:1 842:7 |
| 650:16 780:19 | established 612:10 | evolution 643.21 | exclude 857:2 | 858:10 969:3 |
| 831:10 843:15 | 615:1 686:5 724:9 | evolve 819.11 evolved 845:3 962:8 | exclude 837.2 excluding 821:17 | 1005:9,10 |
| 945:4 | 816:3 817:20 | exacerbated 953:20 | excuse 640:3 674:7 | experiences 690:8 |
| envisioned 797:12 | establishes 659:11 | exacerbates 604:8 | 695:21 753:9 | 692:2 841:22 |
| EP 626:21 | establishing 648:16 | exacerbating 982:5 | 852:17 | |
| episodic 969:4,6,13 | 690:11 703:10 | _ | | experiencing |
| episouic 909:4,0,13 | 090.11 /03:10 | exact 653:21 725:14 | excused 951:5 | 963:11,16 |
| | 1 | ı | 1 | 1 |

| | | | | 1490 1023 |
|----------------------|---------------------|----------------------------|----------------------------|---------------------------|
| a ata 006.2 | 910.6 | foot | fo:41, (09,22, (09,7 | 000.1 001.22 |
| experts 906:2 | 819:6 | fact-specific 620:22 | faith 608:22 698:7 | 980:1 981:22 |
| expire 668:11 | facilitates 626:16 | 877:10 880:10,12 | 927:22 956:3 | feasible 605:15 |
| 669:13,18 851:13 | facilitating 831:13 | 880:14,14,15,16 | fall 834:3 885:21 | 648:13 706:6 |
| 851:19 854:11 | facilities 612:4 | 881:3,9 933:18 | 1006:5 | February 696:6,9 |
| expires 601:18 | 614:4 629:2 665:3 | factor 656:2 722:19 | falling 805:12 | 752:10 815:4 |
| 850:20 853:22 | 689:16 690:16 | 829:14 963:3 | falls 806:6 | federal 927:21 |
| explain 664:14 | 691:1 693:18 | factors 655:20 | familiar 670:13 | 973:17 |
| 678:7 718:11 | 694:10,12 695:12 | 656:2 666:4 | 883:19 952:18 | fee 605:8 610:3 |
| 827:19 835:17 | 695:12 701:18 | 723:12 780:12 | familiarization | 617:14 764:7 |
| 848:22 849:12 | 705:19 770:22 | 829:11 864:19 | 816:10 | 765:1 768:2 |
| 895:22 973:1 | 776:5 780:6 | 876:21 969:2 | family 741:13 | 773:13 848:18 |
| 993:19 | 804:19 810:6 | factory 874:16 | 825:14 | 849:4 879:5 932:7 |
| explained 619:14 | 811:18 813:9,13 | facts 621:6 680:4 | family's 694:15 | 984:19 987:13,16 |
| 660:11 908:9 | 813:18 815:8 | 741:15 814:22 | Fancher 1001:20 | 988:3,4 |
| 917:20 957:16 | 832:13 868:14,15 | 821:5 934:5 | far 647:11 648:6 | feedback 662:9 |
| explaining 777:3 | 882:3 887:15 | factual 621:2 920:2 | 665:2 683:5 | 817:22 820:10,22 |
| explore 640:21 | 888:9 896:1,2,3 | Fahrenheit 831:11 | 696:22 708:12 | 821:1 841:6 842:4 |
| 778:13 | 912:4 945:21 | fail 609:7 954:12 | 781:3 801:17 | 843:13,15 847:16 |
| expose 772:9 | 952:15 955:2 | 960:21 | 807:13 955:10 | 847:22 1007:5 |
| exposure 904:12 | 956:2 | failed 616:12 856:8 | 957:22 959:15 | feel 639:19 660:13 |
| express 952:4 | facility 606:18 | 954:16 | 962:19 971:8,11 | 741:14 779:15,22 |
| expressed 715:12 | 608:22 615:2 | failing 695:6 958:7 | 973:5 998:6 | 795:12 841:16 |
| expressly 911:17 | 617:5 644:21 | fails 618:18 681:7 | fast 729:1 738:14 | 860:10 864:1 |
| 913:17 | 645:1 646:6,7 | 838:11 935:14 | 962:20 | 865:17 869:3 |
| extend 852:2 | 677:15 679:3,12 | failure 629:22 | faster 666:11,12 | 885:9 901:17 |
| 956:11 | 697:1,3,5 700:17 | 697:15 761:18,19 | 705:5 752:12 | 920:12 921:21,22 |
| extended 676:9 | 706:10 709:3 | 861:22 862:12 | 830:14 831:14,16 | 935:17,22 967:21 |
| 962:19 | 712:17 745:2 | 920:1 928:19 | 857:4 | 1005:2 |
| extending 632:15 | 746:10 780:11 | 953:9 | fastest 625:3 | feeling 664:5 |
| extension 661:9 | 789:6 803:15 | failures 619:22 | fastest-growing | feels 643:13 941:2 |
| extensively 605:19 | 810:18,22 811:2,7 | 680:13 681:6 | 631:13 | 949:2 |
| 662:8 | 811:10,12 812:11 | 688:1,5 691:12 | Father's 970:9 | fees 618:7 620:1,3 |
| extent 644:9 688:22 | 817:11 833:8,21 | 702:22 830:22 | fault 604:12 638:17 | 625:19 626:1 |
| 726:1 931:7 946:8 | 840:3 858:21 | fair 650:13,14 | 638:19 639:9 | 627:19 629:20 |
| extra 690:22 712:13 | 864:11 886:2 | 680:14 685:4 | 640:7 654:12,15 | 633:9 645:13 |
| 738:13,15 787:7 | 888:11 893:2 | 686:12 687:15 | 690:12 737:8,9,9 | 691:22 692:4 |
| 790:10 791:1 | 896:10,12 897:22 | 692:10,15 701:13 | 737:12,14,16,17 | 696:6 768:15 |
| 940:11 976:9 | 919:15 936:14 | 703:22 740:15 | 738:1,5,7,9,11 | 773:8 775:5 |
| 994:13 1001:6 | 940:18 950:16 | 786:16 833:16 | 745:4,6 746:19 | 790:16 813:16 |
| extrapolate 927:19 | 954:18 957:6,11 | 837:16 840:17 | 747:4,5,5 775:5 | 876:15 953:7,12 |
| extreme 744:16 | 957:17 | 851:12 852:8 | 786:2 794:20 | 953:20 955:5,8,10 |
| 831:5 949:22 | facing 693:13 | 853:3,3 854:6 | 853:17,17,18 | 956:6 957:1,4,14 |
| extremely 614:16 | 696:17 697:8 | 855:8,12 863:1 | 860:3,8,17 861:6 | 957:22 958:12,15 |
| 904:6 | 779:2 | 902:22 903:7 | 885:18,19 920:1 | 959:13,15,18 |
| eye-opening 1005:9 | fact 605:20 607:9 | 911:3,5 921:20 | 920:17,19 922:16 | 960:7 963:17 |
| eyes 625:12 | 610:4 625:8 | 922:14 933:19 | 922:22 923:13 | 964:1,3 972:7,11 |
| | 626:22 628:6 | 946:15 965:19 | 924:1,16 939:20 | 973:11 984:16,16 |
| F | 698:6 712:9 | 973:11 989:10 | 939:22 984:11 | 986:21 |
| face 692:13 695:5 | 729:10 774:20 | 1006:10 | 992:19,21 993:3 | feet 744:12 764:13 |
| 958:11 976:3 | 778:22 797:20 | fairly 650:16 | 993:14 998:15 | 764:14 |
| faced 681:9 | 851:6 861:4 | 780:15 858:7 | 999:9 | fell 777:4 |
| facetious 992:1 | 889:21 933:21 | 965:7 | favor 619:2 629:21 | fellow 952:5 |
| facetiously 743:8,8 | 934:2,12,17 | fairness 603:18 | 647:5 711:9 | FERC 978:2,2 |
| facets 961:17 | 945:18 948:15 | 607:1 622:20 | 726:20 | ferrous 693:16 |
| facie 648:16 | 955:5 | 744:21 833:5 | favorably 800:9 | fertilizers 771:3 |
| facilitate 630:14 | fact- 680:1 | 975:21 | fear 718:3 972:9 | fewer 630:18 |
| | | | | |
| | | | | |

| | | | I | ĺ |
|------------------------------------|--|-------------------------------|---|---------------------------------------|
| 665:17,18,20,21 | finish 678:9 | 750:10,16,18 | 1001:5 1004:12 | 927:22 946:1 |
| 832:1 953:22 | finished 613:16 | 751:1,22 866:13 | 1007:7 | 982:3 |
| field 649:4,12,16 | finishing 889:13 | 866:16,17 964:16 | folks' 652:4 | forthcoming 624:18 |
| 951:15 | fire 1007:10 | 966:13 | follow 708:18 | fortunately 758:1 |
| FIFO 748:9 | firm 611:16 670:9 | fleets 627:2 642:19 | 765:22 940:7 | forward 601:11 |
| Fifth 609:11 975:20 | 765:12 | 672:11 751:5 | follow- 938:6 | 602:21,22 611:12 |
| fight 792:15 | firms 804:21,21 | 809:11 961:20,22 | follow-up 603:21 | 631:10 693:5 |
| fighting 967:6 | first 601:4 602:9,12 | 964:14 973:10 | 610:10 662:16 | 718:16 721:21 |
| figure 638:14 640:6 | 604:16 607:16 | flexibility 674:5 | 734:5 742:5 | 765:16 778:3 |
| 648:12 662:19 | 610:10 630:10 | 702:20 895:4 | 932:16,22 968:1 | 818:10 820:20 |
| 714:13 715:15 | 655:6 658:18 | 965:19 | followed 625:19 | 907:20 916:20 |
| 721:8 793:22 | 664:3,13,16 | flexible 650:18 | 978:9 | 933:17 978:20 |
| 859:15 905:5 | 665:15 666:4 | flooding 708:8 | following 602:3 | 992:20 |
| 925:10 929:20 | 670:1 673:9 676:3 | 809:14 828:1 | 611:19 818:13 | forwarded 901:14 |
| 930:4,6 987:12 | 677:10 689:7 | 924:11 | 819:12 888:14 | forwarding 616:8 |
| figuring 639:1 | 692:8 707:15,21 | floods 708:12 | 959:21 986:19 | fostering 830:19 |
| 1001:14 | 708:1 712:20 | Florida 612:6 | 998:22 | found 620:7 624:17 |
| file 754:21 920:5 | 717:20 727:22 | flow 744:1 | follows 839:13 | 642:15 692:10 |
| 927:21 | 740:18 754:17 | flows 812:11 | food 755:20,20 | 918:7 958:3 |
| filed 733:8 838:8 | 769:9 776:19 | fluid 683:18 813:2 | 771:4 | 981:16 1006:7 |
| filing 625:17 628:21 | 801:15 809:3,4 | 815:7,21 824:16 | foot 675:19 854:1 | foundation 689:1 |
| filings 632:5 | 811:6 814:5 | 824:17 831:14 | 885:21 | 828:15 956:8 |
| 1004:18 | 823:13 842:16 | 833:9 909:15 | force 602:17 703:4 | founded 670:18 |
| fill 1001:6 | 844:18 845:10 | 910:10 1007:13 | 923:18 924:6 | four 630:9 747:20 |
| filled 663:22 670:20 | 848:1,7 856:6 | fluidity 626:5,11 | 978:16 982:5 | 759:5 953:14 |
| filter 694:1 | 899:1 902:11,11 | 819:19 826:10,19 | forced 610:2 682:6 | fourth 609:3 630:21 |
| final 650:19 722:5 | 905:13,13,20 | 827:21 828:6,13 | 682:18 690:21 | 975:19 978:1 |
| 722:11,12,17,21 | 906:8,9 908:6,7 | 828:18,19 829:13 | 751:20,21 776:2 | FRA 883:21 884:6 |
| 722:21 723:4 | 908:15 910:8 | 830:17 913:5 | 793:11 975:5,7 | 884:6 |
| 724:2,4 733:6,9 | 921:8 923:6 | fluidly 852:15 | 987:18 | fraction 627:21 |
| 733:11 795:2 | 958:22 966:20,22 | 912:2 | forceful 766:19 | 992:3 |
| 818:8 | 968:8,8 969:4 | focus 603:15 613:20 | forecast 908:20 | frank 847:16 |
| finally 609:17 611:7 | 970:19,21 972:18 | 678:11 697:1 | forecasted 721:10 | 854:14 858:16 |
| 616:2 622:4,19 | 974:9 975:5 | 704:21 807:17 | forecasting 862:5 | 862:18 1002:16 |
| 741:9 809:6 | 977:10 982:16 | 814:18 819:21 | 874:10 | frankly 858:20 |
| 811:12 | 988:10,22 993:9 | 825:3 845:12 | forecasts 871:6 | 885:11 901:21 |
| financial 698:15 | 996:8 1001:3 | 848:9 880:7 | foregone 991:3 | 926:11 967:14 |
| 821:7 976:4 | fits 858:9 876:18 | 960:18 971:22 | foreign 658:20,21 | 1000:5 1006:9,19 |
| 996:22 | 877:4 879:10,14 | focused 630:10 | forensic 929:19 | FRCA 974:14,20 |
| financially 682:6,18 | 881:12 886:8,20 | 664:2 725:10 | forever 991:5 | 974:21 981:10 |
| 953:2 954:10 | 886:22 955:21 | 771:15 828:16 | forgive 772:6 | Fred 1002:6 |
| 964:6 find 628:14 646:10 | five 747:20 fix 661:2 796:16 | 835:15 844:19 845:3 877:21 | forgot 979:5 form 658:2 668:20 | free 604:1,9 605:9 610:1 622:7 |
| | | | | 630:15 633:8 |
| 653:5 662:12 680:5 707:14 | 1006:13 fixed 773:18 | 924:15 934:19 949:1 971:19 | 668:21 770:22 formal 633:3 | 651:6,10 657:2 |
| 718:3 775:7 784:1 | flag 810:11 817:8 | 1005:13 | 739:22 817:22 | 661:9,20,22 662:2 |
| 784:2,3 861:11 | flags 937:15 | focuses 685:4 | formed 755:7 | 663:5,7 682:1 |
| 909:8,12 917:17 | flat 908:13 909:4 | 686:13 972:1 | former 672:15 | 702:5 703:2 |
| 968:21 | 983:20 | focusing 659:3 | 741:7 | 719:18,19 720:9 |
| finding 731:19 | flaws 999:18 | 867:2 877:21 | formula 937:20 | 719.18,19 720.9 |
| 782:19 797:4 | fleet 604:3 630:19 | folks 634:19 654:2 | 938:4 | 731:12 741:14 |
| 1001:13 | 646:5 685:2 | 656:19 658:8 | Forstall 1002:6 | 751:12 741:14 |
| fine 645:11,17 | 688:20 695:13 | 705:6 707:7 731:5 | Fort 874:16 | 776:11 795:5,9 |
| 712:7 916:9 | 698:12,16,18 | 841:21 858:22 | forth 617:16 622:7 | 803:17 832:7,17 |
| 921:19 970:14 | 699:9,10 710:6 | 881:21 904:4 | 663:22 665:13 | 842:19 843:3,4 |
| 989:10 | 730:9 747:7,8,12 | 996:11 998:13 | 721:4 748:10,22 | 867:4,9 869:6,7 |
| 707.10 | 130.7 171.1,0,12 | 770.11 770.13 | 721.1740.10,22 | 007.1,2 002.0,7 |
| | | | | |

| | | | | 1490 1027 |
|---------------------|-------------------|----------------------------|----------------------|-----------------------|
| 960-21-972-12 | 710.14.710.16 | 000-10-001-10 | 075.10.1005.10 | |
| 869:21 873:12 | 718:14 719:16 | 990:18 991:19 | 975:18 1005:19 | generate 627:22 |
| 892:2,20 894:13 | 720:6 721:6,18 | 992:16 993:19,22 | G | 854:14 956:20 |
| 895:13,21 896:13 | 722:7 723:6,20 | 994:4,11 995:3,10 | | generated 634:15 |
| 897:1,5,16,19 | 724:5,12,15,21 | 995:13,17 996:4 | G 601:1 | 767:22 836:17 |
| 898:16 900:5 | 725:8,13,17,22 | 996:16 997:4,11 | Gabe 1002:7 | generating 808:8 |
| 905:5 936:13 | 727:6,14 728:10 | 997:14 998:8 | gain 943:18 | generation 974:11 |
| 954:13 956:12 | 728:16 729:5,17 | 999:1,19 1000:21 | gained 814:4 | generator 618:20 |
| freight 600:12,16 | 730:19 744:20 | 1004:1 | Gainey 599:16 | genuinely 726:12 |
| 603:4 618:14,16 | 745:9,15,18,21 | fuel 600:14 780:19 | 825:18,20 876:16 | 726:14 |
| 618:21 621:16 | 746:3 747:1,18 | 825:8 974:9 | 879:7 880:6,17,21 | geographically |
| 674:8 706:4,6,9 | 748:3,7 749:8 | 978:12 | 881:2 891:22 | 940:10 |
| 709:18,19 711:7,8 | 750:1,15 752:19 | fuels 771:3 | 911:9,17,22 | Georgia 693:19 |
| 752:15 832:22 | 754:3 770:11 | fulfill 618:18 | 912:17,22 913:13 | 694:7,8,9,9,11,13 |
| 847:18 865:10,12 | 799:8,15 800:10 | 743:22 853:21 | 913:16 914:4,13 | 694:13 697:1 |
| 885:10 951:9,22 | 802:22 804:1,5,13 | 862:15 921:18 | 915:1,15,20,22 | Georgia-related |
| 952:7 958:11,17 | 804:22 805:4,7,10 | fulfilling 944:7 | 916:4,11 917:4,20 | 695:19 |
| 972:7 974:14 | 805:20 806:9,15 | fulfills 618:14 | 918:12 919:12 | getting 644:15,15 |
| 986:6,8,9 | 807:1 814:13 | full 601:10 623:10 | 920:2,21 921:3 | 650:21 666:2 |
| freight-paying | 849:10,21 850:8 | 687:13,15 693:16 | 950:5 | 667:7 699:1,3 |
| 812:2 931:3 | 850:15,19 851:1,5 | 714:8 769:18 | gallon 613:16 | 701:14 718:7 |
| frequency 789:6 | 851:8,11,17,21 | 812:1 837:22 | game 730:2 | 723:18 739:15 |
| frequently 619:21 | 852:5,10,16 | 859:5 874:4 905:2 | gangs 969:19,20 | 749:19 758:17,19 |
| 884:10 | 853:12 854:10,18 | 914:19 915:4 | gap 797:7 | 759:14 762:12 |
| fresh 634:9 | 855:6,10,15,18,20 | 994:10 | garner 844:5 | 764:12 787:1,13 |
| Friday 672:20 | 856:4 863:14 | full-time 781:10 | gas 613:10 | 787:22 792:8 |
| 735:20 801:14,21 | 864:4,22 865:2,6 | fullest 688:22 | gate 697:5 747:22 | 803:9,16 856:7 |
| 871:16 881:22 | 865:8,13,20 866:6 | 954:22 | 747:22 834:10 | 861:18 880:2 |
| 882:8 894:21 | 866:15,18,21 | fully 717:12 777:2 | 897:20 | 895:16 917:2 |
| 898:19 942:9,19 | 867:19 868:1,18 | 859:18 868:22 | gateway 845:7,16 | 918:5 947:11 |
| 942:22 | 868:20 869:1,4,8 | 877:7 928:11 | gather 713:11 | 948:5 970:18 |
| friendly 648:7 | 869:11 870:2,14 | 964:7 | 739:22 750:6 | 971:1 975:15 |
| 910:22 | 870:17,20 871:1 | fulsome 861:8 | gathered 919:6 | 996:6 1003:20 |
| friends 741:13 | 872:13 874:18 | function 808:1 | gathers 664:8 | give 620:3 621:1 |
| front 748:5 848:20 | 875:4,13,18 876:2 | 834:16 978:9 | gavel 1007:17 | 632:20 633:14,19 |
| 855:17 906:5 | 876:7 879:13 | functional 780:6 | GE 874:15 | 635:22 636:2 |
| 924:10 927:12 | 880:11,20,22 | functionality 817:7 | gears 909:6 916:21 | 638:16,19 651:19 |
| frustrating 877:6 | 882:13,21 883:3,8 | fundamental | general 598:7 599:5 | 657:20 661:1 |
| 938:1 | 883:18 893:9,18 | 975:21 | 611:17 670:11 | 680:2,12 701:16 |
| frustration 665:19 | 894:8,14,17 895:2 | fundamentally | 680:4 686:8 | 717:17 721:11 |
| 953:6 | 895:7,10 930:13 | 791:10,11 | 693:15 694:7 | 722:10 727:10 |
| frustrations 708:13 | 930:21 931:12,16 | funds 629:1 | 711:8,12 780:1 | 733:7 743:3 843:1 |
| Fuchs 623:13 632:3 | 932:1 933:6 | fungible 749:12,20 | 809:14 826:22 | 849:12,14,17,20 |
| 632:19 633:4,12 | 937:21 938:3,6,14 | furnished 685:21 | 827:3 831:10 | 856:9 865:22 |
| 633:21 634:6,11 | 938:18 939:5,10 | further 666:7 740:9 | 834:3 842:7 | 866:1 879:4 |
| 634:16 635:5,9 | 939:14,17,21 | 775:22 801:9 | 858:21 879:9 | 885:15,17 891:10 |
| 636:5,12,16,19 | 940:2,8,14,20 | 818:5 822:15 | 885:13 936:5 | 892:19 913:20 |
| 637:2,7,15,18,20 | 941:2,9,15 942:6 | 836:12,21 870:13 | 937:2 939:11 | 923:1 930:16 |
| 638:5,9,13,22 | 942:14,17 943:7 | 938:7 956:9 967:8 | 981:22 993:11,12 | 933:7 936:12 |
| 639:13,20 640:11 | 944:2,12,21 | 967:20 | 996:4 1002:17 | 939:2 960:3 973:9 |
| 640:20 654:10 | 945:14 946:4,14 | furthermore 684:8 | generally 634:4 | 984:11 986:1 |
| 655:1,5,16 656:1 | 946:22 947:4,8,13 | 747:15 821:16 | 722:13 726:3 | 990:3,4,20 994:22 |
| 656:8,15 657:6,17 | 947:17,21 948:8 | 824:13 962:22 | 795:6 849:13 | 995:1 997:2 |
| 658:6,14,22 659:7 | 948:12,17 950:2 | future 629:2 644:22 | 857:22 873:1 | 1004:2 |
| 659:13,18 660:2 | 951:3,14 966:2 | 658:11 673:8 | 908:18 922:20 | given 616:15 |
| 661:16 662:3,14 | 988:1,8 989:11,14 | 759:10 879:10 | 933:22 936:7 | 633:17 639:6 |
| 669:1,12,17,21 | 989:16,20 990:1 | 916:13 960:7 | 993:5 996:7 | 640:14 648:21 |
| 007.1,14,17,41 | 202.10,20 220.1 | 710.13 700.7 | 773.3 770.1 | 040.14 040.21 |
| | | | 1 | 1 |

| | | | | 1490 1020 |
|----------------------------|--------------------|--|---------------------------|---------------------------|
| 650 0 650 0 | 055 1 012 2 | 016 20 010 0 | G 1.761.2 | 001.7 |
| 650:8 658:9 | 855:1 913:2 | 916:20 918:8 | Google 761:2 | 881:7 |
| 664:11 732:12 | goals 625:14 913:6 | 919:1 920:12 | gosh 730:7 744:8 | grow 625:7 629:11 |
| 760:17,19 807:12 | 913:7 964:8 | 921:8,9,17 922:3 | gotten 676:16 | 631:18 698:11 |
| 841:4 848:9 854:2 | goes 666:6 676:5 | 922:15 933:18 | 762:13 842:18 | 846:5 |
| 927:2 935:7,22 | 700:9 712:22 | 934:16,16 935:18 | 929:21 932:19 | growing 603:2,5 |
| 960:6 969:7 | 730:6 764:13 | 936:15 937:16,17 | govern 879:10 | 625:3 630:18 |
| gives 756:16 894:6 | 765:4 801:17 | 939:1 941:13 | governing 622:8 | 709:19 |
| 894:9 936:8 973:7 | 828:11 836:22 | 942:20,22 943:7,8 | government 598:18 | growth 625:9 628:1 |
| giving 653:21 746:2 | 867:12 885:20 | 943:9,11,11 | 762:4 948:1 | 630:7,9,15 631:2 |
| 867:1,6 934:5,6 | 888:21 926:12 | 944:18 946:4,5,6 | 973:17 | 631:19 828:14 |
| 974:7 | 927:4,6,18 938:9 | 946:10,11,17 | governments | 829:16 846:7 |
| glaring 609:20 | 946:2 969:21 | 947:18 949:19 | 952:12 | 971:18 |
| go 601:8 602:12 | going 601:14 | 950:11,13 959:20 | grab 677:13,13 | GTM's 846:8 |
| 604:4 635:12,18 | 602:22 633:10 | 961:13 967:7,22 | grade 755:21 771:4 | guarantee 705:12 |
| 640:8 643:22 | 639:8,18 640:9 | 968:1,2,5,7 | grade-specific | 715:2 774:17 |
| 654:8 656:19 | 641:1,21 646:4,5 | 971:10 981:2,14 | 613:4 | 838:5 839:4 |
| 661:20 670:6 | 646:7 649:22 | 983:14 986:7,17 | gradually 698:14 | 856:19 995:11,12 |
| 674:22 675:2,2,12 | 651:11 653:11 | 990:21 991:16,17 | grain 670:21 | 996:20 997:2 |
| 675:13 676:10,11 | 655:15 659:20 | 995:9 998:2,9 | 672:12 685:19 | guaranteed 619:8 |
| 676:14,14 677:11 | 661:3,16 662:20 | 1000:4,4,14 | 686:9 693:22 | guess 601:15 634:1 |
| 678:1,9 683:5 | 669:10 678:7 | 1003:21 1005:6 | 755:18 758:14 | 634:17 639:2 |
| 704:13 709:15 | 697:8,12 698:11 | 1006:8 1007:5,6 | granddaddy 845:22 | 640:4 641:21 |
| 710:16 719:4 | 699:20 701:16 | 1007:11 | grandfather 694:16 | 645:21 654:13,21 |
| 720:1 724:1 | 704:21 715:22 | gondolas 698:10 | 694:18 | 655:17 665:4 |
| 726:19,20 727:2,2 | 716:2 717:15 | good 602:13 608:22 | grandfather's | 714:15 719:1 |
| 727:17 728:3,4,5 | 718:3,16 719:3 | 623:12 640:5 | 740:20 | 784:4 844:10 |
| 728:15 729:14 | 720:10 721:9,21 | 651:2,3 675:16 | granted 611:8 | 849:11 852:13 |
| 742:12,15,16 | 723:8,11 726:17 | 685:17 689:10 | 965:15 | 853:1 856:6 864:5 |
| 745:2 752:14 | 729:13 730:7,8,22 | 693:8,9 698:7 | granting 647:16 | 866:7 868:1 |
| 757:7 765:5 766:5 | 732:16 734:7 | 704:8 706:16 | granularly 754:1 | 878:20 884:12,14 |
| 766:9,10,12 769:4 | 736:2 747:15 | 718:9 719:5 | graphs 906:6 | 887:2 922:13 |
| 773:4,6 779:6 | 748:20 750:1,7,8 | 720:18 722:14 | grapple 717:2 | 944:6 949:19 |
| 782:2 796:6 800:5 | 751:4,7,7,16,17 | 724:16 741:22 | grappling 740:10 | 984:9 986:20 |
| 801:20 805:5,6,19 | 751:20 752:6,13 | 744:6,10 752:2 | gray 675:20 | 993:4 999:5 |
| 823:19 842:11 | 755:12 759:9,15 | 756:20 764:3 | great 640:17 654:9 | 1000:20 |
| 843:8 851:7 853:8 | 761:14 763:2 | 768:22 769:1,2 | 700:17 708:1,16 | |
| | | The state of the s | | guidance 610:17 |
| 857:7,18,19 | 766:16 767:7 | 770:10,10 780:19 | 719:12 727:19 | 916:19 |
| 864:12 865:4 | 769:21 778:3 | 794:21,22 796:11 | 741:17 751:8 | guide 601:17 881:1 |
| 867:11,17 869:16 | 783:20 787:21 | 796:14 804:16 | 802:1 804:8 | guiding 879:2 |
| 869:19 875:11 | 788:10 791:15 | 814:11 825:18 | 805:15 855:6 | guilty 794:20 |
| 876:21 883:11,21 | 805:14 810:5 | 827:17 835:12 | 925:10 1004:3 | Gulamali 1002:11 |
| 889:15 891:17 | 814:18 818:10 | 842:7 875:8 | greater 660:8,8,14 | guy 979:16 |
| 894:11,16 895:17 | 828:2 842:10 | 878:22 879:8 | 809:3 842:1 | guys 727:4 752:11 |
| 897:15 901:4 | 846:1 848:15 | 880:5 885:9 887:4 | 873:11 | 755:8 760:16 |
| 903:4 906:7,7 | 849:1 852:12 | 927:22 930:6 | greatly 725:20 | 761:3 803:19 |
| 909:2 923:17 | 857:19 858:19 | 932:4 936:18 | 807:3 951:5 | 805:22 843:1 |
| 924:12 925:10 | 859:20 860:4,13 | 951:4,13 956:3 | green 711:11 | 849:2 968:5 |
| 928:14 931:2,5 | 861:10 864:8,21 | 966:1 967:22 | Greg 597:20 670:14 | |
| 934:16 940:15 | 865:3,17,17 867:7 | 968:17 969:17 | 670:17 704:7 | <u>H</u> |
| 941:17 942:4 | 870:10 875:14 | 971:9,20 974:6 | 710:8 716:18 | hair 1007:9 |
| 959:15 970:13 | 877:19 885:1 | 983:5 999:11 | 1002:20 | half 642:17 677:9 |
| 1000:4,11,18 | 886:3,13,14 | 1006:17 | grievances 602:4 | 697:20 733:14 |
| goal 631:10 683:21 | 887:22 889:14 | goodness 761:2 | grips 663:18 | 771:13 895:17 |
| 772:11,13,15 | 897:4,14 907:20 | goods 755:22 763:7 | ground 907:2 | 906:14 972:10,13 |
| 808:6,8 809:1 | 909:4,9 910:17,22 | 763:12,13,16 | group 758:3 981:10 | 984:4 985:11,21 |
| 810:14 818:7 | 912:1,11,13,15 | 769:1 835:1 | groups 819:22 | 1005:11 |
| | I | | I | I |

| | 1 | 1 | 1 | 1 |
|----------------------|---------------------|-----------------------|-----------------------|-----------------------|
| hallways 759:16 | 950:22 959:10 | 1006:1 | 933:9 | holidays 970:6,7,8 |
| 931:22 | 972:15 1002:1 | hearing 596:2,6 | helps 810:4 | Holland 624:4 |
| hand 639:21 640:1 | harder 833:8 | 601:3 602:3 603:1 | Herzig 1001:20 | Home 1005:7,8 |
| 650:20 680:5 | harm 850:1 852:18 | 610:10,13 624:15 | hey 636:8 638:15 | Homewood 827:1 |
| 707:9 938:22 | 852:22 853:1 | 625:16 638:14 | 726:4 752:5 | hone-in 803:2 |
| handle 668:13,16 | 990:22 | 665:11,13,13 | 801:20 854:1 | honest 861:1 |
| 687:9 693:21 | Harrisburg 741:18 | 667:16 668:1 | 942:7 | 896:17 |
| 694:22 698:3,17 | hat 965:9 | 689:14 695:4 | Hi 857:5 | honestly 854:12 |
| 708:20 719:20,21 | hate 865:22 940:15 | 721:19 724:6 | hidden 681:9 | 949:5 |
| 721:3 730:3 | hats 974:9 | 750:17 752:21 | Higgins 1002:7 | Honorable 754:13 |
| 764:18 790:1 | haul 628:1 686:1 | 754:15 755:4 | high 696:8 824:1 | hook 686:1 841:9 |
| 815:16 875:9 | 807:21 834:6 | 769:21,22 770:1 | high-level 607:10 | 861:7 892:22 |
| 956:2,4 | 966:13,15 975:7 | 770:15,16 778:22 | high-quality 826:10 | 924:4 931:15 |
| handling 605:8 | 977:13,14 | 781:13 795:14 | higher 643:12 | hope 604:21 624:17 |
| 637:16 698:17 | hazardous 834:22 | 806:10 848:7 | 676:16 695:9 | 973:21 983:18 |
| 835:6 | head 653:10 681:16 | 866:9,22 884:12 | 703:7 716:8 | 1001:3 1005:22 |
| hands 729:14 760:5 | 681:18 682:3,5 | 933:11 939:6 | 864:12,12 890:11 | 1007:10 |
| hang 984:1 | 688:8,10 714:10 | 974:7 978:13 | 890:15 908:18 | hopeful 1007:3,5 |
| happen 604:11 | 985:1 | 980:19 988:11 | 955:18 975:9,10 | hopefully 610:18 |
| 700:21 711:3 | heading 682:15,19 | 990:3 1001:13 | 987:16 | hopped 795:13 |
| 718:3 726:19 | headlines 831:6 | 1004:19 1005:16 | highlight 835:1 | hopper 672:11,13 |
| 728:6 742:11 | headquartered | 1007:19 | highlighted 685:3 | 676:14 710:6 |
| 744:9 746:1 | 612:2 670:18 | hearings 889:8 | 686:12 910:4 | hoppers 684:13 |
| 747:15 765:12 | headquarters 827:1 | 891:19 964:19 | highly 881:17 | horrible 971:13 |
| 767:7 783:9 | health 772:10,12,18 | 1003:19 | Highroad 597:9,19 | hour 682:1 760:18 |
| 787:13 790:7 | 815:5 | heart 890:12 | 611:16,21 | hourly 682:4 |
| 945:3 969:6 | healthy 964:6 | heat 828:2 | highway 675:21 | hours 651:18 |
| 982:16 | hear 604:21 674:21 | heavily 691:19 | Hillenbrand | 680:22 681:1 |
| happened 647:16 | 695:3 704:9 | 695:10 961:19 | 1002:14 | 684:7,16 688:3,7 |
| 649:7 652:8 | 717:19,22 743:14 | 971:20 | hire 621:14 861:20 | 702:1,1 725:15 |
| 675:11 686:7 | 749:8 757:20 | heavy 769:2 | 861:21 | 728:14 752:22 |
| 699:15 718:11 | 799:12 842:8 | heck 970:12 | hired 929:19 | 753:9 755:16 |
| 736:14 752:4,10 | 855:20 871:14 | hefty 902:14 | historic 947:3 | 758:8,14,16 761:5 |
| 755:6 877:17 | 876:7 981:13 | held 621:15 622:8 | historical 723:21 | 765:10 766:4 |
| 903:18 918:18 | 987:14 988:12 | 692:12 728:13 | 724:1 | 768:16,16 770:6,6 |
| 925:11 930:8 | heard 604:18 605:7 | 771:22 827:2 | historically 727:19 | 800:17 801:10,13 |
| 1000:11 | 632:6 641:4,22 | 953:1 959:16 | 747:19 | 801:14 802:2,4,5 |
| happening 649:16 | 648:5 652:5 655:6 | 976:16 994:12,17 | history 718:8 | 802:8 886:22 |
| 701:22 735:7 | 660:11 663:17 | help 610:18 630:17 | 846:10 858:10 | 888:21 898:19 |
| 736:12,19 764:5,9 | 698:1 701:4,9 | 637:11 658:8,10 | 962:5 963:9 965:9 | 899:11 929:18 |
| 770:1 865:16 | 702:4 704:18 | 702:6 740:14 | 1003:3 | 957:6 958:5,21 |
| 965:4 | 705:17 717:20 | 754:20 756:21 | hit 630:20 656:17 | 976:9 988:11 |
| happens 645:11 | 725:2,2,6 730:20 | 796:12 819:5 | 673:9,11 698:15 | how's 623:16 758:5 |
| 746:4 760:21 | 756:18 762:1 | 840:15 883:17 | 761:6,9 867:1 | 758:5 |
| 850:9 867:12 | 765:8 766:11 | 884:18 934:5,7,13 | 975:22 | huge 696:16 705:21 |
| 950:8 980:14 | 767:5 771:12,19 | 949:16 970:17 | hits 941:20 | 845:7 854:13 |
| happy 632:1 661:3 | 783:9 786:10 | 1001:12 | hold 614:6 703:11 | 871:9 874:10 |
| 673:18 704:4 | 803:5 844:14,18 | helped 709:7 | 709:11 964:15 | 903:12 929:18 |
| 726:21 814:8 | 856:4 877:3 | 724:20 929:12 | 975:22 | 942:13 |
| 874:4 932:16,22 | 886:12,20 893:13 | helpful 601:13 | holding 754:15 | human 665:17 |
| 961:5 981:13 | 925:4 929:15 | 668:4 670:2 688:6 | 755:4 770:15 | humor 913:10 |
| Harbor 978:12 | 930:17,18 949:7 | 717:1 725:6 754:8 | 779:1 781:13 | hump 882:2 |
| hard 664:15 756:9 | 949:21 955:19 | 892:19 933:8 | 974:6 978:13 | hundred 767:11 |
| 756:16 762:22 | 963:18 964:18 | 1004:5 | 985:4,5 | hundreds 952:14 |
| 813:7 830:11 | 967:2,9 970:19 | helpfully 964:16 | holds 621:9 676:22 | 1003:5 |
| 878:11 947:9 | 990:12 1005:10 | helping 788:18 | 677:1 | hunting 970:10 |
| | • | | • | • |

| | | | | Page 1030 |
|-----------------------|------------------------|--------------------------|------------------------|---------------------|
| 1 11 602 1 | 016 5 000 10 | 607.5.600.01 | 650.2 | 064 10 075 6 |
| hurdles 692:1 | 816:5 829:12 | 607:5 608:21 | 650:3 | 864:19 975:6 |
| hurt 872:22 | 851:7 950:19 | 609:13,18 660:8 | inaudible 947:9 | includes 680:8 |
| hurting 873:2,2,3 | 994:2 | 960:14 977:8 | 948:19 992:16 | 820:13 830:21 |
| hydrocarbon 613:7 | impacted 710:5 | 978:4 | inbound 612:13 | 952:11 |
| hypothetical 635:10 | 808:17 936:11 | imposed 605:20 | 613:18 614:17 | including 603:8,13 |
| 720:7 746:5,18,18 | 961:1 | 609:6 683:6 | 615:12 652:19 | 624:4 631:6 646:1 |
| 866:1 879:5 | impacting 606:20 | 690:11 852:18,21 | 672:2 817:11 | 674:5 687:22 |
| hypothetically | 684:20 | 853:2 886:10,19 | 872:3 | 689:21 691:13 |
| 791:1 | impacts 605:11 | 928:7 | incent 720:12 | 692:19 695:16 |
| hypotheticals | 607:6 708:7,12 | imposes 634:2 | 825:12 990:14,16 | 700:2 714:9 771:2 |
| 865:22 | 829:12 928:20 | 832:6 | incenting 729:6 | 771:9 810:10 |
| | 945:20 950:8,10 | imposing 608:12 | 865:5 943:4 | 811:15 813:3,22 |
| l ———— | 950:12 | 927:17 | 991:22 | 814:5,17 815:14 |
| I's 650:10 721:15 | impair 608:11 | imposition 887:1 | incentive 626:2 | 816:5,10 817:2 |
| 846:6 | 644:6 653:20 | 994:2 | 660:4,8 718:20 | 827:11 838:4 |
| ICC 679:14 | impairs 626:10 | impossible 698:1 | 719:3,12 720:17 | 938:18 1001:13 |
| Idaho 671:16,21 | imperative 839:14 | 775:18 | 740:11 743:16 | inclusiveness |
| idea 644:5 652:6 | 937:10 | impractical 698:4 | 750:21 761:8 | 770:16 |
| 694:20 740:10 | implement 608:22 | 776:19 878:21 | 786:12 791:6,8 | inconsistencies |
| 782:15 793:12 | 812:16 813:22 | impression 648:18 | 804:9 853:22 | 604:7 690:14,20 |
| 803:1 804:14 | implementation | 661:2 929:21 | 854:5 859:18 | inconsistent 667:19 |
| 849:11 930:15 | 608:3 609:4 630:4 | impressive 740:21 | 860:11 869:16 | 782:11 953:11 |
| 988:2,12 992:20 | 631:10 664:22 | 741:13 | 903:15,22 904:3 | 973:19 |
| 1003:4 | 953:8,19 962:9 | improperly 840:9 | 907:17 973:7 | inconsistently |
| ideas 632:9 1006:17 | 963:10 965:6,20 | improve 628:10,17 | 987:13 990:9,10 | 782:9 957:1 |
| 1006:17 | implemented 961:2 | 628:18 629:11,11 | 990:22 991:3 | inconvenience |
| identical 641:10 | implementing | 630:11,17,21 | 992:13 | 990:5 |
| identically 998:13 | 630:8 937:12 | 631:11 636:17 | incentive's 719:1 | incorporate 722:20 |
| identifies 836:5 | implicit 709:13 | 661:19 783:1 | incentives 808:17 | 723:2,9 724:3 |
| identify 606:3 | implies 728:12 | 814:21 819:10,14 | 868:6 945:22 | incorrect 837:19 |
| 631:20 820:10 | 882:14 | 913:4 973:8 983:7 | incentivize 645:12 | 838:2 849:3 |
| 985:20 | implying 900:1 | improved 630:20 | 703:3 714:14 | 953:11 957:14 |
| identifying 949:8 | importance 700:21 | 684:1 727:8 | 772:9 773:3 | incorrectly 957:2,3 |
| II 863:16 | 815:5 827:20 | 830:16 846:5 | 832:10 863:19,20 | 958:3 |
| Illinois 612:3 | 835:2 | 954:20 958:8 | 878:15 907:11 | increase 625:20 |
| 662:19 670:19 | important 607:2 | 977:15 | 911:11 912:1,5 | 631:1 633:7,9 |
| 827:1 830:1,4 | 620:12 626:7 | improvement | 915:2 916:5 960:8 | 673:21 674:17 |
| illness 772:18 | 688:20 697:19 | 628:11 820:11 | 992:7 | 687:4 690:22 |
| illustrates 829:11 | 721:20 748:9 | 822:9 | incentivized 903:21 | 711:12,14 714:9 |
| ILTA 771:15 | 755:21 778:11 | improvements | incentivizing | 765:11,13 812:13 |
| 774:15 777:12 | 780:3 807:16 | 637:1 663:20 | 645:15 740:11 | 821:12,14 822:7 |
| 797:2 | 808:12 811:4 | 700:22 822:11 | 859:19 881:14 | 824:2 825:6,9 |
| imagine 699:11 | 812:21 815:6 | 829:3 | 912:19 915:6 | 828:12 830:12 |
| 720:17 845:8 | 823:7,19 826:9 | improving 631:2 | incents 862:21 | 832:13 858:8 |
| 865:21 874:16 | 828:6,21 831:19 | 665:6 782:21 | incident 850:6 | 902:14 905:4 |
| 882:1 | 874:9 875:6 | 832:14 878:1 | incidents 739:7 | 959:13 |
| imbalance 952:21 | 881:13 904:14 | 964:8 | include 687:22 | increased 610:3 |
| 958:16,17 959:17 | 910:13 911:9,14 | in-depth 687:20 | 775:3,16 809:13 | 616:11 625:18 |
| imbalances 812:4 | 912:10 914:1 | 688:12 689:3 | 816:8 823:8,11 | 684:6 690:16 |
| immediately 683:6 | 915:5 937:5 939:4 | in-motion 677:18 | 830:1 834:8 | 695:8 697:16 |
| 851:15 | 945:22 947:3,7 | 677:20 | 836:10 855:16 | 698:14 699:9 |
| impact 606:12 | 950:7 996:9,12 | in-track 969:20 | 906:13 919:9 | 821:12,18 822:4 |
| 615:10 619:10 | 997:17 | inability 691:13 | 962:20 976:2 | 902:12 960:6 |
| 623:8 638:7 684:9 | importantly 690:18 | inaccurate 647:7 | included 628:16 | increases 625:19 |
| 685:1 718:1,4 | 960:17 | inactive 626:8,13 | 673:13 681:10 | 823:15 824:22 |
| 801:4 815:16 | impose 606:15 | inappropriate | 700:5 723:3 | 865:18 964:1 |
| | l * | ** * | | |
| | | | | |

| increasing 772:12 | 765:7 778:12 | infrastructure | integrated 845:4 | 770:13,19 778:20 |
|---|---|---|---|--|
| 826:20 828:17,18 | 779:2,22 780:5 | 605:14 626:18 | intend 624:16 | 906:21 |
| 832:2 867:10 | 798:10 804:18 | 672:16 679:7 | intended 816:4 | internet 1000:18 |
| 869:21 960:18 | 806:19,20 815:19 | 681:12 685:12 | 914:5 932:5 | interplant 840:1 |
| increasingly 774:14 | 820:12 927:8 | 686:21 721:3 | intent 797:11 | interpretation |
| 774:22 | 929:4 930:7 | 780:20 965:18 | intention 774:9 | 784:20 |
| incredibly 889:21 | 944:14 950:8 | 984:10 | intention 774.9 | interpreted 993:2 |
| incremental 862:9 | 963:12 965:16 | inherent 727:20 | 790:20 | interpreted 995.2 |
| incumbent 825:1 | 966:19 968:20 | 958:13 | intentions 794:21 | interruption 614:17 |
| incur 626:22 679:9 | 973:17 1005:10 | inhibit 626:4 | 794:22 796:14 | |
| 681:2 788:19 | 1005:15 | inhibits 626:11 | | interruptions 690:9 813:6 |
| 862:16 | | | interchange 614:13 | |
| | industry's 797:16 | initial 686:6 816:19 | 614:14 615:8 | intertwined 883:5 |
| incurred 621:21 | 973:19 | 964:20 988:18 | 650:9 716:15 | intervening 905:17 |
| 682:15 684:5 | inefficiencies | 989:1 993:7 | 727:18 736:14 | intra-terminal |
| 691:7 734:11 | 626:14 702:21 | initially 686:4 | 739:17 950:11 | 610:3 |
| 735:1 775:1,5 | 727:21 808:15 | 733:8 | interchanged | intrinsic 771:5 |
| 809:6 851:4 | 813:12 885:21 | initiate 610:20 | 637:17 | introduce 623:16 |
| 919:17 | 955:18 960:11 | 689:3 774:3 | interchanging | 826:14 |
| incurring 659:9 | inefficient 727:19 | initiated 633:3 | 638:18 639:4 | introductions |
| 878:13 886:16 | inevitably 651:16 | 672:8 | 740:2 | 827:14 |
| 899:6 | 690:16 751:12 | initiates 613:2 | interest 627:18 | inventories 812:12 |
| incurs 687:3 | inference 663:14 | initiating 689:2 | 629:6,18 643:22 | inventory 816:4 |
| independent 966:12 | influence 653:15 | initiative 683:22 | 648:2 662:2,5 | 817:9 818:18 |
| indicate 917:9 | inform 607:11 | 819:17 | 731:18 732:3 | inverse 865:16 |
| 979:22 | 938:17 | inner 771:7 | 744:21 808:1 | invest 715:15 721:9 |
| indicated 647:11 | informal 837:20 | innovation 827:11 | 813:1,10 814:3 | 864:11 984:9 |
| 732:8 | 839:2,19 918:16 | innovations 771:21 | 944:3,7 965:11 | invested 685:11 |
| indicator 756:8 | informally 920:7 | innovative 812:16 | 1007:14 | 830:6 961:18 |
| indicators 759:6 | information 605:3 | inordinate 703:16 | interested 715:12 | investigate 648:22 |
| indirect 773:6 | 611:4 631:4 | input 739:3 | 907:16 917:17 | 709:2 839:7 |
| individual 651:12 | 640:14 647:11 | inputs 649:15 880:8 | interesting 601:12 | 924:20 |
| 668:10 683:8 | 649:8 650:1 | inquiries 621:1 | 642:15 722:3 | investigated 620:7 |
| 809:16 820:21 | 722:10 725:4 | 680:2 923:14 | 723:7 750:3 | 700:4 |
| 858:18 876:20 | 732:15 734:1 | inquiry 807:12 | 755:11 764:9 | investigating |
| 877:10 879:11 | 736:13,13,17,20 | inside 676:10 678:8 | 843:10 872:21 | 925:15 |
| 881:4,4,5,10 | 739:17,19 764:12 | insisted 976:15 | 908:5 909:8 | investigation |
| 884:2 886:1 | 775:11 777:6 | inspection 834:8 | interests 662:7 | 623:10 648:15 |
| 889:22 918:18 | 792:3 793:6,7 | inspector 969:21 | 950:6 | 687:20 688:12 |
| 920:3,22 934:19 | 805:18 806:19 | installed 677:18 | interim 646:14,15 | 689:4 925:16 |
| 934:20 935:12 | 810:1,12 811:14 | instance 853:21 | interior 931:21 | investigative 611:8 |
| 945:8 | 817:3,12 820:18 | 860:5 892:6 | interline 640:2 | investing 629:1 |
| individually 635:20 | 837:4,5 849:3 | instances 657:3,9 | 950:12 | 698:10 699:4 |
| • | | | | |
| 878:9 | 856:21 870:13 | 819:5 841:11 | intermediaries | 709:3 715:20 |
| 878:9 individuals 773:4 | 856:21 870:13 878:7 891:9,16 | 819:5 841:11 instant 702:3 | intermediaries 785:11 788:3 | 824:22 830:10 |
| 878:9 individuals 773:4 846:17 | 856:21 870:13 878:7 891:9,16 892:19 904:11 | 819:5 841:11 instant 702:3 instantaneous | intermediaries | 824:22 830:10 investment 699:11 |
| 878:9 individuals 773:4 846:17 industrial 689:12 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 | 819:5 841:11 instant 702:3 instantaneous 747:14 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 | 824:22 830:10 investment 699:11 705:8,22 706:15 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 | intermediaries 785:11 788:3 intermodal 846:18 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 |
| 878:9 individuals 773:4 846:17 industrial 689:12 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 | 819:5 841:11 instant 702:3 instantaneous 747:14 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 1005:1 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 industry 603:3,12 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 1005:1 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 institutions 965:14 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 internally 634:20 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 718:2,15 720:9,12 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 industry 603:3,12 613:13 648:13 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 1005:1 informative 601:11 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 institutions 965:14 instruction 836:18 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 internally 634:20 642:9 677:13 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 718:2,15 720:9,12 720:15,18 721:22 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 industry 603:3,12 613:13 648:13 649:5 674:4 679:4 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 1005:1 informative 601:11 695:3 754:8 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 institutions 965:14 instruction 836:18 instructions 616:8 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 internally 634:20 642:9 677:13 816:18 856:12 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 718:2,15 720:9,12 720:15,18 721:22 725:1 760:2 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 industry 603:3,12 613:13 648:13 649:5 674:4 679:4 685:7 686:16 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 1005:1 informative 601:11 695:3 754:8 889:11 1001:2 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 institutions 965:14 instruction 836:18 instructions 616:8 insufficient 605:4 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 internally 634:20 642:9 677:13 816:18 856:12 international 596:7 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 718:2,15 720:9,12 720:15,18 721:22 725:1 760:2 829:20 864:13 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 industry 603:3,12 613:13 648:13 649:5 674:4 679:4 685:7 686:16 697:21 703:14 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 1005:1 informative 601:11 695:3 754:8 889:11 1001:2 informed 926:10 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 institutions 965:14 instruction 836:18 instructions 616:8 insufficient 605:4 insurance 765:14 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 internally 634:20 642:9 677:13 816:18 856:12 international 596:7 597:7 598:10,14 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 718:2,15 720:9,12 720:15,18 721:22 725:1 760:2 829:20 864:13 904:13 949:3 |
| 878:9 individuals 773:4 846:17 industrial 689:12 700:6 786:20 industries 694:6 760:16 industry 603:3,12 613:13 648:13 649:5 674:4 679:4 685:7 686:16 697:21 703:14 711:8,10 721:2 | 856:21 870:13 878:7 891:9,16 892:19 904:11 907:21 919:5 927:12 936:1 939:8 998:11,12 999:4,7 1004:3 1005:1 informative 601:11 695:3 754:8 889:11 1001:2 informed 926:10 941:6 | 819:5 841:11 instant 702:3 instantaneous 747:14 Institute 694:6 instituted 848:2 973:18 institutions 965:14 instruction 836:18 instructions 616:8 insufficient 605:4 insurance 765:14 insured 825:7 | intermediaries 785:11 788:3 intermodal 846:18 906:21 983:13 internal 628:13 631:7 634:2 648:15 906:2 internally 634:20 642:9 677:13 816:18 856:12 international 596:7 597:7 598:10,14 598:17 602:11 | 824:22 830:10 investment 699:11 705:8,22 706:15 708:21 709:21,22 710:10,15,20,22 711:1 717:13,13 718:2,15 720:9,12 720:15,18 721:22 725:1 760:2 829:20 864:13 904:13 949:3 investments 603:6 |

| #05.40.020.22 | 501.11.5 05.10 | T 001 674 44 | 7 00 0 000 13 | 500 15 500 55 |
|------------------------------|-----------------------------|------------------------------|-----------------------------------|---------------------------------------|
| 705:18 829:22 | 781:14 785:18 | Jeff's 654:14 | 799:8 800:13 | 723:17 739:22 |
| 949:18 962:18 | 797:21,21 800:17 | Jeffrey 597:4 | Kathy 599:16 | 745:7 746:8,17 |
| investors 631:8 | 800:17,20 801:2 | 602:10 | 825:17,20 827:16 | 749:13 752:19,20 |
| invests 829:16 | 806:16 817:6 | Jennifer 1002:15 | 827:17 886:9 | 755:5,11,12 |
| invoice 634:15 | 820:8 839:5,22 | Jersey 612:6 | 911:7 916:22 | 758:16,18 764:9 |
| 648:14,17,20 | 854:17 861:11 | Jill 599:4 807:7 | 917:12 920:11 | 772:21 773:11 |
| 649:15 817:22 | 871:20 872:1 | 854:20 857:20 | 928:15 950:2 | 774:10,11 795:13 |
| 818:15 824:12 | 889:3 912:9 927:3 | 897:18 901:5 | Kathy's 882:18 | 803:5 853:3 |
| 836:22 837:11,13 | 928:22 929:1 | 923:6 | KCS 624:20 625:10 | 863:17 868:9 |
| 838:6,14,16,18 | 961:12 970:4,5,8 | Jill's 880:8 948:17 | 625:14,17 626:3 | 876:10 878:19 |
| 839:21 840:6,8 | 982:9,10 999:22 | job 625:14 694:6 | 628:10,10,21 | 893:12 924:19 |
| 855:14,19 872:2 | 1000:19 | 718:9 744:10 | 629:4,18 630:8 | 926:6 929:3 933:6 |
| 912:4 919:18,21 | issued 808:10 | 763:14 969:17 | 632:6 634:1 | 933:9 935:18 |
| 920:10 927:4,6 | 810:10 928:18,18 | 971:9,12,13,20 | 635:21 641:5,8 | 938:10 940:9 |
| 928:18 957:8 | issues 602:6 604:10 | 974:12 979:20 | 647:15 650:8 | 945:4 948:5 |
| invoiced 818:8,12 | 641:7 652:17 | 983:5 1003:20 | 660:12 721:16 | 979:21 984:11,20 |
| 837:7 838:3 955:7 | 661:4 685:5 686:3 | 1004:12 | 889:9 1007:7 | 988:18 994:16 |
| invoices 767:17 | 686:14 690:10 | John 600:7 961:7,9 | KCS's 635:6 | 996:1 998:9 |
| 775:15 816:7 | 692:2,11 693:5,13 | 979:15 1002:18 | KCS-induced 629:9 | 1000:8 1006:4 |
| 821:1 822:12 | 696:1 701:20 | join 974:20 | Keats 1002:18 | Kinder 783:8 914:2 |
| 836:15,16,20 | 721:19 722:8 | joined 827:2,9 | keep 656:1 667:16 | 914:4 |
| 837:3 839:5,15 | 733:13 747:20 | joining 624:1 | 715:7,7 735:14 | kinds 757:4 769:20 |
| 840:13,19 847:18 | 756:4 764:22 | joint 813:10 | 763:6 798:22 | 788:19 996:10 |
| 877:15 878:12 | 771:12 787:19 | joking 981:8 | 806:11 867:2,9 | Klem 1002:14 |
| 912:6 918:19 | 795:13 801:5 806:8 818:2 | Jon 1002:11 | 871:18 882:8 909:3 | knew 712:5 717:12 |
| 928:9 957:21 958:9 967:11 | 822:18 824:11,12 | Jones 1001:20 Josh 783:10 | | know 605:2,20,21 632:4,8,13,14 |
| invoicing 814:17,20 | 839:8 854:16 | Joshua 795:17 | keeping 839:3 909:7 970:12 | 633:22 634:12,18 |
| 817:5 819:4 | 871:22 878:11 | judge 885:1 999:16 | keeps 957:16 | 635:9,11 636:8 |
| 836:16 838:12 | 881:5,9 883:14 | judging 876:15 | Keith 599:14 815:3 | 639:2,4 640:4,13 |
| 839:14 847:11,13 | 953:7,16,22 | judgment 614:2 | 827:5 914:19 | 640:18 646:11 |
| 847:17,18 917:21 | 963:17 969:10 | 638:12 | 917:20 | 650:14,16 651:6,9 |
| 958:8 | 981:2 1002:1 | Judy 1002:18 | Ken 966:7 988:2,17 | 651:14,18 652:3 |
| involved 638:12 | 1003:4 1005:12 | Julie 1002:18 | 998:18 | 654:13 656:17,18 |
| 687:18 774:22 | 1006:14 | July 696:9 | Kenny 731:5 | 656:19,21 658:1,8 |
| 856:1 892:5 | item 817:18 878:5 | jump 842:21 | 958:18 | 658:10 659:20 |
| 921:20 | items 845:19 | 849:10 863:14 | Kent 600:10 965:22 | 660:3,5,6,9 661:6 |
| involves 820:3 | its' 642:11 | 905:1 940:4 | 974:4 980:2 982:1 | 661:19 664:8,18 |
| 828:20 940:5 | IV 874:17 | June 602:6 1003:8 | 984:3 993:6 | 664:21,21 665:4,4 |
| Iowa 670:13,17 | IWLA's 779:11 | jurisdiction 618:11 | Kenyatta 1001:19 | 665:7,8 667:2,10 |
| 671:2 676:6 715:7 | IX 597:16 670:3 | 736:5 | key 603:18 690:7 | 669:20 680:19 |
| 721:1 | | jury 999:17 | 756:7 807:14 | 682:16 689:7 |
| Ipsis 847:5 | J | justification 607:17 | 819:22 820:17 | 697:22 700:7,21 |
| ironed 786:4 | J 597:8 | 608:12 784:7 | 890:12 968:9 | 704:9 705:3,20 |
| irrelevant 859:8 | jacket 624:21 | justify 660:10 | kick 632:3 670:7 | 706:1,5,8,10 |
| 884:21 | Janie 1002:8,8 | 681:11 778:5 | kicker 787:17 | 707:8,9,15 710:1 |
| isolated 685:5 | January 616:5 | | Kim 1002:13 | 710:19 712:18,19 |
| 686:14 | 673:13 678:16 | K | kind 607:12,15 | 712:22 713:2 |
| isolation 821:17 | 696:4,6,8 697:16 | K 599:4 | 632:10,10 638:20 | 714:11,12,21 |
| issuance 817:22 | 732:12 849:4,7 | Kansas 597:12 | 639:20 651:13 | 715:11 716:4 |
| issue 651:6 653:2 | 900:15,19,22 | 602:10 623:18 | 655:8 658:10 | 717:2,11,18 718:4 |
| 664:16 679:15 | 906:15 955:6 | 624:1 625:11 | 704:19 705:12 | 718:10,19 719:10 |
| 696:12 717:8 | Jeff 602:11 611:13 | Katherine 1002:6 | 709:11 710:8 | 720:1,8 722:12 |
| 731:8 747:21 | 651:5 653:4 658:7 | Kathryn 598:15 | 711:16 717:2 | 723:1,7,8,10,12 |
| 751:3 771:16,17 | 660:17,18,18 | 770:9 778:16 | 718:15,15,17 | 724:22 725:1 |
| 775:19 778:12 | 663:15 1001:20 | 783:3 795:10 | 721:1,18,19 723:6 | 726:2,11,18 728:1 |
| | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| | | | | |

| | İ | İ | I | i |
|-------------------|-------------------|---------------------|---------------------------|---------------------------|
| 729:11 730:7,8,20 | 903:15,20 906:4 | 1000:7 | 947:3 | 915:11 |
| 730:21,22 731:11 | 908:20 910:16 | lacking 607:6 | lawfulness 611:10 | left 654:11 677:1 |
| 732:13 736:13,18 | 912:14,17 913:10 | 806:20 | Laws-Byrum | 731:1 777:20 |
| 739:2,11 740:10 | 914:13 921:1 | lacks 688:2 776:20 | 1001:21 | 794:17 954:18 |
| 740:22 741:10,16 | 923:13 924:10 | ladder 749:1 | lawsuit 914:2 | left-hand 676:12 |
| 742:11 744:21 | 925:13 926:3 | 967:13 | 927:21 | legal 598:3,19 |
| 746:8,21 748:8 | 927:18,20 929:14 | lady 730:2 742:9 | lawyer 662:18 | 662:18 689:11 |
| 749:14,15,18 | 930:8 931:10,11 | laid 913:6 937:20 | 796:17 921:9 | 876:10 921:12,13 |
| 750:2,6,22,22 | 932:18 933:7,9,13 | 992:18 993:6 | 946:18 | 921:17,20 922:10 |
| 751:1 752:5,6,8 | 933:19,21 934:4,4 | Lakeville 671:3 | lawyers 922:4 | 925:18 1004:10 |
| 752:18,21 753:6,7 | 935:21 937:4,22 | LAL 671:5 | lay 938:4 | legitimate 626:16 |
| 753:8,8,17,19,20 | 938:7,9 940:8,9 | lamb 981:9 | laying 872:17 | 984:14 |
| 755:3 757:8,20 | 940:12,16 941:13 | land 674:15 | LCRA 953:21 | length 996:16 |
| 758:18,21 760:6 | 942:18 943:2,8,11 | landlocked 741:20 | lead 674:10 675:17 | lengths 741:17 |
| 763:1,18,19,22 | 943:15 944:11,13 | landscape 670:13 | 675:19 818:21 | 925:10 |
| 764:7 766:1,3,4 | 944:22 947:11,11 | language 797:4 | 874:16 | lengthy 1003:18 |
| 766:12,13 767:7 | 947:12,22 948:1,8 | 836:9,9,10 839:9 | leader 613:13 | lens 948:3 |
| 768:18,21 781:7 | 949:1,4,6,13,17 | 848:20 923:18,20 | 1002:18 | lesser 644:4 |
| 782:11 784:17 | 968:22 970:19 | large 606:18 627:1 | leadership 817:2 | lessor 658:1 |
| 785:16 789:13,13 | 971:3 972:9,21 | 627:2 642:19 | 1004:4 | let's 726:18 737:15 |
| 789:15 790:9 | 979:4 980:13 | 649:9 782:6 | leading 689:20 | 742:5 746:4,5 |
| 793:10,14 795:10 | 981:2 982:16,21 | 804:20 805:5 | 731:13 818:21 | 761:7 806:12 |
| 795:16,19 796:4 | 983:1,15 988:11 | 823:3 854:13 | leads 827:7 | 868:3 898:21 |
| 796:16 797:14,14 | 988:12,16 990:2,4 | 940:6 963:2 | League 600:3 951:8 | 901:4 906:5 |
| 799:16 800:1,3,14 | 990:20,21 991:2,3 | 964:19 | 951:18 974:17,20 | 931:18 940:14 |
| 803:4,7,9,10,14 | 991:8 992:2,19,22 | largely 771:6 821:3 | leaking 834:22 | 994:11 |
| 803:15 804:14,16 | 993:4,17 994:3,7 | 828:7 848:7,14,14 | learn 969:5 | Lethbridge 689:19 |
| 805:1,11 806:17 | 994:8,8,12,15 | 906:2 | learned 967:4 | letters 1006:11,12 |
| 822:14 831:7 | 995:8 996:6 997:8 | larger 711:9,14,15 | learning 978:20 | letting 933:9 |
| 840:6 841:9 842:1 | 998:11,18,19 | 712:12 780:22 | lease 604:3 643:5,7 | level 657:4,11 |
| 842:8 843:10 | 999:14 1000:1,13 | largest 603:3 | 643:12,15 644:1 | 816:20 867:2 |
| 844:9,17,21 845:3 | 1000:14,15 | 613:14 782:7 | 644:15,20 659:4 | 869:21 886:5 |
| 846:1 848:21 | 1001:3,17 1004:3 | 846:7 963:5 | 659:10 699:20,21 | 929:7,8 930:7 |
| 849:22 850:13 | 1004:7,9,16,16 | 966:12 | 699:22 703:5 | 936:12 943:19 |
| 853:3,13,14,16 | 1005:4 1006:2,12 | Las 701:21 | leased 659:21 | 964:11 |
| 854:1,4,9,14,15 | 1006:21 1007:9 | lastly 606:5 814:22 | 695:14 699:8 | level-headed |
| 854:20 855:7 | knowing 855:3 | 973:21 | leases 699:19,21 | 1007:11 |
| 856:6,6,8,13 | knowledge 652:7 | late 601:5 652:16 | leasing 627:9 | levels 696:8 817:1 |
| 860:16 863:16 | 686:8 767:1 | 681:1 684:7 688:3 | | 840:14 |
| 864:6,6,7,17 | knowledgeable | 688:7 706:22 | 763:11 961:19 | levied 775:9 |
| 865:15 866:4,7,7 | 812:8 | 708:7 710:2 | leave 642:22 645:9 | liability 622:11 |
| 866:8,21 867:8 | known 817:19 | 797:22 939:2 | 645:16,17 681:13 | 779:21 781:20 |
| 868:1 869:12,15 | 862:5 976:16 | 958:5 960:2 991:7 | 682:7 707:9 | 782:16,19,20 |
| 869:18 871:3,14 | knows 769:16 | 994:14 999:10 | 713:10 770:4 | 920:15 922:21 |
| 872:5,10,15,18,18 | T | laughing 948:19 | 776:16 801:18 | 923:9 924:2 |
| 872:19,21 873:1,3 | <u>L</u> | launch 623:9 | 852:12 868:4 | liable 622:8 799:21 |
| 873:5,12,15,17 | la 975:5 977:11 | 687:20 | 933:11 | 917:1 918:9 |
| 874:10,22 875:5 | 985:14,15 986:6 | Laura 1002:14,15 | leaves 937:14 | 920:18,20 921:7 |
| 876:10,13 878:18 | labor 681:3 684:6 | law 620:9,10 663:1 | 957:17 | licenses 965:14 |
| 879:19,20 881:21 | 688:7 703:7 713:1 | 663:9 793:12 | leaving 688:13 | life 664:2 694:22 |
| 883:12,16,18 | 782:8,9,12 797:21 | 860:14 861:2,4 | 907:1 | 762:21 |
| 884:5 885:14 | lack 604:9 607:2 | 877:8 878:19 | led 692:17,17 | LIFO 748:2,8 |
| 886:13 887:3,12 | 775:10,11 792:3 | 910:18 912:16,18 | 708:18 819:22 | LIFO/FIFO 749:9 |
| 887:13,15,19,21 | 801:5 854:3 | 916:18 917:4 | 1003:17 | lift 816:16 |
| 888:6,9,10 891:18 | 953:14 958:13 | 918:3,10 922:17 | Lee 1001:21 | light 601:19,19 |
| 891:21 894:12,20 | 978:19 990:10 | 923:10,10,11,16 | leeway 842:1 | 664:12 731:8,19 |
| | <u>'</u> | 1 | 1 | · |

| | | | | 1490 1031 |
|----------------------------|-------------------|---------------------|----------------------------|--------------------------|
| 721 22 000 12 | 651 7 657 10 | 062 20 076 21 | 760 17 760 1 | 0.45.2 |
| 731:22 809:12 | 651:7 657:10 | 962:20 976:21 | 768:17 769:1 | 945:2 |
| 960:9 1006:14 | 676:16 689:15 | 977:6 | 815:20 868:12,13 | loop 962:21 |
| lighten 645:1 | 694:17 695:22 | loads 677:2 756:19 | 868:14 877:7 | Lorenzo 612:3,5 |
| lights 601:16 | 707:7 712:22 | 758:17,18 768:7 | 895:5,19 896:22 | 613:11 |
| 1001:14 | 714:4 718:14 | 769:2,4 830:16 | 897:5 900:8,10 | lose 943:8 |
| likeable 726:14 | 722:10 723:14 | 986:12,14 | 909:14 910:9 | losing 946:19 |
| limit 620:18 679:20 | 755:3,6,13 765:14 | local 684:10 685:18 | 915:17 930:9 | loss 611:2 615:20 |
| 807:13 831:1 | 767:11 772:4,5 | 756:20 809:16 | 936:17 964:18 | 621:15 942:20 |
| 857:12 916:13 | 779:6 785:16 | 816:13,14 817:10 | 975:22 976:4 | 943:1,3,9,12,19 |
| 977:21 | 800:13 821:1 | 862:11 926:17 | 980:8 1000:12 | 944:4,5,6,10,10 |
| limited 615:7 | 843:16 863:17 | 952:11 | longer 608:19 687:9 | 944:13,14 947:2 |
| 775:17 790:5 | 864:17 866:12 | locally 950:9 | 716:2 735:14,19 | lost 618:7 684:16 |
| 956:9 957:14 | 892:19 901:10 | located 686:4 | 764:6 811:20 | 688:7 709:1 874:6 |
| 966:9 977:20 | 903:3 905:18 | 689:17 700:18 | 833:12,13 838:21 | 889:5 899:8 |
| 997:20 | 912:12 938:1,13 | 720:22 976:8 | 857:13 892:14 | 934:18 |
| limiting 780:20 | 962:6 966:11,18 | locating 613:8 | 945:20 | lot 604:5 635:10 |
| limits 604:14 | 967:7 970:20 | 721:2 | longer-term 646:16 | 650:17 652:14 |
| line 626:6,10 628:1 | live 810:19 | location 606:17 | look 602:21 607:8 | 655:3,6 660:3 |
| 675:17,19 676:4 | lived 831:8 | 614:2,9 840:5 | 611:11 625:12 | 661:4 663:17 |
| 676:15,19 678:1 | Livonia 671:3 | 858:18 986:22 | 631:9 641:4 | 664:8 705:17 |
| 710:14 755:12,14 | LNG 613:7 | 1001:13 | 645:21 647:22 | 706:16,20 714:13 |
| 807:21 834:6 | load 684:13 720:4 | locations 614:7 | 659:15 664:14 | 717:7 725:20 |
| 835:4 864:14 | 756:3 757:18 | 811:21 882:7 | 693:5 701:14 | 727:21 732:12 |
| 871:8 877:7 878:5 | 763:22 773:19 | locked 969:8 | 707:14 723:20 | 744:5 749:10 |
| 889:13 897:15 | 801:22 831:18,19 | locomotive 666:17 | 739:6 748:13,17 | 752:12 754:4 |
| 903:19 975:7 | 832:10,16 833:17 | 681:17 874:17 | 752:20 767:21 | 757:1 762:2 764:3 |
| 977:13,14 983:20 | 878:14 888:20 | 969:8,9,10 972:7 | 768:4,4,5,5,6,8 | 765:9 779:4 782:1 |
| 986:3 | 911:11 913:3 | 972:11 984:16,16 | 779:21 795:16 | 786:10,18 787:9 |
| linear 871:5 | 914:16 915:2,8 | 984:18,19,21 | 805:19,21 821:16 | 794:11 800:16 |
| lines 676:10 807:11 | 916:5 951:1 998:3 | 985:3 | 853:14 859:6 | 804:21 811:5 |
| 819:13,18 925:15 | load-out 962:21 | locomotives 626:19 | 861:5,16,20,22 | 841:14 842:19 |
| link 771:1 | loaded 616:7,11 | 665:18 666:6,9 | 862:3,9,11,18 | 843:12 845:1 |
| linked 868:6 993:6 | 617:2 677:15 | 667:7 681:14,15 | 868:19 873:5 | 854:14 855:22 |
| liquid 598:14 | 678:20 688:15 | 681:21 682:7,9,12 | 875:7 879:20 | 856:5 871:7 |
| 770:13,19,21 | 789:17 790:8 | 688:14,20,21 | 881:18 887:1 | 872:10 875:6 |
| 771:2 | 811:7 815:15 | 701:15 713:6,11 | 889:21 906:5 | 881:21 885:11 |
| Lisa 1002:20 | 830:13 831:20 | 871:10 874:15 | 935:17,20 941:13 | 886:12 903:10,11 |
| list 1001:16 | 892:12 894:7 | log 818:12 871:22 | 978:20 983:2 | 903:11 904:15 |
| listed 1004:13 | 913:1 950:17 | 927:2 | 985:13 1001:17 | 905:3 908:16 |
| listen 636:8 714:15 | 958:20 | log-in 817:6 871:20 | looked 676:13 | 927:3,5 928:9 |
| 731:11 751:7 | loading 616:14,16 | logged 818:14 | 821:13 919:6 | 936:3,18 941:11 |
| 843:19 871:3 | 616:20 619:18,19 | logging 768:5 | 985:21 | 945:3,17 948:4 |
| listened 767:15 | 621:22 622:6 | 805:22 | looking 601:10 | 949:1,7,22 966:15 |
| listening 704:3 | 655:8 680:16 | logic 992:9 | 647:14 665:9 | 967:1,9,10 969:22 |
| 842:2,14 843:18 | 687:6,8 729:1 | logical 663:15 | 732:13 754:1 | 970:19 983:4,6,8 |
| 872:14 930:19 | 745:11 750:8,11 | 701:5 1006:9 | 794:18 844:1 | 986:4 987:16 |
| 931:12 968:6 | 795:4 797:22 | logistics 598:10 | 848:5 861:17 | 996:5 1000:5 |
| 1001:4 | 808:12 829:15 | 638:1 761:22 | 862:20 864:16 | 1002:22 1005:11 |
| listing 763:4 | 831:17 832:8,14 | 769:5 771:7 779:7 | 867:13 868:9,11 | 1006:17 |
| litany 603:13 | 833:7,10 849:15 | 779:13,22 781:1 | 869:15 871:5 | lots 726:10 728:13 |
| litigate 724:17,19 | 850:21 871:13 | 815:9 966:10 | 901:2,15 902:20 | 728:14 730:14 |
| litigation 774:18,22 | 872:22 873:6 | 997:21 | 908:12 935:1 | 755:19,19 756:3 |
| 860:19 877:12 | 881:14 882:14 | long 676:10 705:3,7 | 948:3 994:8 | 782:9,10 |
| 918:15 919:2 | 884:8 893:7 | 705:21 706:7 | looks 675:12 676:16 | love 762:5 767:20 |
| litter 689:22 690:1 | 898:11 900:15 | 707:20 710:22 | 812:10 817:10 | 972:14 |
| little 607:5 645:21 | 912:3 959:10 | 727:16 760:18,19 | 864:13 928:9,20 | low 626:1 780:15 |
| | | | ĺ | |
| | | | | |

| T | | | | 1490 1000 |
|-----------------------|-----------------------------|----------------------|-----------------------|--------------------|
| 024 4 0 60 17 | 022 10 041 10 | . 702.10 | | 702 11 007 20 |
| 824:4 968:17 | 822:18 941:19 | margin 702:18 | maximize 627:15 | 782:11 807:20 |
| 984:1 | making 621:17 | marginal 893:19 | 827:21 828:21 | 844:20 854:5 |
| Lowell 598:18 | 632:22 655:22 | Mariam 598:3 | 881:15 884:6 | 864:21 865:5 |
| 778:17,20 785:2 | 662:4 717:12 | 689:8,10,11 722:2 | 887:19 913:2 | 896:3 915:4 |
| 803:2 | 740:14 751:5 | 722:6,16 723:16 | maximizing 807:20 | 975:17 976:17 |
| lower 657:11 | 759:16,16 766:16 | 723:22 724:10,14 | 884:8,9 | 990:7 |
| 659:22 854:5 | 787:15 798:13 | 724:18 732:15,21 | maximum 635:17 | meant 774:11,11 |
| 873:12 951:16 | 809:4 825:4 844:3 | 733:3,8,17,21 | 702:17,20 832:19 | 882:10 979:4 |
| 956:20 968:9,10 | 853:9 856:2 | 734:9,12,17,21 | mean 609:12 635:2 | 986:16 993:3 |
| 973:9 | 875:16 927:22 | 735:9,16 736:4,9 | 639:17 641:9 | 1005:5 |
| Lowery 1001:22 | 934:20,21 943:20 | 737:3,6,11,19,22 | 645:17 646:20 | measurable 759:8 |
| lowest 988:3 | 943:21 988:2,5,7 | 738:6,12,21 | 647:6 649:18 | measure 665:10 |
| Lucy 1002:9 | manage 691:20 | 739:10 740:3,7,16 | 653:8 654:17 | 803:11 820:7 |
| Lucy's 1002:6 | 710:6 730:9 | 744:22 745:22 | 658:6 709:13 | 988:14 989:2 |
| Lumberton 612:11 | 812:12 818:15 | 746:1,21 | 710:11 711:3 | measurement |
| 612:20 | 872:2 936:19 | Maricold 785:2 | 715:20 717:8 | 804:10 |
| Lumberton's | 941:19 945:9 | market 613:8 | 723:10 727:10 | measures 814:19,20 |
| 612:17 | 954:8 961:17 | 671:19 674:11 | 730:4 747:1,4,15 | 815:22 816:8 |
| lumped 972:11 | managed 611:21 | 703:16 780:14 | 753:19 756:6 | 818:12 996:5,8,12 |
| | 672:12 764:19 | 874:15 963:22 | 767:12 768:11 | 996:15 |
| M | 1001:6 1003:18 | marketing 597:14 | 777:6 784:6,7 | measuring 868:7 |
| Madam 693:8 | management 707:3 | 611:17 623:18 | 787:5,5 800:14 | mechanical 882:2 |
| Madame 778:18 | 712:4 776:2 | 809:20 827:12 | 801:11,12 802:3,4 | mechanism 628:3 |
| magic 661:7 | 792:10 815:6 | marketplace 607:7 | 802:5 803:10 | 815:21 909:14 |
| magnitude 640:9 | 820:16 964:16 | 625:21 813:5 | 832:18 841:20 | 910:10 995:15,20 |
| 941:4,5 | manager 597:10,21 | markets 747:9 | 844:14 847:18 | 997:3 |
| main 596:6 626:6 | 598:7 599:14 | 862:5 961:14 | 853:9 854:22 | mechanisms 809:7 |
| 626:10 676:4,9,19 | 611:17 652:19 | marriage 1007:2 | 856:11 864:7,22 | 810:9 816:3 |
| 678:1 970:1 | 670:11,15 693:15 | marry 769:22 | 868:5 879:8 882:5 | mediators 778:8 |
| 971:14 982:12 | 694:7 768:5 819:5 | Mars 831:8 | 886:15 887:3,7 | meet 624:8 630:18 |
| maintain 680:14 | 826:22 827:5,11 | Marty 863:14 | 902:4,10 903:12 | 761:12 824:22 |
| 683:17 776:2 | 827:12,12 831:10 | 991:20 1002:3,19 | 903:14 904:8 | 828:4 838:11 |
| 815:7 819:13 | managers 819:1 | 1004:1 | 906:10 907:10 | 863:11 952:22 |
| 826:19 962:16 | managing 612:12 | Marvin 1002:9 | 909:4 910:15 | 959:5 963:1 |
| 963:2 982:19,19 | 765:18 872:9 | massive 949:3 | 923:17 924:10 | 995:22 996:22 |
| maintained 656:6 | 966:8 1002:10 | master 827:3 966:9 | 925:18 934:1,22 | meeting 626:10 |
| maintaining 830:10 | mandated 913:20 | match 889:1 901:3 | 937:6,8 938:9 | 960:19 |
| 969:18 971:9 | mandates 911:15 | material 690:1,3 | 939:18 940:21 | meetings 820:17 |
| 983:5 | manifest 672:1 | 757:22 954:1 | 943:11,16 944:13 | 1006:20 |
| maintenance | 704:15,16 706:2 | materials 613:18 | 944:17 946:2,11 | meets 674:6 |
| 618:15 829:3,4 | 720:2 888:1 | 615:12 694:4 | 946:12 947:22 | melt 694:4 |
| 964:12 969:17 | manner 731:18 | 713:1 771:4 | 982:21 983:18 | member 603:2,17 |
| 971:11 976:14,19 | 882:6 | 834:22 1004:7 | 984:15 985:18 | 605:17 664:17 |
| 983:4 | 882:0 mantra 625:8 630:6 | | | |
| | | math 946:17 | 991:22 994:18 | 693:10 694:5 |
| majeure 923:19 | 845:5 888:16 | matter 605:16 | 995:6 999:22 | 770:12 779:8 |
| 924:6 | manual 836:20 | 618:4 636:3 663:9 | 1004:21 | 780:6 783:10 |
| major 603:11 | manually 836:18 | 664:3 768:17 | meaning 621:1 | 922:6 951:14,19 |
| 605:17 608:19 | manufacturers | 886:15 919:2 | 680:2 702:2 | 954:17 955:7,9 |
| 614:13 623:1 | 689:20 694:3 | 938:2 | 748:14 | 957:4,7,9,15,16 |
| 632:15 633:7,9 | manufactures | matters 620:17 | meaningful 602:20 | 957:21 958:2,6,8 |
| 653:1 685:13 | 612:21 | 936:6 | meaningfully | 965:11 966:2 |
| 692:18 785:14 | manufacturing | mature 843:21 | 957:19 | 974:16 |
| 965:10 | 612:4 624:10 | 844:17 | meaningless 992:4 | member's 957:6 |
| majority 604:2 | 689:16 693:21 | maturing 823:2 | 992:8,11 | members 603:11,22 |
| 735:17 738:22 | March 626:21 | maximization | means 617:18,20 | 604:2 605:12 |
| 742:12 796:20 | 754:17 906:15,15 | 882:14 | 677:18 680:20 | 606:12,21 608:4 |
| | I | I | ı | I |

| | | | | 1490 1030 |
|--------------------|---------------------|------------------------|---------------------------|--------------------------|
| (51.0.10.660.22 | 411-600-5 | 005.10.006.0.10 | | 004.5.007.12.20 |
| 651:9,19 660:22 | method 690:5 | 905:19 906:9,10 | mitigate 605:11 | 984:5 997:13,20 |
| 665:3,12,14 | 692:10,11 | 908:6,7 909:2 | 612:14 818:20 | month-end 817:17 |
| 754:13,20 755:18 | metric 674:18 | 972:10,13 984:4 | 871:13 942:4 | monthly 668:12 |
| 758:2 759:19 | 968:11 | million-dollar | mitigates 939:3 | 696:4 820:16 |
| 764:12 768:12 | metrics 663:20 | 767:12 874:17 | mitigating 788:18 | months 633:1,5,6 |
| 777:12 779:12 | 664:6,10 665:5,7 | million-dollars | mitigation 674:11 | 634:10 769:15,15 |
| 780:4,10,17 781:1 | 668:2 809:14 | 673:17 | 768:2 818:9 | 771:20 829:2 |
| 781:18 782:3,7 | Meyer 1002:7 | millions 694:2 | mix 900:6 901:19 | 874:11,12 954:17 |
| 785:13 786:16,17 | mic 719:16 | 781:6 952:15 | 903:10 904:19 | 1005:11 |
| 788:19 792:8 | micromanage 895:9 | mills 751:18 | 905:11 | moose 970:14 |
| 797:3 799:21 | mid-70's 983:22 | mind 677:8 772:8 | Mizner 1002:14 | Morgan 783:8 |
| 800:3 801:15 | middle 985:15 | 776:10 783:13 | mobiles 949:15 | 914:2,5 |
| 803:6 809:10 | midnight 652:20 | 987:12 | Moby 982:9 | morning 602:13 |
| 812:8 952:6 | 702:1 895:16 | minds 664:17 | model 611:1 643:14 | 623:12,15 632:9 |
| 953:18,18,21 | migrating 717:21 | mine 625:1 977:6 | 711:13 717:22 | 642:21 689:10 |
| 954:15 955:18,22 | Mike 597:13 623:11 | mined 690:2 952:9 | 843:22 | 693:8 697:14 |
| 956:3,8 957:13,20 | 623:17 632:5 | mines 962:22 | models 608:6 | 899:5 |
| 958:11 959:17 | 641:2 653:3 657:7 | minimize 610:18 | 965:18 | Morrow 1001:22 |
| 961:9,18 963:16 | 660:13 661:17 | 707:15 878:11 | modern 962:19 | Mother's 970:8 |
| 964:5 974:5 | 668:5 1002:7,11 | minimum 611:3 | modes 771:8,9 | motion 672:22 |
| 979:19,21,22 | mile 655:7 664:3,4 | 633:5,6 937:6 | modifications | motives 610:8 |
| 981:12,13 | 664:13,16 665:15 | Minnesota 831:9 | 674:16 771:21 | motor 969:9 |
| members' 770:22 | 727:22,22 757:1,2 | minnow 982:9 | 811:18 | move 610:2 631:10 |
| 953:6 962:7 | 806:8,13 812:13 | minor 672:1 | modified 606:10 | 640:2 644:9 |
| 964:12 | 814:5 844:19,22 | minority 833:19 | 796:3 | 671:22 682:12 |
| membership 782:1 | 845:10 848:1,8 | minus 743:10 | modify 683:3 | 684:22 685:20,21 |
| 952:11 | 970:20,22 988:22 | minute 601:18 | molded 845:1 | 720:2 730:13 |
| memory 848:15 | 993:10 996:9 | 617:21 652:7 | moment 639:9 | 743:1,10 748:6 |
| mention 670:11 | mile/last 655:6 | 687:16 783:21 | 737:16 847:12 | 752:9,16 763:21 |
| mentioned 656:16 | 664:13,16 665:15 | 861:11 895:17 | 965:10 967:18 | 765:16 811:3 |
| 670:8 708:6 712:8 | 844:18 845:10 | 897:14 | moments 886:21 | 825:5 830:16 |
| 722:5 724:22 | 848:1,8 970:20,22 | miracle 730:5 | Monday 672:19 | 840:1 844:7 848:8 |
| 749:11 827:17 | 988:22 993:9 | mirror 844:1 | 697:14 701:10,11 | 848:11 861:22 |
| 846:13,22 854:20 | 996:9 | mis-heard 925:5 | 801:13,22 802:12 | 862:1 868:8 874:4 |
| 869:13 874:10 | miles 700:8,13 | misjudge 738:17 | 802:15 871:15 | 888:1 912:2,19 |
| 881:22 886:8 | 829:9 | misremembering | 881:22 882:7 | 921:2 931:21 |
| 887:5,11 890:10 | mill 671:1,8,9,9,14 | 902:21 | 883:11 898:19,21 | 937:10 943:5 |
| 899:20 930:15 | 671:20 684:13,15 | missed 614:16 | 899:1,5,8,10 | 970:15 976:4 |
| 967:20 981:11 | 684:16 701:7 | 615:12 619:13,14 | money 714:17 | 977:3 986:4,11,14 |
| 982:2 984:3 | 715:10 728:3 | 655:7,20 656:3 | 717:3,9 751:21 | 987:5,7 997:19 |
| 1002:3 1003:7 | mill's 672:16 | 684:8,14 692:20 | 761:14 875:20 | moved 613:1 676:7 |
| 1004:7 | million 603:7 673:3 | 808:10 809:17 | 983:2 985:11 | 676:8 743:9 |
| menu 834:4 931:10 | 673:22 674:16 | 849:18 853:14,18 | 992:8,10 | 828:11 849:6 |
| merchandise | 679:6 687:4 699:7 | 932:11 993:8 | monitor 652:19 | 926:19 975:15 |
| 704:13 858:2 | 700:1,3 705:10 | 994:14 999:11 | 817:3 | movement 675:7 |
| merit 847:11 | 706:15 709:3,14 | misses 655:10 684:1 | monitoring 872:3 | 678:8 704:21 |
| mess 1000:16 | 710:9 711:4 | 990:19 | monopoly 703:14 | 725:3,4 765:20 |
| message 763:3 | 712:13 714:16 | missing 666:15 | Montana 671:16 | 769:5 810:22 |
| messages 704:9 | 715:3,19,20 | 680:22 736:13,20 | 707:20 | 813:3 832:5 |
| 766:1,5 | 718:21 719:8,12 | 739:16 787:5 | month 617:13 | 853:13,15,20 |
| messed 1000:16 | 725:1 769:9 | 852:22 868:2 | 626:21 669:4,5 | 865:11,12 872:1 |
| messy 751:12 | 821:19,22 822:1 | 941:3 992:9 | 699:22 700:1 | 931:5 970:2 |
| met 698:20 726:11 | 830:1,7 866:2 | 998:19 999:13,15 | 709:15 733:18 | movements 744:9 |
| 797:11 800:8 | 873:14,17 884:4 | Mississippi 612:8 | 761:4 818:1 | 754:2 856:2 |
| metal 693:17 695:1 | 901:9,10 902:12 | 612:11 952:10 | 854:17 957:3 | moves 840:2 905:8 |
| 741:1 | 901:9,10 902:12 | mistakes 692:19 | 960:7 972:10,13 | moving 650:17 |
| /41.1 | 702.13 703.3 | 11115tanes 072.17 | 700.7 772.10,13 | moving 050.17 |
| | • | • | • | • |

| | | | | I |
|------------------------|--------------------|----------------------|----------------------|-----------------------|
| 655:3 706:2 741:9 | 638:6,10,21 | need 619:12 627:16 | 883:13 | newer 607:19 |
| 752:11 769:1 | 639:11,16 640:8 | 633:17 636:22 | nervous 936:15 | news 932:4 951:4 |
| 832:19,22 833:2 | 640:12 641:14,20 | 637:11 655:3 | net 617:14 | 967:22 968:17 |
| 852:4,15 871:18 | 642:2,6,11 643:3 | 660:7,14 687:12 | network 622:3 | NGFA 848:16 |
| 901:22 903:10,11 | 643:9,17 644:17 | 688:22 699:2,4,12 | 626:11 629:7 | nice 693:11 |
| 987:14 993:20 | 645:20 646:15 | 701:19 707:16,21 | 630:13 643:18,19 | nimble 874:20,21 |
| 994:9,9 | 647:3,8 648:9 | 716:8 720:12 | 661:20 695:11 | 876:3 |
| Mulligan 599:4 | 649:2,14,19 | 727:17 735:14 | 700:22 719:4,11 | noble 683:21 |
| 807:9 841:8 | 650:14 651:1,4 | 738:17 739:3 | 720:19 807:20,22 | nobody's 794:6 |
| 842:13 843:4 | 653:10,22 654:6 | 752:6,9 760:10 | 808:13 809:15 | 920:19 924:1 |
| 855:1 857:22 | 654:19 655:2,14 | 766:12 769:5 | 810:22 811:4 | nodding 666:2 |
| 858:2,5,13,16 | 655:19 656:5,9 | 776:21 777:3 | 813:7 815:5,7,21 | 707:8 |
| 859:13,17 861:1 | 657:15 658:3 | 781:9 811:16 | 824:16,17,22 | Nods 857:18 |
| 884:20 892:4,17 | 660:16 662:1,8 | 843:19,19 853:19 | 826:8,10,19 | non-ferrous 693:17 |
| 893:17 894:1,9,15 | 668:9,13,17 669:9 | 885:2,4,10 910:16 | 827:21 828:8,9,13 | non-issue 749:10 |
| 894:18 895:3,8,14 | 669:16,19 | 912:4 926:4 | 828:18,19 829:1 | noon 995:9 |
| 895:21 896:16,19 | name 611:14 | 934:11 937:10 | 829:13,22 830:2,3 | Nor-Recycling |
| 897:1,7,12 901:13 | 623:17 689:7,10 | 964:22 965:4 | 830:17,18 831:14 | 694:14,15 |
| 901:17 902:4,9,15 | 693:13 778:19 | 969:22 973:10,11 | 833:22 835:11 | Norfolk 612:8 |
| 902:19 903:5,9,17 | 825:19 932:16 | 982:18 986:6 | 854:3 871:10 | 613:21,21 614:3 |
| 904:2 905:7,16 | 951:15 961:9 | 987:10 990:14,16 | 873:2 881:16 | 671:6 695:18 |
| 906:1 923:8 924:3 | 965:7 974:8 | 991:10 997:10,13 | 885:4,5,7 888:1 | 700:5 726:12 |
| 925:2,17 930:18 | name's 966:7 | 1006:15,16 | 909:15 910:11 | 731:16 |
| 930:22 931:14 | names 981:11 | 1007:1,2,8 | 912:2,22 913:5 | normal 750:19 |
| 934:15 937:22 | narrow 605:7 | needed 610:17 | 926:6 941:21 | 751:13 |
| 938:5,11,15,21 | nasty 967:12 | 614:18 699:1 | 944:13 945:9 | normally 790:7 |
| 939:9,13,16,18 | national 599:11 | 743:14 795:15,22 | 946:20 947:14 | 898:18 |
| 940:1,7,13,19 | 600:6 618:14,19 | 965:17 976:9,11 | 950:6,7,20 964:9 | Normerica 598:2 |
| 941:1,5,10,16 | 618:21 807:5 | 977:21 | 983:17 1007:13 | 670:6 689:12,16 |
| 942:10,16 943:6 | 815:7 825:21 | Needless 673:16 | network's 815:16 | 690:8,18 691:7,18 |
| 944:1,9,17,22 | 853:19 911:13 | needs 603:4 609:2 | networks 890:13 | 692:1,9 |
| 945:15 946:12,15 | 944:3,7 952:6,8 | 618:14,19,21 | neutrally 749:13 | Normerica's 690:6 |
| 947:1,6,12,16,20 | 961:10 974:15,17 | 624:8 627:11,13 | Nevada 693:19 | 691:5 |
| 948:7,10,19 | natural 728:18 | 627:13 660:10 | never 677:19 681:6 | north 612:4 625:5 |
| multi-million-doll | 746:12,13 751:9 | 661:2 682:10 | 702:21 712:8 | 631:15 670:18 |
| 785:3 | 753:1 | 703:1 739:2 781:8 | 715:12 746:5 | 671:16 676:22 |
| multi-year 820:1,2 | naturally 635:13 | 782:16 828:4 | 751:16 846:9 | 689:11,17 707:19 |
| multiple 606:19 | nature 690:3 924:1 | 862:14 881:19 | 882:16 883:1 | 735:3 966:12 |
| 609:18 655:19 | NCTA 974:21 | 887:8 939:6,7 | 884:12 946:16 | northeast 697:2 |
| 656:2 683:9 | 981:12 | 955:20 971:14,18 | 957:18 990:6 | northern 671:17 |
| 767:10 776:14 | near 835:4 | 971:22 982:12 | 991:6 1005:13 | 672:3,8 676:4 |
| 840:14 962:21 | necessarily 647:15 | 983:16 991:14 | new 603:6,7 605:12 | Northwestern |
| 1004:8 | 652:5 665:10 | negative 606:12 | 605:13 608:5 | 611:18 670:9 |
| multitude 876:21 | 723:8 789:15 | 615:10 685:1 | 612:6 613:22 | not-ready-for-ser |
| mutual 965:12 | 866:11 886:12 | 823:15 850:9 | 616:21 618:19 | 660:21 |
| mystified 711:5 | 905:9 916:12 | negatively 710:5 | 619:1 620:11 | Notably 622:13 |
| | 938:4 | 961:1 | 630:16 667:20 | note 608:1 740:20 |
| N N COL 1 | necessary 608:17 | negotiate 698:20 | 671:3 672:9 675:6 | 820:21 823:7,19 |
| N 601:1 | 608:19 609:1 | 752:14 945:1 | 676:9 679:12 | noted 628:21 |
| Naatz 597:13 | 621:4 626:16 | 972:6,14,15 | 694:4 701:3 702:7 | 774:15 |
| 623:12,17 632:17 | 651:17 691:1 | 973:12 | 715:8,10 717:21 | notes 871:4 932:13 |
| 632:20 633:10,13 | 815:21 817:4 | negotiating 726:17 | 730:10 816:9 | notice 608:21 |
| 634:4,7,12 635:2 | 828:13 863:2,18 | 727:12 744:15 | 848:17 886:14 | 622:10 632:12,15 |
| 635:8 636:2,11,14 | 863:19,21 864:6 | 844:8 | 891:17 940:18 | 632:20 704:20 |
| 636:17,20 637:3 | 909:14 939:8 | negotiation 777:22 | 955:8,10 956:13 | 717:17 762:5 |
| 637:13,16,19,21 | 998:12 999:7 | neither 668:1 | 979:20 983:15 | 798:14,16,20 |
| | | | I | l |

| | | | | Page 1036 |
|--------------------------|------------------------------------|--------------------------------|---------------------------------------|----------------------------------|
| 700 4 000 10 14 | 0 (01 1 | 006 10 01 007 4 | 14 : 720 20 | 051 15 050 15 |
| 799:4 922:12,14 | 0 601:1 | 896:18,21 897:4 | obtain 739:20 | 851:15 959:15 |
| 937:12 939:15 | O'Connor 1002:16 | 897:10,13 898:2,5 | 808:11 812:13 | 960:7 994:17 |
| 965:10 998:14 | OBEMAN 717:5 | 898:8,13 899:7,13 | 1000:8 | offsetting 680:12 |
| 999:5 | 903:6 | 899:18,22 900:4,8 | obtained 976:22 | oh 666:21 700:17 |
| noticed 850:20 | Oberman 623:13 | 900:16,21 901:2 | obtaining 609:10 | 730:7 734:20 |
| notified 680:16 | 641:1,18,21 642:3 | 901:15 902:1,6,10 | obvious 920:15 | 744:8 752:21 |
| 701:22 755:3 | 642:7,13 643:4,11 | 902:17 903:2,14 | obviously 641:9 661:18 666:4 | 762:5 766:9 |
| 835:21 976:19 | 644:12 645:3 | 903:18 904:20 | 719:20 725:3 | 792:19 oil 694:1 771:2 |
| notifies 617:2 736:15 | 646:12,18 647:4 | 905:12,18 906:4 | | 966:15 |
| notion 996:5 | 648:4,10 649:11 649:17 650:7,19 | 906:17,22 907:6 | 727:7,11 771:11 780:13 794:20 | oils 771:4 |
| | 651:2 662:15 | 907:10,15,22 | 859:18 869:18 | |
| notwithstanding 726:5 | 663:12 665:11 | 908:4,14,22 909:16 910:2,13 | | okay 637:15 638:16 |
| November 673:10 | 666:1,18,21 667:2 | 910:21 911:3,6,14 | 873:22 934:8 1002:22 | 639:6 658:6 661:11 667:14 |
| 674:20 678:13 | 667:9,13,15 | 911:20 912:8,20 | occasionally 741:1 | 669:21,22 675:2 |
| 718:1 | 675:14,20 676:1 | 913:8,15,18 914:7 | 742:17 | 675:16,17 676:2,3 |
| NS 605:18 606:2 | 677:7 693:11 | 914:17 915:10,18 | occasions 838:19 | 676:12 678:10 |
| 609:5,19 610:3 | 708:17 709:6,10 | 915:21 916:1,7,16 | occupying 833:6 | 718:18 719:6 |
| 612:12 614:6,11 | 710:7,21 711:16 | 917:11 918:2 | occupying 833.0 occur 638:4 651:16 | 724:15,21 734:20 |
| 614:14,15,19,22 | 711:21 712:6,11 | 917:11 918.2 | 786:6 813:6 | 745:13,18 746:11 |
| 615:17,21 616:5 | 711.21 712.0,11 | 921:1,4,11,19 | occurred 732:10 | 750:7,15,21 |
| 616:12 617:2,4,6 | 713:13,19 714:1,7 | 922:2,7,8,13 | 739:16 | 752:11 765:10 |
| 618:20 619:3,5,11 | 714:11,20 715:1 | 923:3,22 924:17 | occurrence 683:4 | 787:11 791:19 |
| 622:19 671:7 | 715:14 716:12,20 | 925:3,22 724:17 | occurring 685:7 | 796:18 799:1 |
| 696:2,5 697:6,16 | 716:22 718:6,12 | 927:7,15 928:15 | 686:15 736:19 | 801:14 802:14 |
| 698:9,20 728:3 | 734:4,10,14,20,22 | 929:2,13 930:12 | 928:13 | 804:13 807:1,7 |
| 731:20,21 747:16 | 735:10,22 736:6 | 932:6,12,18 933:2 | occurs 782:20 | 849:9 850:19 |
| 749:1 896:15 | 736:22 737:4,7,15 | 951:14 965:1 | October 733:11 | 851:1,17 854:18 |
| NS's 619:2 886:14 | 737:20 738:2,10 | 966:3 979:3,15,18 | off-load 984:18 | 857:16 864:4 |
| NTP 677:18 | 738:16 739:4,21 | 980:4,10,13,18,21 | off-set 949:16 | 865:1 869:4,14 |
| number 610:18 | 740:4,8,17 741:4 | 981:3,6,18 982:1 | off-setting 687:22 | 870:6,12 871:1 |
| 614:8 624:2 | 741:7,12 742:2,13 | 982:11 983:10 | off-site 699:17 | 872:18 873:5 |
| 630:14,16,18 | 742:18,21 743:7 | 984:2 987:3,8,11 | offer 604:13,17 | 878:21 885:14 |
| 632:9 640:13 | 743:13,19,21 | 987:20 991:21 | 606:4 658:7,17 | 888:20 890:21 |
| 652:4 661:10 | 744:11,18 770:12 | 992:12 1003:14 | 722:5,11,12,17,21 | 891:20 892:2,16 |
| 681:5,8 688:19 | 783:2,6,12,15,20 | 1005:4,8 1007:16 | 723:4 724:2,4 | 893:11,14 896:18 |
| 712:20 727:16 | 784:1,6,10,12,15 | Oberman's 965:11 | 732:7 733:6,9,11 | 898:5,8 899:7,9 |
| 730:21 748:14 | 785:1,7,10,15 | objection 712:10 | 836:10 872:4 | 899:18 900:4 |
| 780:9 809:2 811:6 | 786:9,22 788:2 | objective 609:5 | 892:20 965:18 | 907:22 908:3 |
| 811:9,10,16 | 789:2,19 791:5,8 | 612:14 627:6 | 977:10 1003:12 | 916:3,10,11 921:3 |
| 830:15 841:4 | 791:11,14,19 | 630:21 633:13 | offered 715:1 | 922:2 930:14 |
| 882:19 883:20 | 792:13,19 793:9 | 654:7 | 1006:18 | 931:18 932:1 |
| 907:19 928:17 | 793:18 794:13 | objectives 625:14 | offering 823:17 | 933:4 935:21 |
| 929:18 933:7 | 796:22 798:12,22 | 626:4 630:10 | offers 670:20 | 939:17 940:2,18 |
| 949:6,20 969:9,13 | 799:3 801:9 802:2 | 633:16 | 696:14 722:21 | 942:12,19 945:12 |
| numbers 648:3 | 802:7,10,14,18 | obligate 857:13 | 822:15 834:7 | 951:3 986:13,15 |
| 663:21 664:11,15 | 814:13 843:2 | obligated 699:21 | office 983:1 | 987:2 988:8 |
| 765:13 767:1 | 845:13 849:5 | obligation 619:10 | 1001:18 1002:5 | 989:14 993:19 |
| 901:3,3 902:20 | 857:5,11,16 858:1 | 791:3 914:8 | 1002:10,13,17 | 1000:15 |
| 906:6,12 907:18 | 858:3,11,14 | 924:19 | Officer 597:14 | Olin 665:13 |
| 908:11,17 | 859:10,14 860:13 | obligations 716:17 | 598:12 623:18 | on-time 968:9,15 |
| numerous 620:9 | 861:10 863:3,8,10 | 813:20 | 624:5 | 970:3 971:7 973:6 |
| 775:16 | 889:12 890:5,17 | observation 649:18 | officers 624:22 | 973:8 983:7,17,19 |
| NYSW 612:6 | 890:21 891:2,12 | 649:19 | offices 805:2 | 990:16 |
| | 891:15 892:2,16 | observers 649:12 | offline 672:4 | onboarding 816:8 |
| 0 | 895:12,19 896:13 | obsolete 694:22 | offset 669:5 851:3 | 816:10 |
| | | | | I |

| 602 1 644 22 | 0.0001 | 622.14.627.2 | 722 10 72 0 14 | 0.47.10.012.2 |
|----------------------|---------------------|---------------------|------------------------------|----------------------------|
| once 602:1 644:22 | 966:21 | 623:14 637:3 | 723:18 739:14 | 847:10 913:2 |
| 677:5 693:13 | operation 612:11 | 641:17 664:9 | 788:5 872:4 | 929:8 |
| 702:13 735:19 | 612:19 615:11 | 689:13 693:4,12 | 900:13 | overcome 753:10 |
| 757:16 818:12 | 616:20 652:18 | 770:12 778:11,19 | orders 617:10,20 | overloaded 834:21 |
| 845:20 893:1 | 673:21 684:9 | 778:22 797:3 | 751:6 | overly 693:2 |
| 894:4 983:1 997:4 | 694:17 740:21 | 798:8 807:10 | organization 664:9 | overreach 726:16 |
| one's 749:16 | 741:13 767:12 | 808:8,11 814:6 | 961:15 | oversees 612:18 |
| one- 619:1 | 810:18 813:2 | 818:3 826:2 | organizational | 826:18 827:8 |
| one-sided 692:14 | 815:7 871:17 | 837:16 838:1 | 967:13 | oversight 596:2 |
| one-stop 810:11 | 876:8 | 842:2,6,15,22 | organizations | 762:4 767:4 |
| ones 646:1 802:22 | operation's 873:22 | 859:5 862:2 | 639:18 820:15 | oversupply 964:20 |
| 812:19 856:20 | 874:2,8 | 866:20 923:2 | organize 915:7 | overview 836:15 |
| 981:19 1004:15 | operational 603:12 | 924:3,8 931:10 | organized 962:22 | owed 777:10 |
| ongoing 644:8 | 605:13 662:10,11 | 942:4 951:22 | origin 674:6,10 | owned 683:20 |
| 645:22 667:4 | 680:13 681:5 | 966:4 974:2,7 | 685:21 811:17 | 695:15 |
| 696:10 812:17 | 682:10 688:1,5 | 978:21 986:2 | 812:5 813:3 | owner 658:1,1 |
| 814:20 819:8 | 703:15 728:18 | opposed 679:3 | 830:14,15 888:20 | owners 630:20 |
| 828:12 | 729:18 731:12 | 877:21 879:11 | 963:3,7 | 741:14 |
| online 734:2 830:15 | 807:19 808:11 | 880:18,21 | original 797:10 | ownership 692:18 |
| 832:1 840:2 844:8 | 814:17 825:10 | opposite 968:3 | 811:8 844:16 | 961:19 |
| 968:9 | 829:13 831:3 | 975:14 | originate 671:20 | owning 656:19 |
| Ontario 612:9 | 856:2 887:12 | optimally 683:20 | 716:15 811:2 | 779:10 |
| 689:18 734:19 | 888:5 964:11 | optimization 685:2 | originated 962:4 | |
| onus 654:14 | operationally | option 686:11 693:1 | originates 672:3,4 | P |
| onward 776:21 | 1004:11 | 741:22 778:14 | 692:7 | P 601:1 |
| OPAGAC 1002:5 | operations 608:9,11 | 780:3 949:3 | originations 941:17 | p.m 617:20 898:22 |
| open 602:2 747:22 | 609:14,16 614:18 | 962:17 | origins 619:18,19 | 932:3 1007:19 |
| 747:22 770:2 | 615:22 626:5 | optional 823:9 | 671:15,22 | Pacific 599:7 606:9 |
| 793:20 894:21,22 | 628:10 644:7 | 826:3,8,11 827:7 | ought 657:21 | 611:19 671:1,6 |
| 896:7,8 897:20 | 653:20 662:19 | 834:5,7,14 835:14 | 752:22 943:21 | 672:13 675:5 |
| 1003:7 | 678:13 688:21 | 835:18 836:13,14 | outage 745:17 | 676:21 685:5 |
| opened 631:13 | 690:7 693:3 698:8 | 836:17 838:3 | outlier 813:13 | 686:13 707:2 |
| opening 623:6 | 703:5,12,20 | 839:4 840:16 | outliers 813:16 | 716:16,16 717:11 |
| 704:18,20 | 732:19 818:20 | options 607:3 743:5 | outline 603:17 | 807:4 814:15 |
| 1005:14 | 826:17 827:13,19 | 811:20 949:2,20 | 607:15 812:11 | 952:13 966:20 |
| operate 627:17 | 827:21 828:7 | oral 678:9 | outlined 610:12,13 | Pacific's 685:8 |
| 649:10 702:17 | 829:5 847:22 | orally 910:3 | 956:11 | 704:18 |
| 744:6 774:1 831:1 | 882:22 954:8 | order 629:2 642:4 | outrageous 758:10 | packers 671:12 |
| 835:4 929:10 | 964:13 966:16,17 | 652:21 666:5 | 758:11 768:11 | page 828:9,11 |
| 983:19 | 999:7 | 680:13 691:20 | outreach 777:14,22 | 836:3,4 909:18,22 |
| operates 650:8 | operator 773:21 | 718:19,20 738:7 | outside 619:9 759:6 | 910:8,9,12 |
| 689:16 | 776:17 | 738:12 739:1 | 801:16 831:11 | paid 759:21,22 |
| operating 608:6 | operators 649:4,16 | 745:6,8,22 757:5 | outstrip 636:6 | 761:10,14 763:7 |
| 614:5 623:22 | 649:20 774:2,15 | 761:12 768:9 | 639:8 745:3 | 803:19 907:3 |
| 626:14 635:14 | 774:21 775:6,7 | 790:10 803:7 | outstrips 746:15 | pain 639:18 1003:5 |
| 666:5 671:7 702:1 | 776:1 | 818:3 820:7 | outweigh 607:20 | pallet 758:15 |
| 729:6 744:3,3 | opinion 913:12 | 823:22 824:2 | over-consumption | Pam 599:8 814:10 |
| 770:21 789:22 | 922:10 970:21 | 859:14 872:7 | 813:17 | 814:14 843:7 |
| 816:13,14,15 | 982:22 991:10 | 883:15 898:22 | over-ordered 739:7 | 846:11 861:12 |
| 817:1 820:18 | opinions 652:1 | 899:5 909:19 | over-ordering | 897:15 909:7 |
| 821:8,9 826:7 | opportunities | 912:5 917:1 918:9 | 877:18 | 912:14 921:2,4,11 |
| 828:20 831:3 | 630:16 820:11 | 920:18 | over-reaching | 926:13 932:6 |
| 832:15 833:20 | 822:16 871:20 | ordered 746:6 | 726:22 | Pam's 914:1 |
| 847:10 858:22 | 898:1 | 811:7 931:8 | overall 724:16 | panel 597:2,16 |
| 886:2 926:17 | opportunity 601:7 | 950:15 | 780:14 821:2 | 598:9 599:2 600:2 |
| 940:15,16 956:20 | 602:14 611:11 | ordering 691:6 | 843:14 846:4 | 601:5 602:9,18 |
| 710.13,10 730.20 | 002.11011.11 | or dering 071.0 | 013.11 070.7 | 001.5 002.7,10 |
| | | | | |

| | | | | Page 1040 |
|----------------------|-------------------------|------------------------|----------------------|---------------------------|
| 670 1 2 5 721 12 | 010 10 010 7 | 654 10 600 01 | 077.7.10.20 | 060 16 060 16 |
| 670:1,3,5 731:12 | 918:19 919:7 | 654:12 690:21 | 977:7,18,20 | 968:16 969:16 |
| 754:9,10,12 | 920:3 942:21 | 699:16 703:7 | penalty/incentive | 970:4 971:7 973:8 |
| 779:14 807:3,6,7 | 943:16 949:8,21 | 713:7 737:10,18 | 660:15 | 974:1 983:7 |
| 807:8 810:2 | 950:8 994:19 | 737:21 739:8 | pending 737:2 | 990:17 995:21 |
| 840:22 842:16 | particularly 604:1 | 740:14 751:20,21 | 996:6 | 1000:9 |
| 857:20 863:16,17 | 605:22 607:2 | 752:15 760:11 | people 645:12 | performed 840:4 |
| 876:14 901:5 | 626:7 640:15 | 775:4 791:3 | 665:20,21 687:17 | performing 763:4,5 |
| 930:15 951:7,7,10 | 657:19 660:6 | 840:12 864:10 | 695:4 697:21 | peril 981:15 |
| 952:5 979:6 | 731:22 762:7 | 896:19 899:1,21 | 702:5 707:3,5 | period 618:6 |
| 992:18 993:11 | 769:18 793:20 | 902:2 904:5,6 | 712:3 716:7 | 621:22 622:7,14 |
| 996:11 1001:2 | 828:6 829:1 872:5 | 918:6 919:20 | 726:13,14 731:14 | 622:16,17 683:12 |
| panelist 781:16 | 876:17 877:6 | 920:10 940:18 | 744:6 746:9 | 702:6 721:11 |
| panelists 779:4 | 975:2 | 959:18 972:12 | 753:15,16 755:15 | 757:19 821:15 |
| panels 651:22 979:5 | particulars 861:19 | 975:5,8,19 976:10 | 764:4 767:6 772:9 | 822:6 824:14 |
| 1004:16 | parties 627:18 | 977:7 984:9,19 | 773:1 781:10 | 897:9 901:6,7 |
| paragraph 914:10 | 662:13 817:20 | 985:8 986:4,5 | 783:4 822:12 | 902:16 905:17 |
| parallel 792:10 | 819:6 824:15,20 | 987:4 989:19,22 | 839:6 840:15 | 913:11 955:6 |
| Pardon 708:10 | 837:21 1003:1 | 990:8 998:15 | 842:16 846:14 | 960:3,7 |
| parent 684:11 | partly 743:8 | paying 605:15 | 854:21 872:5 | periodically 846:22 |
| parks 786:20 | partner 619:3 | 643:8 658:21 | 876:4 899:19 | periods 852:2 |
| part 608:3 618:12 | 769:1 813:21 | 678:6 681:20 | 900:1 907:1 | permanent 646:13 |
| 645:14 665:16 | partners 619:13 | 682:3 688:10 | 925:18 934:7 | permit 621:4 633:2 |
| 683:17 730:10 | 628:13,17 752:2 | 713:13,15,20 | 936:10 937:14,18 | 634:13 |
| 736:2 737:14 | 777:22 | 757:17,18 795:7 | 939:12 945:10 | permits 627:8 |
| 738:5 754:17 | partnership 812:22 | 822:19 894:6 | 965:1 981:19 | perpetuity 852:13 |
| 771:5 779:16 | 966:10 | 900:1 903:22 | 993:11 999:6 | 853:9 990:7 |
| 782:6 789:7 791:9 | parts 738:18 761:3 | 904:6 907:2 986:8 | 1001:16 1007:9 | persistence 967:12 |
| 799:1,4 806:7 | 831:7 841:21 | 986:21 988:3 | people's 751:5 | person 622:5,9 |
| 809:7 819:20 | 961:18 970:12 | payment 774:22 | 880:8 | 700:6 715:15 |
| 822:21 823:1 | party 638:1 681:2 | pays 610:6 621:14 | perceived 619:16 | 720:12 795:3 |
| 825:3 839:10,15 | 784:17 785:19,20 | 972:10 984:4 | percentage 742:11 | 803:7,16 810:20 |
| 841:13 858:14,15 | 786:7 838:13 | PBF 600:9 951:8 | 821:13,20 822:5 | 917:14 918:4 |
| 858:18 860:1,21 | 856:22 857:2 | 966:4,9,10,11,11 | 868:3,4 960:5 | 929:18 940:10 |
| 860:21 863:4 | 949:16 | 967:10 972:10 | perception 641:3 | person's 639:8 |
| 874:10 875:20 | party's 723:1 | peacefully 748:12 | 967:18 979:19 | 940:15 |
| 878:17 884:13 | Paso 701:21 | Pedro 1002:15 | 982:4 | personal 744:14,17 |
| 892:21 906:13 | pass 774:21 775:13 | peer 773:2 | perceptions 979:11 | 812:9 982:22 |
| 907:17 911:4 | 776:16 859:5 | peers 630:5 | perfect 728:21 | 1000:19 |
| 919:11 925:20 | passage 722:4 | Pelsey 1002:14 | 729:7 772:3,7 | personalized |
| 938:12 977:12 | passed 830:8 | penalize 646:11 | 810:8 822:14 | 899:16 |
| 987:13 995:8 | passenger 973:18 | penalized 691:17 | 844:20 875:22 | personnel 666:6 |
| participate 654:3 | passes 935:13 | 702:19 760:3,5 | 876:1 883:12 | 667:19 837:8 |
| 689:14 721:4 | passing 626:10 | 954:10 958:3 | 932:21 | perspective 645:2 |
| 862:4 964:17 | pasta 670:20 715:8 | penalizing 659:4 | perfection 701:13 | 660:13,15 665:8 |
| participates 820:16 | pastas 670:21 | 833:16 960:20 | 728:12,13,14,18 | 799:11 822:17 |
| 931:4 | patented 694:21 | penalties 703:8 | 731:13 744:3 | 844:10 853:5 |
| participating | path 886:4 | 960:14 978:4 | perfectly 635:14 | 876:8,10 886:9 |
| 683:22 820:14 | Patrick 662:17 | penalty 622:1 | 729:7 730:17 | 910:7 921:17 |
| particular 621:6 | 733:6 742:5 922:3 | 641:13 642:10 | 751:17 789:22 | 928:14 933:9,10 |
| 644:20 725:18 | 930:12 1002:19 | 660:4 683:2 | 790:18 | 934:17 937:8 |
| 790:9 803:18 | Patrick's 641:4 | 834:16 858:4,15 | perform 834:11,12 | 945:17 948:2 |
| 836:6 838:12 | 744:2 | 859:16,22 860:6 | performance 665:9 | 949:12 984:12 |
| 840:8 855:13 | pattern 675:10 | 860:17 861:14 | 719:11 756:8 | perspective-wise |
| 862:4 876:13 | 906:8 934:12,17 | 863:5 882:10 | 809:14,15 816:5 | 874:2 |
| 877:15,15 878:1 | pay 619:10 629:7 | 889:17 891:5 | 816:19 820:18,19 | perspectives 624:14 |
| 879:22 899:15 | 629:22 643:2 | 956:12 976:2 | 821:7 952:22 | 935:8 |
| | | | I | I |

| | | | | I |
|-----------------------------------|-------------------------------------|-------------------------------------|--|--------------------------------|
| pet 689:21 | placed 617:5,11,17 | 998:4 | 833:5,14 835:18 | 682:14 687:12 |
| Petal 597:10 612:7 | 678:2 782:9 | plants 612:18 | 840:17 915:16 | 707:14 719:17 |
| 614:10,13 | 803:13 811:11 | plastic 603:8 | 964:2 | 721:8 807:20 |
| PFS 683:6,8,11 | 840:5 892:9,10 | play 826:9 | policy 610:11,14,16 | potentially 620:7 |
| Ph.D 598:15 | 897:20 917:7 | player 972:15 | 618:19 642:16 | 685:9 686:18 |
| phase 937:17 | 931:8 | playing 639:3 | 680:15 688:2,5 | 892:7 946:7 |
| phenomenon | placement 616:7 | 715:21 758:2 | 696:3 702:7 | Powder 998:3 |
| 656:18 | 617:1,7,22 622:11 | pleadings 733:12 | 824:14 880:5,13 | power 600:13,15 |
| Phoenix 689:18 | 635:18 652:22 | 734:2 | 880:18,22 884:2,2 | 688:14 692:16 |
| phone 794:19 847:6 | 730:18 755:16 | please 601:20 | 896:14,20 897:2 | 703:16 943:2 |
| phones 759:15 | 756:5 758:8 763:9 | 799:15 934:7 | 898:6 914:21 | 974:10 976:7 |
| phrase 911:19 | 768:15 770:5 | 972:18 | 929:11 963:14 | practice 620:16,20 |
| physical 717:3 | 781:17,18 782:18 | pleased 602:18 | poor 971:6 973:19 | 679:22 724:6,11 |
| physically 619:6 | 800:17 803:1,3,5 | 604:20 606:9 | popular 944:18 | 731:3,22 749:21 |
| 635:21 741:19 | 803:12,14 804:2,6 | 825:15 826:14 | population 847:7 | 758:20 775:6,14 |
| pick 654:10 680:9 | 804:7,10,10 810:3 | 835:13 958:21 | port 845:8,10,14,18 | 792:2 797:13 |
| 681:17 802:1 | 842:20 892:22 | 978:22 | portal 816:12 820:9 | 800:6 808:16 |
| 889:12 977:2 | 893:16 894:5,12 | plucking 935:12 | portion 672:1 736:5 | 870:5 873:7 918:3 |
| 994:7 | 895:6,15 896:11 | plug 743:14 | 736:7 860:18 | 923:10 927:9,17 |
| pick-up 685:1 | 917:8,8 919:4,4 | Plum 1002:15 | 861:13,14 891:4,5 | 928:9 |
| 954:7,16 959:20 | 988:20,21 989:4 | plus 674:15 746:14 | 1005:15 | practices 607:8,20 |
| picking 606:18 | 989:12 | 790:13 900:9 | ports 815:9 | 607:22 610:15 |
| 691:16 886:11 | placements 701:22 | pocket 624:22 | position 620:11 | 611:2 620:6,16 |
| 960:2 | places 953:13 | point 614:13 645:19 | 628:7 640:17 | 679:17 680:7 |
| picture 647:22 | placing 774:2 | 650:20 654:14 | 663:8 669:19 | 692:14 711:19 |
| 675:3 676:8,12 | Plains 671:17 672:3 | 676:17 692:9 | 677:5,15,22 737:1 | 722:8 724:9 731:7 |
| 831:2 884:22 | 672:8 | 717:11 730:19 | 737:10 771:15 | 824:9 834:18,20 |
| 929:10 | plan 616:21 645:15 | 731:17 742:22 | 783:7,13,16,17 | 835:6 867:5 870:3 |
| piece 647:11 700:20 | 673:6 684:3 685:8 | 760:2 761:9 | 788:11 793:11 | 870:4 879:21 |
| 877:5 894:19 | 686:17 710:15,16 | 793:21 812:22 | 794:4 797:16 | 901:4 924:16 |
| 945:15 | 710:17 782:7 | 841:21 844:21 | 815:12 | 926:10 934:9,11 |
| pieces 650:17 655:3 | 809:16 871:9 | 845:11 852:1,9,11 | positioned 779:15 | 964:15 978:18 |
| pile 768:1 | 883:5 899:14 | 857:6 866:8 | positioning 674:10 | prayer 710:11 |
| pipeline 809:3 | 968:8 969:2,15 | 868:21 873:22 | positions 624:2,7 | PRB 976:22 |
| 811:15 817:11 | 988:9,13 989:3 | 874:8 880:17 | 695:4 712:4 827:2 | pre- 809:7 |
| 872:3,4,8 883:14 | 993:7 996:7 997:9 | 882:18 887:13 | positive 765:20 | pre-2014 790:6,17 |
| 896:6 936:19 | 999:7 | 888:4,5,17 890:8 | positively 848:11 | 798:8 |
| pipelines 928:13 | planned 681:7 | 894:13 912:21 | possible 601:21 | pre-billing 809:9 |
| 978:3 | 816:17 969:16 | 918:14 920:5 | 634:5 683:20 | 810:4 925:16 |
| pit 677:16,18,20 | 971:11 | 934:6 943:10 | 704:22 772:16 | pre-builds 926:16 |
| 711:22 712:12 | planning 633:16 | 968:8 971:19 | 777:8 825:9 839:1 | pre-invoice 872:9 |
| pits 673:4,19 | 816:13 997:3,21 | 972:4 983:20 | 878:14 881:3 | pre-invoicing |
| 679:10 687:5 | 997:22 | 987:12 990:17 | 913:1 914:16 | 814:19 815:22 |
| place 619:6 627:7 | plans 707:5 816:15 | 991:21 | 915:3,9 916:6 | 817:19 837:1 |
| 692:6 709:7,18 | 820:2 plant 597:10 612:12 | pointed 784:19 929:19 | 951:2 982:17 988:3 996:1 | 917:21 |
| 711:7,15 743:1 | _ | | | pre-work 927:3,5 |
| 758:20 769:3 | 613:11 614:10 615:20 619:15 | pointing 667:3 | possibly 618:3 | precise 691:15 |
| 781:20 797:7 | | points 761:4,5,6 | 633:14 635:4 | precision 608:3 673:6 710:4 |
| 809:4 816:4 820:2 | 652:19 670:22 671:2,7,8,11 | 813:2 819:21 | 729:2 897:7 926:4 Post-2014 790:22 | |
| 825:12 840:15 853:6 865:10 | , , , , | 845:20 858:5 | | 717:15,21 771:20 |
| 853:6 865:19 868:5 801:13 | 681:13 686:5 | 959:3 968:7 987:6 | post-invoice 822:16 | 825:10 843:21 |
| 868:5 891:13 893:2 895:1 898:7 | 715:8 734:11,16 734:18 739:2 | 1005:19 | post-invoicing 818:11 | 889:8 953:8 963:18 965:6 |
| 900:11,13 931:18 | 745:17 830:22 | polar 831:8 968:3 policies 619:1 | posts 814:19 | 975:2 |
| 931:19,19 936:17 | 924:6 942:21 | 687:19 779:19 | potential 610:9 | predecessor 624:3 |
| 967:17 985:15,20 | 943:20 976:7 | 825:12 826:4 | 615:17,20 673:18 | predict 723:17 |
| 701.11 703.13,20 | 7 4 3.40 710.1 | 043.14 040.4 | 015.17,40 075.18 | predict /23.1/ |
| | • | | • | - |

| predictable 723:14 823:4975:14 823:4977:12 823:14 823:11 823:21 823:14 823:14 82 | | | | | |
|---|--------------------|----------------------------|---------------------------------------|--|--|
| 823:4 975:14 predictably 744:8 predominantly 694:9 878:22 prefer 627:22 628:6 630:1 727:8 384:13 642:11 722:22 prefers 832:16 384:13 642:11 723:22 premise 744:2 preparation 808:20 732:21 953:7 prepared 606:11 654:19 678:12 702:7 702:7 prepared-for-trai 682:22 682:22 690:10 610:12 prepared-for-trai 682:22 presented 620:9 presented 620:9 presented 620:9 presented 620:9 presented 620:9 presented 620:9 presented 620:9 presented 684:12 pressured 685:13 pressured 685:13 pressured 685:13 pressured 685:13 pressured 685:13 pressured 686:14 prevention 862:3 previal 84:4 pressured 664:14 pressured 664:15 pressured 664:15 pressured 664:15 pressured 6 | nredictable 722.14 | 977-12 | 744.7 824.10 | 806-18 808-12 | 605:1 771:2 774:2 |
| predecitably 744:8 predecitably 744:8 predominantly 694:9 878:22 prefer 627:22 628:6 prima 648:16 | | | | | |
| predominantly 905:15 658:4712:21,21 836:16 837:1,15 professionals 628:12 808:22 professionals 628:12 808:12 965:0 985:19 906:14 84:18 94:21 985:19 906:14 985:19 906:14 985:19 906:14 985:19 906:14 985:19 906:14 985:19 906:14 985:19 906:14 | | _ | • | | ************************************** |
| Food-light Strict Food | | | | | |
| prefer 627:22 628:6 630:1727:8 834:13 642:11 722:22 732:21 935:7 976:832:16 972:21 11 678:16 978:12 976:14 978:19 978:10 | | | | · · · · · · · · · · · · · · · · · · · | |
| 630:1 737:8 834:13 642:11 722:22 856:3 931:21 prefers 832:16 premise 744:2 preparation 808:20 922:11 prepared 608:16 871:11 prepared 606:11 871:12 prepared for-trai 682:22 preponderance 641:16 704:1 879:2 prepared 606:11 872:15 973:22 preponderance 641:16 704:1 879:2 prepared 606:11 877:15 973:22 presented 620:9 presented 620:9 presented 620:9 presented 620:9 presented 620:9 president 997:13 598:61,11,51,81 599:4,81,2 600:4 600:10,16 611:15 599:4,81,2 600:4 600:10,16 611:15 599:4,81,2 600:4 600:10,16 611:15 599:4,81,2 600:4 600:10,16 611:15 799:4,81,2 600:4 600:10,16 611:15 799:4,81,2 600:4 600:10,16 611:15 799:4,81,2 600:4 600:10,16 611:15 826:7 836:1,1,51,81 83 | | | | | |
| ## 883:16 prefers 832:16 premise 74:2 proparation 808:20 | | | | | |
| preemis 744:2 primary 612:14 primary 612:14 primary 612:14 problem 604:8 | | | | | |
| premise 744:2 preparation 808:20 preparation 808:20 g22:11 prepare 680:16 | | | | | |
| Proparation 808:20 922:11 922:11 922:11 922:11 922:12 969:2 969:2 969:2 969:2 969:2 969:2 969:2 969:2 969:2 969:2 969:2 960:12 960:11 960:18 978:10 978:10 976:14 976:18 978:10 976:14 976:18 978:10 976:14 976:18 978:10 976:14 976:11 976:18 978:10 976:14 976:11 | | | | · · | |
| 92:11 prepare 680:16 871:11 prepare 680:16 654:19 678:12 prepared 606:11 654:19 678:12 prepared 606:11 654:19 678:12 prepared-for-trai 682:12 preponderance 641:16 presented 612:1 presented 600:9 827:15 973:22 presentation 827:15 973:22 presented 620:9 President 597:13 598:6.11,15,18 599:4,8,12 600:4 600:10,16 611:15,18 599:4,8,12 600:4 600:10,16 611:15 598:6.11,15,18 599:4,8,12 600:4 600:10,16 611:15 598:6.11,15,18 599:4,8,12 600:4 600:10,16 611:15 665:16,20 657:1,7 827:15 973:22 prior 611:16 622:11 prioritizing 858:17 prioritizing 858:18 prioritizing 858:17 prioritizing 858:18 prioritizing 858:1 | | • | | | _ |
| prepare 680:16 871:11 689:22,22 866:22 969:2 638:16 639:1 640:9,16 664:13 665:16,22 667:5 668:18 702:14 702:7 processed 690:2 640:9,16 664:13 668:18 702:14 702:7 processed 690:2 812:16 822:10,22 813:15 841:14 847:19 848:2 963:12 970;000:88:17 970;000:88:17 970;000:10,16 610:12,12 970;000:10,16 611:16 622:11 970;17:17 817:4,22 970;17:17 817:4,22 970;18:10 638:16 971:17 966:8 974:13:19 982:13 974:13:19 982:13 974:13:19 982:13 974:13:19 982:13 975:13 982:14 975:13 972:13 972:13 970;18 983:15 970;18 970;18 970;18 970;18 970;19 1 | | | _ | | |
| 871:11 969:2 640:9.16 664:13 processes 602:21 processes 602:22 processes 602:21 848:11 processes 602:22 processes 602:22 840:15 841:14 271:9 743:4 748:1 processes 602:29 848:11 970:15 85:411,13 processes 602:29 840:15 841:14 842:12 900:12 | | | | | |
| prepared 606:11 654:19 678:12 Principal 609:7 665:16.22 667:5 812:16 822:10,22 812:16 822:10,22 878:21 702:7 840:15 841:14 847:19 848:2 970:22 program 638:11 672:9 680:12 740:5 807:15 820:15 841:14 847:19 848:2 921:10 729:9680:12 740:5 807:15 814:7 821:2 823:2 820:15 878:10 700:27 906:8 949:9 921:10 processing 611:2 processing 611:2 processing 611:2 700:517 781:10 829:17 842:18 829:18 829:18 800:90:21 90:10 90:10 90:10 90:10 90:10 90:10 90:10 90:10 90:10 90:11 90:11 90:11 90:11 90:11 90:11 90:11 90:11 90:11 90:11 90:11 90:11 90:11 | | • | | | |
| 68:19 678:12 principle 609:7 621:8 978:10 principles 603:18 foot 702:14 rose foot 702:7 prepared-for-trai 68:22 prepared for-trai 68:22 prepared for-trai 661:16 foot foot foot foot foot foot foot foo | ., | | | | |
| 702:7 prepared-for-trail 621:8 978:10 principles 603:18 folio:10,12,12 prependerance 64:1:6 727:9 743:4 748:1 766:20 782:6 847:19 848:2 921:10 740:5 807:15 814:7 821:2 823:2 672:9 680:12 705:507:15 82:17 900:21,22 propenderance 64:1:6 704:1 879:2 906:8 949:9 90:8 862:10 957:10 957:10 957:10 957:10 957:10 957: | | | · · | | |
| prepared-for-trai principles 603:18 766:20 782:6 921:10 740:5 807:15 870:12 823:2 preponderance 641:16 611:1 703:11 797:5 854:11,13 705:17 781:10 829:17 842:18 823:2 829:17 842:18 823:2 presented 612:1 prints 805:22 996:8 949:9 996:8 949:9 produce 607:20 852:2000:9 852:2000:9 997:20,21 982:6 863:3 691:2 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 990:10 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:9 866:12 993:15 905:5 860:10 97:20,21 982:6 661:10 777:1 90:10 61:10 777:1 90:10 61:10 777:1 90:16 613:16 816:22 997:18 997:18 < | | | | | |
| 682:22 preponderance 641:16 | | | | | |
| preponderance 641:16 704:1 879:2 906:8 949:9 862:10 957:8 860:9 866:12 present ation prints 805:22 prints 805:22 958:10 970:21,22 produce 607:20 885:2 900:9 present ation 624:1 632:15 985:22 1006:14 735:21 739:3 993:15 905:5 president 597:13 598:6,11,15,18 priority 683:15 priority 683:15 problematic 605:22 611:10 777:1 poduced 613:10 993:13 (613:16 66:22) produced 613:10 programs 812:16 | | | | | |
| 641:16 704:1 879:2 prints 805:22 906:8 949:9 862:10 957:8 produce 607:20 886:9 866:12 produce 607:20 presentation series for exement 62:0:9 presented 620:9 presented 620:9 presented 620:9 presented 620:9 produced 620:11, 15, 18 project fitsing 858:17 prointizing 858:17 prointizing 858:17 prioritizing 858:18 prioritizing 858:18 prioritizing 858:18 prioritizing 858:18 prioritizing 858:18 prioritizing 858:18 prioritizing 858:18 prioritizing 858:18 prioritizing 858:18 prioritizi | | | | | |
| present 612:1 prints 805:22 958:10 970:21,22 produce 607:20 885:2 900:9 g27:15 973:22 624:1 632:15 973:20,21 982:6 628:3 691:2 935:13 16 938:16 presented 620:9 677:17 817:4,22 995:21 006:14 problematic 605:22 961:16 973:12 973:12 97 | | | | | |
| presentation prior 611:16 622:11 972:20,21 982:6 628:3 691:2 903:15 995:5 935:13,16 938:16 gresned 620:9 677:17 817:4,22 985:22 1006:14 735:21 739:3 993:13,16 938:16 President 597:13 598:6,11,15,18 900:22 611:10 777:1 990:10 613:16 816:22 973:16 programs 812:16 599:4,8,12 600:4 600:10,16 611:15 826:7 private 613:1 616:6 616:7,15,18,22 665:1 681:8 producer 98:7 674:2,14,19 679:8 623:18 624:4,5 814:14 826:16 6167,15,18,22 665:1 681:8 665:1 681:8 produces 70:19 977:18 979:18 produces 98:10 677:2,14 19 679:8 674:2,14,19 679:8 707:4 983:11,14 975:13 977:8 981:49 4982:3 produced 613:10 673:17 679:5 13 970:4 983:11,14 975:13 977:8 981:49 4982:3 970:4 983:11,14 975:13 970:4 983:11,14 975:13 970:4 983:11,14 975:13 970:4 983:11,14 975:13 970:4 983:11,14 975:13 970:4 983:11,14 975:13 970:4 983:11,14 975:13 970:4 983:11,14 975:13 970:4 983:11,14 975:13 | | | | | |
| 827:15 973:22 presented 620:9 624:1 632:15 (67:17 817:4,22) 985:22 1006:14 problematic 605:22 (61:10 777:1) 735:21 739:3 (96:16 programs 812:16 produced 613:10 produced 613:10 folial foli | | | , | | |
| presented 620:9 677:17 817:4,22 900:22 problematic 605:22 611:10 777:1 990:10 961:16 produced 613:10 programs 812:16 973:16 programs 812:16 598:6,11,15,18 599:4,8,12 600:4 600:10,16 611:15 623:18 624:4,5 97:11 966:8 974:13,19 981:13 pressure 742:22 773:2 816:7,15,18,22 665:1 681:8 665:1 681:8 665:1 681:8 665:1 681:8 665:1 681:8 665:1 681:8 665:1 681:8 665:1 681:8 665:1 60:1 709:1 773:2 656:16,20 657:1,7 657:9,11,19,21 658:12,15 659:14 pressure 742:22 pressure 742:22 660:7,13 684:22 pressure 742:22 660:7,13 684:22 pressure 742:22 660:7,13 684:22 pressure 742:22 660:7,13 684:22 pressure 742:22 753:13 pretty 875:2 901:17 902:13 904:18 902:13 904:18 907:18 888:868:15 proceeding 610:21 902:13 904:18 947:7 983:20 992:18 preventing 870:18 preventing 870:18 preventing 870:18 preventing 870:18 preventing 870:18 preventing 870:18 preventing 862:3 prevent 682:3 proceed 58:11 799:11 800:11 previous 614:9 privates 897:19 902:12 902:13 908:21 909:1 956:10 992:18 proviously 619:14 679:5 791:15 965:15 774:16 780:8 produced 613:10 produced 613:10 produced 613:10 produced 613:10 produced 613:10 produced 613:10 produces 98:7 produces 603:16 e13:16 614:22 produces 670:19 projected 613:10 p | - | | · · · · · · · · · · · · · · · · · · · | | |
| President 597:13 900:22 611:10 777:1 produced 613:10 613:16 816:22 813:22 841:12 920:10 613:16 816:22 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 813:22 841:12 923:14 | | | | | |
| 598:6,11,15,18 prioritizing 858:17 priority 683:15 990:10 613:16 816:22 813:22 841:12 923:14 600:10,16 611:15 826:7 826:7 private 613:1 616:6 614:5 629:9 producer 998:7 producer 998:7 674:2,14,19 679:8 814:14 826:16 616:7,15,18,22 665:1 681:8 617:6,12,17 618:2 665:1 681:8 produces 670:19 672:4 983:11,14 672:4 983:11,14 707:4 983:11,14 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:19 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:18 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 970:19 | | | _ | | |
| 599;4,8,12 600:4 priority 683:15 problems 603:16 producer 998:7 923:14 600:10,16 611:15 826:7 private 613:1 616:6 616:7,15,18,22 631:21 664:22 997:18 674:2,14,19 679:8 814:14 826:16 616:7,15,18,22 655:1 681:8 696:19 709:1 671:9,10 707:4 983:11,14 975:13 pressure 742:22 656:16,20 657:1,7 756:16,20 657:1,7 777:20 792:13 975:13 producing 738:14 970:ectd 619:9 pressure 742:22 presumed 753:4 660:7,13 684:22 procedures 609:9 881:4 982:3 proceeding 610:21 proceeding 610:21 promise 709:16 promise 681:3 promise 709:16 promise 709:16 promise 681:3 promise 709:16 promise 681:3 promise 709:16 promise 689:22 promise 83:5,10 835:11 proceeding 610:21 | | | | | |
| 600:10,16 611:15 623:18 624:4,5 private 613:1 616:6 631:21 664:22 670:19 671:17 966:8 614:14 826:16 616:7,15,18,22 665:1 681:8 974:13,19 981:13 618:8,18 620:15 725:20 762:21 producing 738:14 projected 619:9 680:18 pressure 742:22 656:16,20 657:1,7 73:2 657:9,11,19,21 pressured 684:12 presumed 753:4 660:7,13 684:22 proceed 716:6 proceeding 610:21 753:13 683:2,22 695:14 proceeding 610:21 753:13 698:8 703:11 612:1 623:6 689:2 proceed 716:6 proceeding 610:21 725:5,8,10,19 902:13 904:18 947:7 983:20 894:4 884:8 868:15 provention 862:3 prevention 862:3 prevention 862:3 prevention 862:3 prevention 862:3 province 609:9 province 609:9 proceed 716:6 proceeding 610:21 70:10 897:18 897:12 890:22 proceed 716:6 proceeding 610:21 745:19 772:19,20 835:11 promotes 626:17 promotes 626:17 promote 83:5,20 894:4 proceed 716:6 proceeding 80:21 provention 862:3 provention 862:3 proceed 978:6,8 production 613:18 prevention 862:3 provention 862:3 proceed 978:6,8 proceeding 970:18 privately 683:19 priva | | | problems 603:16 | | |
| 623:18 624:4,5 814:14 826:16 616:7,15,18,22 665:1 681:8 951:17 966:8 974:13,19 981:13 press 912:9,11 622:21 630:19 625:22 65:16,20 657:1,7 773:2 657:9,11,19,21 pressured 753:4 presumed 753:4 presumptively 685:2,22 695:14 presumptively 753:13 pretty 875:2 901:17 902:13 904:18 947:7 983:20 preventing 970:18 prevention 862:3 prevention 862:3 prevention 862:3 preview 658:11 previous 614:9 provides 60:9 848:4 proceed 716:6 producing 738:14 product 612:13 product 612:13 product 612:13 product 612:13 product 612:13 product 612:13 product 612:13 promise 709:16 promise 681:7 promotes 833:5,20 e83:15 proceeding 610:21 f1:1 623:6 689:2 proceeding 610:21 proceedings production 613:18 promotes 626:17 promotes 826:17 promotes 826:17 promotes 626:17 promotes 626:17 promotes 897:19 production 613:18 production 613:18 production 613:18 promotes 626:17 promotes 626:17 promotes 626:17 promotes 689:7 production 613:18 propoulcation 613:18 | | | | _ | project 673:17 |
| 951:17 966:8 617:6,12,17 618:2 696:19 709:1 671:9,10 projected 619:9 974:13,19 981:13 618:8,18 620:15 725:20 762:21 725:20 762:21 725:20 762:21 725:20 762:21 725:13 producing 738:14 projected 619:9 pressure 742:22 656:16,20 657:1,7 773:2 657:9,11,19,21 977:8 981:4 982:3 product 612:13 promise 709:16 promise 709:16 pressured 684:12 658:12,15 659:14 848:4 proceed 716:6 671:9,10 producing 738:14 promise 709:16 promise 709:16 promise 709:16 promise 709:16 promise 687:22 promise 709:16 promis | 623:18 624:4,5 | private 613:1 616:6 | 631:21 664:22 | | 674:2,14,19 679:8 |
| 974:13,19 981:13 618:8,18 620:15 725:20 762:21 producing 738:14 680:18 press 912:9,11 622:21 630:19 787:20 792:13 975:13 projects 983:6,8 pressured 742:22 657:9,11,19,21 658:12,15 659:14 procedures 609:9 613:16 614:17 promise 709:16 promise 681:7 promise 681:7 promise 681:7 promise 681:7 promise 681:7 promise 687:22 promise 626:17 promise 626:17 promote 626:9 83:11 promise 688:12 promise 687:22 promise 687:22 | 814:14 826:16 | | 665:1 681:8 | produces 670:19 | 707:4 983:11,14 |
| press 912:9,11 622:21 630:19 787:20 792:13 975:13 projects 983:6,8 pressure 742:22 656:16,20 657:1,7 977:8 981:4 982:3 product 612:13 proise 709:16 773:2 657:9,11,19,21 848:4 672:6 689:22 promise 709:16 pressured 684:12 660:7,13 684:22 proceeding 610:21 745:19 772:19,20 725:19 772:19,20 735:13 promote 833:5,20 presture 875:2 901:17 725:5,8,10,19 807:12 816:3 779:10 813:12 promote 826:17 promote 826:17 pol:13 904:18 731:14 828:22 922:6 83:15 963:2,8 production 613:18 promptly 839:5,15 promptly 839:5,15 promptly 839:5,15 promptly 839:5,15 promptly 839:5,15 promptly 839:5,15 propendeds 978:6,8 production 613:18 propended 65:17 propended 65:17 propended 65:18 propended 65:17 propended 65:17 propended 65:17 propended 65:17 propended 69:2 | 951:17 966:8 | 617:6,12,17 618:2 | 696:19 709:1 | 671:9,10 | projected 619:9 |
| pressure 742:22 656:16,20 657:1,7 977:8 981:4 982:3 product 612:13 promise 709:16 773:2 657:9,11,19,21 658:12,15 659:14 658:12,15 659:14 660:7,13 684:22 660:7,13 684:22 660:7,13 684:22 660:7,13 684:22 660:7,13 684:22 660:7,13 684:22 685:2,22 695:14 698:8 703:11 698:8 703:11 698:8 703:11 698:8 703:11 745:19 772:19,20 779:10 813:12 835:11 779:10 813:12 843:14 875:9,12 835:11 promoties 626:17 promoting 826:9 production 613:18 production 613:18 promoting 826:9 production 613:18 production 613:18 production 613:18 | 974:13,19 981:13 | 618:8,18 620:15 | 725:20 762:21 | producing 738:14 | 680:18 |
| 773:2 657:9,11,19,21 procedures 609:9 613:16 614:17 promised 681:7 pressured 684:12 658:12,15 659:14 848:4 672:6 689:22 promises 687:22 presumptively 685:2,22 695:14 proceeding 610:21 745:19 772:19,20 835:11 753:13 698:8 703:11 612:1 623:6 689:2 79:10 813:12 promotes 626:17 pretty 875:2 901:17 725:5,8,10,19 807:12 816:3 843:14 875:9,12 835:11 promotes 626:17 902:13 904:18 731:14 828:22 922:6 83:15 963:2,8 promoting 826:9 promptly 839:5,15 947:7 983:20 834:8 868:15 Proceedings 1001:19 615:11,20 670:22 proof 654:18 preventing 970:18 892:18,20 893:5 Proceeds 978:6,8 671:2,10 674:13 propane 966:15 propale 46:22 647:1 propellant 613:13 propellant 613:13 propellant 613:13 propellant 612:21 propellant 612:21 properly 816:6 860:7 properly 816:6 860:1 productivity 631 | press 912:9,11 | 622:21 630:19 | 787:20 792:13 | 975:13 | projects 983:6,8 |
| pressured 684:12 658:12,15 659:14 848:4 672:6 689:22 promises 687:22 presumed 753:4 660:7,13 684:22 proceed 716:6 691:2 721:1 promote 833:5,20 presumptively 685:2,22 695:14 698:8 703:11 698:8 703:11 612:1 623:6 689:2 779:10 813:12 835:11 promotes 626:17 pretty 875:2 901:17 725:5,8,10,19 807:12 816:3 843:14 875:9,12 835:11 promotes 626:17 902:13 904:18 834:8 868:15 Proceedings production 613:18 promoting 826:9 promptly 839:5,15 promote 689:7 promptly 839:5,15 promoting 826:9 promptly 839:5,15 promoting 826:9 promptly 839:5,15 promoting 826:9 promoting 826:9 promptly 839:5,15 promoting 826:9 promptly 839:5,15 promoting 826:9 production 613:18 615:11,20 670:22 671:2,10 674:13 propense 658:13 propense 658:18 628:11 634:14 628:11 634:14 628:11 634:14 936:22 productive 601:6 propellant 613:13 propellant 613:13 properly 816:6 860:7 properly 816:6 860:7 properly 816:6 860:7 productivity 631:2 property 618 | pressure 742:22 | 656:16,20 657:1,7 | 977:8 981:4 982:3 | product 612:13 | promise 709:16 |
| presumed 753:4 660:7,13 684:22 proceed 716:6 691:2 721:1 promote 833:5,20 presumptively 685:2,22 695:14 proceeding 610:21 745:19 772:19,20 835:11 753:13 698:8 703:11 612:1 623:6 689:2 779:10 813:12 promote 826:17 pretty 875:2 901:17 725:5,8,10,19 807:12 816:3 843:14 875:9,12 promoting 826:9 902:13 904:18 731:14 828:22 922:6 883:15 963:2,8 promptly 839:5,15 947:7 983:20 834:8 868:15 Proceedings production 613:18 promptly 839:5,15 790:15 855:19 892:18,20 893:5 Proceeds 978:6,8 671:2,10 670:22 proof 654:18 preventing 970:18 893:20 894:4 process 613:8 684:16 707:19 propane 966:15 preview 658:11 900:7,10 646:22 647:1 productive 601:6 772:15 945:19 properly 816:6 previous 614:9 privately 683:19 650:6 668:8 947:2 964:10 property 618:17 992:18 650:21 932:8 722:12 727:21 942:20 943:1,3,8 675:19 676:9 previously 619:14 679:5 791:15 | 773:2 | 657:9,11,19,21 | procedures 609:9 | 613:16 614:17 | promised 681:7 |
| presumptively 685:2,22 695:14 proceeding 610:21 745:19 772:19,20 835:11 753:13 698:8 703:11 612:1 623:6 689:2 779:10 813:12 promotes 626:17 902:13 904:18 731:14 828:22 922:6 843:14 875:9,12 promoting 826:9 947:7 983:20 834:8 868:15 Proceedings production 613:18 promptly 839:5,15 790:15 855:19 892:18,20 893:5 proceeds 978:6,8 671:2,10 674:13 propane 966:15 preventing 970:18 893:20 894:4 process 613:8 684:16 707:19 propale 966:15 preview 658:11 900:7,10 646:22 647:1 productive 601:6 proper 755:1 776:5 780:9 908:21 903:12 692:16 694:1 productivity 631:2 property 618:17 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 675:19 676:9 previously 619:14 679:5 791:15 965:15 774:16 780:8 products 613:5 proportionate | pressured 684:12 | 658:12,15 659:14 | 848:4 | 672:6 689:22 | promises 687:22 |
| 753:13 698:8 703:11 612:1 623:6 689:2 779:10 813:12 promotes 626:17 pretty 875:2 901:17 725:5,8,10,19 807:12 816:3 843:14 875:9,12 promoting 826:9 902:13 904:18 731:14 828:22 922:6 883:15 963:2,8 promptly 839:5,15 947:7 983:20 834:8 868:15 Proceedings production 613:18 promounce 689:7 790:15 855:19 892:18,20 893:5 proceeds 978:6,8 612:1 623:6 689:2 production 613:18 promptly 839:5,15 preventing 970:18 895:13,14 898:14 proceeds 978:6,8 671:2,10 670:22 proof 654:18 preview 658:11 900:7,10 646:22 647:1 936:22 propellant 613:13 previous 614:9 privates 897:19 650:6 668:8 947:2 964:10 properly 816:6 780:9 908:21 903:12 692:16 694:1 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 | | 660:7,13 684:22 | | | |
| pretty 875:2 901:17 725:5,8,10,19 807:12 816:3 843:14 875:9,12 promoting 826:9 902:13 904:18 731:14 828:22 922:6 883:15 963:2,8 promptly 839:5,15 947:7 983:20 834:8 868:15 Proceedings production 613:18 promounce 689:7 790:15 855:19 892:18,20 893:5 proceeds 978:6,8 671:2,10 670:22 proof 654:18 preventing 970:18 893:20 894:4 process 613:8 684:16 707:19 propane 966:15 preview 658:11 900:7,10 646:22 647:1 productive 601:6 propellants 612:21 799:11 800:11 privately 683:19 650:6 668:8 947:2 964:10 860:7 780:9 908:21 903:12 692:16 694:1 productivity 631:2 property 618:17 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 proportionate | presumptively | 685:2,22 695:14 | | | |
| 902:13 904:18 731:14 828:22 922:6 883:15 963:2,8 promptly 839:5,15 947:7 983:20 834:8 868:15 Proceedings production 613:18 promptly 839:5,15 790:15 855:19 892:18,20 893:5 1001:19 615:11,20 670:22 proof 654:18 preventing 970:18 893:20 894:4 proceeds 978:6,8 671:2,10 674:13 propane 966:15 preview 658:11 900:7,10 628:11 634:14 936:22 propellant 613:13 previous 614:9 privately 683:19 648:11,13 649:10 772:15 945:19 properly 816:6 992:18 903:12 692:16 694:1 productivity 631:2 property 618:17 992:18 650:21 932:8 722:12 727:21 942:20 943:1,3,8 675:19 676:9 992:18 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | | | | |
| 947:7 983:20 834:8 868:15 Proceedings production 613:18 pronounce 689:7 prevent 626:9 871:12 890:22 1001:19 615:11,20 670:22 proof 654:18 790:15 855:19 892:18,20 893:5 proceeds 978:6,8 671:2,10 674:13 propane 966:15 preventing 970:18 893:20 894:4 process 613:8 684:16 707:19 propellant 613:13 preview 658:11 900:7,10 646:22 647:1 productive 601:6 propellants 612:21 799:11 800:11 privately 683:19 650:6 668:8 947:2 964:10 properly 816:6 780:9 908:21 903:12 692:16 694:1 productivity 631:2 property 618:17 992:18 650:21 932:8 722:12 727:21 942:20 943:1,3,8 675:19 676:9 992:18 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | | | · | |
| prevent 626:9 871:12 890:22 1001:19 615:11,20 670:22 proof 654:18 790:15 855:19 892:18,20 893:5 proceeds 978:6,8 671:2,10 674:13 propane 966:15 preventing 970:18 893:20 894:4 proceeds 978:6,8 684:16 707:19 propale 966:15 preview 658:11 900:7,10 628:11 634:14 936:22 propellants 612:21 previous 614:9 privately 683:19 648:11,13 649:10 772:15 945:19 property 816:6 909:1 956:10 903:12 692:16 694:1 productivity 631:2 property 618:17 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 675:19 676:9 previously 619:14 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | | | | |
| 790:15 855:19 892:18,20 893:5 proceeds 978:6,8 671:2,10 674:13 propane 966:15 preventing 970:18 893:20 894:4 process 613:8 684:16 707:19 propane 966:15 prevention 862:3 895:13,14 898:14 628:11 634:14 936:22 propellant 613:13 previow 658:11 900:7,10 648:11,13 649:10 772:15 945:19 proper 755:1 776:5 previous 614:9 privates 897:19 650:6 668:8 947:2 964:10 property 618:17 909:1 956:10 privilege 605:9 710:16 715:22 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 675:19 676:9 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | | | | - |
| preventing 970:18 893:20 894:4 process 613:8 684:16 707:19 propellant 613:13 preview 658:11 900:7,10 628:11 634:14 936:22 propellant 613:13 799:11 800:11 privately 683:19 646:22 647:1 productive 601:6 proper 755:1 776:5 780:9 908:21 903:12 650:6 668:8 947:2 964:10 860:7 909:1 956:10 privilege 605:9 710:16 715:22 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 propertionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | - | | | , | |
| prevention 862:3 895:13,14 898:14 628:11 634:14 936:22 propellants 612:21 preview 658:11 900:7,10 646:22 647:1 productive 601:6 proper 755:1 776:5 799:11 800:11 privately 683:19 648:11,13 649:10 772:15 945:19 properly 816:6 780:9 908:21 903:12 650:6 668:8 947:2 964:10 860:7 909:1 956:10 privilege 605:9 710:16 715:22 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | • | | · · | |
| preview 658:11 900:7,10 646:22 647:1 productive 601:6 proper 755:1 776:5 799:11 800:11 privately 683:19 648:11,13 649:10 772:15 945:19 proper 755:1 776:5 780:9 908:21 903:12 650:6 668:8 947:2 964:10 860:7 909:1 956:10 privilege 605:9 710:16 715:22 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 productive 601:6 772:15 945:19 property 816:6 | | | | | |
| 799:11 800:11 privately 683:19 648:11,13 649:10 772:15 945:19 properly 816:6 780:9 908:21 903:12 692:16 694:1 productivity 631:2 property 618:17 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 675:19 676:9 previously 619:14 779:15 774:16 780:8 943:12,19 944:14 770:10,13,14 | | • | | | |
| previous 614:9 privates 897:19 650:6 668:8 947:2 964:10 860:7 780:9 908:21 903:12 692:16 694:1 productivity 631:2 property 618:17 909:1 956:10 privilege 605:9 710:16 715:22 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | - | • | | _ | |
| 780:9 908:21 903:12 692:16 694:1 productivity 631:2 property 618:17 909:1 956:10 privilege 605:9 710:16 715:22 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | | · · | | |
| 909:1 956:10 privilege 605:9 710:16 715:22 942:20 943:1,3,8 675:19 676:9 992:18 650:21 932:8 722:12 727:21 943:12,19 944:4,4 700:20 777:5 previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | • | _ | | | |
| 992:18 | | | | | |
| previously 619:14 privileges 965:13 733:9 739:5,22 944:6,10,10,13,14 proportionate 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | _ | | | |
| 679:5 791:15 965:15 774:16 780:8 products 613:5 638:7 | | | | The state of the s | |
| | | _ | | | |
| 0/0.4 000.3 proactively 011:9 /81:8 /82:22 089:21 094:4 proposals 9/4:22 | | | | | |
| 1 1 1 | 0/0:4 880:3 | proactively 011:9 | 101:0 102:22 | 009:21 094:4 | proposais 9/4:22 |
| | | 1 | | 1 | 1 |

| | | | | 1490 1013 |
|---|---|--|--|---|
| 977:10 | 602.4 766.14 17 | nunguont 670:15 | 620.16.642.16 | quicker 705:10 |
| proposed 674:5 | 693:4 766:14,17 822:12 828:5 | pursuant 679:15 pursue 740:9 | 629:16 642:16 647:9 650:19 | quickly 601:14 |
| 682:1 994:22 | 834:14 835:9 | 923:14 | 654:20 657:18 | 635:3 660:17 |
| proposes 610:9 | 871:6 944:20 | | | |
| 1 | | pursued 777:21 | 661:17 662:16,18 | 733:15,17 794:19 |
| proprietary 777:6 | 966:4 | 925:21 | 663:6,16 668:6 | 795:1 813:7 |
| 793:7 | provision 680:8 914:6 | pursuing 602:19 | 675:16 679:19 | 830:13,20 832:11 |
| protect 813:11 | provisions 799:19 | 627:5 633:18 | 711:17 722:2 | 857:6 878:14 |
| 835:3 protections 956:10 | | 777:12 827:20 | 724:18 732:8 | 893:22 902:20 |
| - | proxy 997:6,7 | pushed 988:14 1006:12 | 740:19 742:10 769:20 786:14 | 911:12 913:4 |
| protective 642:4 | prudent 798:7 799:9 825:1 | | 787:4 793:20 | 914:16 915:3,9 916:6 919:17 |
| protest 649:1 | | pushes 998:6 | 796:3 798:12 | |
| proud 825:13 | PSR 630:4,8,15 | put 627:13 632:17 | | 951:2 |
| 1001:15 | 663:20 664:1,19 | 647:10 650:1 | 824:15 840:22 | quiet 708:4 |
| prove 737:22 738:3 | 665:16 666:4,7 | 701:6 722:21 | 852:13 861:12 | quit 711:2 |
| 775:14 | 667:12,16 742:3 | 730:15 738:2 | 889:15,18 892:1 | quite 725:3 731:6 |
| provide 605:4 | 823:2,3,3 905:1 | 752:19 756:22 | 893:13 911:7 | 741:12 844:20 |
| 609:8 610:16 | 953:19 954:3,5 | 758:20 763:19 | 912:14 914:1,3,18 | 847:16 862:18 |
| 642:4 668:8 | 955:12,16 956:19 | 787:14 799:4 | 916:8,8 917:12,13 | 912:9 917:17 |
| 683:16 695:7 | 960:16 965:19 | 808:8,22 841:15 | 917:16 918:7 | 1001:7 |
| 739:5 767:2 771:7 | 975:3,10,12,16,17 | 841:17 853:6 | 920:13 921:12,15 | quote 678:16 733:4 |
| 773:18 775:22 | 975:19 982:4,8 | 856:18 861:7 | 922:6 923:7 925:4 | 956:14 |
| 777:3 778:4 | 988:13 994:8 | 919:3 921:14 | 927:7 933:4 946:3 | R |
| 799:21 804:16 | public 642:1 686:9 | 929:18 931:11 | 979:4 982:12 | |
| 810:12 816:9 | 772:11,12,18 | 933:17 938:22 | 986:19 988:10 | R 601:1 |
| 817:20 818:3 | 963:14 | 941:21 964:2 | 991:20 998:9,22 | R-1's 878:5 |
| 820:10 821:5 | publicize 733:22 | 998:19 1003:16 | 999:20 | Rachel 1002:12 |
| 824:11 826:11 | publicized 734:1 | 1007:16 | questionable | Rackson 1002:18 |
| 833:8 834:6 | publicly 952:11 | puts 808:4 | 1006:7 | rail 600:12,16 |
| 839:11 840:17 | publish 686:9 | putting 677:20 | questioning 708:18 | 603:4,12 607:7 |
| 850:6 861:8 | published 613:22 | 701:12 768:1 | 889:13 | 608:9,11 609:14 |
| 862:14 870:12 | 678:15 686:10 | 930:3 942:2 | questions 610:7 | 612:3 613:10 |
| 891:16 897:21 | puffs 983:2 | 992:20 1003:2 | 611:12 632:1,4 | 618:10 619:3 |
| 907:4,21 910:7 | pull 619:6 677:11 | puzzled 784:8 | 640:21 646:22 | 621:20 622:14 |
| 927:12 959:14 | 684:19 702:11 | puzzling 904:21 | 658:11 686:2 687:5 693:5 704:4 | 623:8 624:9,11 |
| 961:20 962:6,12 | 794:19 819:17 | 0 | | 626:5 653:20 |
| 964:6 977:5 | pulled 683:1 | | 708:19 731:6 | 654:2 671:11 |
| 1004:22 | pulling 649:5 | quadrupled 766:21 | 734:5 758:3 | 674:1,4,16,22 |
| provided 622:9 | pulls 926:19 | qualified 874:12 | 767:20 783:3 | 675:1,3,6,12 |
| 663:19 684:12 | pun 932:5 punitive 695:5 | qualify 874:11 quality 671:19 | 814:8 820:19 | 676:6,10,15 685:7 685:12 686:16,21 |
| 702:20 751:22 | L DIMINIAG DAD. J | | | |
| | _ | | 825:15 826:5 | |
| 775:11,15 795:5 | 959:8 | 674:7 | 837:17,18 842:14 | 697:6 703:3,4 |
| 775:11,15 795:5 816:17 824:6 | 959:8 purchase 659:5 | 674:7 quantity 614:3 | 837:17,18 842:14 846:12 847:9,13 | 697:6 703:3,4 719:4 730:11 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 | 959:8 purchase 659:5 674:5,14 949:14 | 674:7 quantity 614:3 quarter 715:19 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 provides 618:10 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 609:19 642:17 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 959:1 997:21 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 quick 653:5 668:6 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 813:17 815:5,7,8 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 provides 618:10 620:16 809:1 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 609:19 642:17 645:12 743:22 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 959:1 997:21 quarterly 769:8 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 quick 653:5 668:6 732:8 744:20 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 813:17 815:5,7,8 815:12,13,19,21 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 provides 618:10 620:16 809:1 817:13 836:15 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 609:19 642:17 645:12 743:22 832:9 835:5 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 959:1 997:21 quarterly 769:8 908:11 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 quick 653:5 668:6 732:8 744:20 749:9 794:16 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 813:17 815:5,7,8 815:12,13,19,21 823:21 824:21 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 provides 618:10 620:16 809:1 817:13 836:15 837:21 964:21 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 609:19 642:17 645:12 743:22 832:9 835:5 852:20 977:1 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 959:1 997:21 quarterly 769:8 908:11 quarters 903:20 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 quick 653:5 668:6 732:8 744:20 749:9 794:16 798:12 802:22 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 813:17 815:5,7,8 815:12,13,19,21 823:21 824:21 826:7,12 827:20 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 provides 618:10 620:16 809:1 817:13 836:15 837:21 964:21 providing 618:10 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 609:19 642:17 645:12 743:22 832:9 835:5 852:20 977:1 purposes 621:13 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 959:1 997:21 quarterly 769:8 908:11 quarters 903:20 905:14,22 908:19 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 quick 653:5 668:6 732:8 744:20 749:9 794:16 798:12 802:22 876:4 888:8 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 813:17 815:5,7,8 815:12,13,19,21 823:21 824:21 826:7,12 827:20 828:5,5 829:1 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 provides 618:10 620:16 809:1 817:13 836:15 837:21 964:21 providing 618:10 622:10 625:6 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 609:19 642:17 645:12 743:22 832:9 835:5 852:20 977:1 purposes 621:13 749:13 811:5 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 959:1 997:21 quarterly 769:8 908:11 quarters 903:20 905:14,22 908:19 909:2 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 quick 653:5 668:6 732:8 744:20 749:9 794:16 798:12 802:22 876:4 888:8 937:18 968:7 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 813:17 815:5,7,8 815:12,13,19,21 823:21 824:21 826:7,12 827:20 828:5,5 829:1 830:2,16 831:14 |
| 775:11,15 795:5 816:17 824:6 833:13 929:7 977:12 provider 625:4 631:15 695:19 providers 780:1 781:17 815:9 978:3,5,7 provides 618:10 620:16 809:1 817:13 836:15 837:21 964:21 providing 618:10 | 959:8 purchase 659:5 674:5,14 949:14 962:12,19 purchased 676:9 purchasing 597:20 659:16 670:15 purely 774:6 959:8 purpose 606:6 609:19 642:17 645:12 743:22 832:9 835:5 852:20 977:1 purposes 621:13 | 674:7 quantity 614:3 quarter 715:19 769:9 823:13 902:11,12,14,14 903:7,8 905:10,10 905:13,13,19,19 905:20,21 906:8,9 908:6,7,15 958:19 959:1 997:21 quarterly 769:8 908:11 quarters 903:20 905:14,22 908:19 | 837:17,18 842:14 846:12 847:9,13 857:7,19 869:12 883:19 909:10 922:15 929:14 933:8 935:18 948:5 961:6 979:1 982:2 queue 806:1,2 quick 653:5 668:6 732:8 744:20 749:9 794:16 798:12 802:22 876:4 888:8 | 697:6 703:3,4 719:4 730:11 754:19,19 755:8 771:10 780:3,4,6 780:7,10,15,18 781:2 789:12 795:4 804:15,17 805:18 806:20 807:20 811:1 813:17 815:5,7,8 815:12,13,19,21 823:21 824:21 826:7,12 827:20 828:5,5 829:1 |

| | 1 | | 1 | 1 |
|---------------------|--------------------|---------------------|------------------------|----------------------|
| 835:4 854:3 873:2 | 666:11,12 667:5 | 738:19 758:22 | 861:5 867:8 | 859:15 862:20 |
| 874:4 909:10,15 | 667:18 671:1,3 | 916:19 927:11 | 876:21 878:3 | 864:22 865:1 |
| 909:19 910:11 | 672:13 675:21,22 | 949:4 953:9,11 | 887:7 913:13 | 875:20 914:20 |
| 951:9,19,22 952:7 | 679:16 682:11,15 | 958:15 960:19 | 915:11,15 923:12 | 957:15 975:7 |
| 952:10,19,19 | 682:19 683:19 | railroad-caused | 925:13,14 929:22 | 978:16 |
| 958:4,11,17 | 684:1 685:20 | 850:11 | 932:21 933:11 | rated 773:19 |
| 961:13 962:11,16 | 691:12 692:8 | railroad-controlled | 940:4 949:11 | rates 625:21 633:7 |
| 963:6,9 964:6,16 | 695:11 696:14 | 616:10,13 | 953:1,2 956:4,22 | 641:10,11 642:8 |
| 966:6,8,19 974:11 | 700:22 702:3,14 | railroad-owned | 958:17 960:8,12 | 643:12 659:11 |
| 974:14 | 700:22 702:3,14 | 892:5 | 961:21 962:8 | 686:5,9,10 698:21 |
| rail-owned 828:22 | 720:7,7 721:2 | railroading 608:4 | 963:4,11 964:10 | 706:4,6,9 709:18 |
| rail-related 673:17 | 723:12 725:9 | 630:9 673:7 710:4 | 965:17 968:13 | |
| | | | | 709:19,19 716:20 |
| rail-way 928:22 | 727:18 728:21 | 717:15,22 746:14 | 969:17 971:4,19 | 716:21 722:8,22 |
| railcar 603:9 604:3 | 740:1,2 743:3 | 825:11 828:15 | 972:19,22 976:3 | 724:2,8 780:15 |
| 627:2 683:19 | 748:13 750:20 | 830:20 843:22 | 979:12,17 980:11 | 819:2 823:19 |
| 696:20 773:22 | 751:14,18 752:1,2 | 844:15 887:15 | 980:16 981:16 | 824:2,5 858:6 |
| 776:4 829:12 | 762:8 766:9 767:8 | 889:9 953:8 | 982:22 988:15 | 867:10 874:1 |
| 833:13 834:8 | 771:20 775:9 | 963:18 965:7 | 990:3 997:1 | 890:11 934:2 |
| 954:12 961:17 | 776:4,13 785:4,21 | 975:3 | 1005:12,22 | 964:7 972:7 |
| 962:8 | 786:1,4 789:22 | railroads 604:7,13 | 1006:7 1007:1 | 977:14 978:17 |
| railcars 606:10 | 793:10,17 796:8 | 604:22 605:4 | railroads' 956:1 | ratio 666:5 762:12 |
| 622:2,5,12 626:18 | 797:20 798:2 | 606:22 607:4 | rails 672:8 877:1 | rational 607:16,19 |
| 672:17 678:18,20 | 800:5 801:20 | 608:2,16 609:8,18 | railway 597:12 | 867:21 |
| 683:18 688:18 | 803:11 807:21 | 610:17 611:6 | 599:3,7,11 690:5 | raw 613:17 615:12 |
| 691:6,16 696:1,22 | 810:6 829:8 846:2 | 619:2,22 623:2,4 | 690:7 814:15 | 689:22 690:3 |
| 697:7 698:3 699:4 | 856:8,14 860:3,8 | 624:9 627:15 | 825:21 868:16 | 694:4 |
| 699:7,20,22 | 865:11 874:14,20 | 628:13 629:5 | 952:14 | reach 847:6 918:22 |
| 701:16 703:6 | 880:2,15 881:5 | 642:14 648:19 | Raina 1001:19 | react 813:7 842:16 |
| 728:1,2 744:9 | 882:1 885:14 | 650:12 657:18 | Rainey 597:10 | reaction 663:1 |
| 754:2 773:19 | 892:15 893:5,20 | 658:5,19 659:5 | 612:18 | 841:3 930:16 |
| 775:1,16,19 778:3 | 894:2,19 904:21 | 661:7 663:19 | raise 645:13 707:9 | read 624:16 663:13 |
| 781:3 790:8 795:3 | 905:9 910:14 | 664:5 665:6 668:2 | 797:19 818:13 | 663:14 757:22 |
| 815:6,13 832:8 | 911:8 924:7,16,18 | 671:5 672:10 | 822:17 837:17 | 910:3 1001:16 |
| 834:21,22 881:15 | 930:2 932:20 | 685:16 686:8 | 987:16 | readily 878:7 |
| 912:2,19 955:3 | 934:21 936:16 | 687:1,19 690:10 | raised 818:18 819:4 | reading 663:1 |
| 958:21 961:20 | 939:20 952:13 | 691:3,14,22 692:3 | 1005:12 | 669:2 795:1 |
| 962:13 965:17 | 954:2 960:2,16 | 692:6,6,12,20 | raises 610:7 838:20 | ready 617:3 708:3 |
| 966:13 976:11 | 961:3 963:1 964:1 | 695:6 702:20 | raising 721:20 | 730:18 802:16 |
| railroad 604:16,17 | 966:18,21 967:5,6 | 703:10 714:14 | ramifications 702:8 | 976:20 |
| 605:21 606:16 | 968:12 969:7,14 | 716:4,11,15 721:4 | Ramirez 1002:15 | real 688:13 787:17 |
| 607:18 608:14,20 | 970:18 973:7,15 | 721:13 726:1 | ramp 876:6,6 | 806:4 817:8 |
| 609:12,14,21 | 978:12 983:9,18 | 730:22 731:1 | Randel 598:18 | 820:17 830:20 |
| 610:4,15 615:11 | 987:9 990:7,14,15 | 740:9 756:11,18 | 778:18,20 785:6,9 | 831:8 940:17 |
| 616:12 617:21 | 990:15 991:12,15 | 757:14 759:7 | 785:13 806:22 | 971:22 |
| 621:10,11,13 | 991:18,22 992:1 | 761:16 762:2 | range 603:16 771:1 | realistically 697:18 |
| 622:6 623:19,20 | 992:21 997:22 | 763:3 764:2 | ranging 827:3,22 | reality 628:8 701:8 |
| 625:5 626:6 | 998:15 999:9,12 | 765:21 766:21 | rapidly 962:9 | 885:5 924:9 |
| 627:12 628:20 | 999:16 1001:8 | 768:10,13,21 | rate 602:17,20 | realize 619:11 |
| 629:6 631:16 | 1005:10,16 | 771:22 772:14 | 641:15,16,19 | 625:5 629:12 |
| 634:22 635:7 | railroad's 609:1,6 | 773:15,16 774:7 | 644:4 682:4 711:7 | 631:16 633:15,16 |
| 637:22,22 640:12 | 609:15 610:8 | 774:19,21 775:12 | 711:8 722:18 | 845:19 888:18 |
| 640:18 648:6 | 620:6 622:15 | 775:16,21 776:12 | 723:1,2,9,13,19 | realized 607:18 |
| 654:14 655:9 | 673:6 678:1 682:8 | 777:11,15,17 | 761:11,18,19,21 | 625:20 |
| 656:13 658:8,17 | 682:10 684:20 | 778:4,9 783:3,7 | 762:16 788:7 | really 604:8 640:17 |
| 658:20 659:3,9,11 | 689:4 690:13,15 | 792:9,11,14 | 822:1,4,8 849:16 | 645:14 646:13 |
| 660:15 665:8 | 692:16,18 696:12 | 793:22 828:3 | 858:7 859:7,11,12 | 661:5 670:12 |
| | l | <u> </u> | l | l |
| | | | | |

| | | _ | _ | |
|--------------------------------------|---|-------------------------------------|--|--|
| 678:7 695:7 | 703:22 711:18 | 640:3 728:22 | recommendations | referring 669:6 |
| 705:21 706:11 | 718:16,18 719:13 | 746:20 757:19 | 603:21 972:16,17 | 708:8,11 |
| | | | 978:21 | · · |
| 710:5 715:10 | 723:5 749:20 | 762:9,14 763:20 | | refined 771:2 refiners 966:12 |
| 718:8 719:10,13 | 753:11,22 768:15 | 767:19 788:4 | reconfigure 703:5 reconsider 687:19 | |
| 720:9,11 731:4 | 824:10 842:18 | 794:12 796:5 | | refinery 985:13 |
| 744:6,10,10 | 843:3 856:10,15 | 803:6,6 811:6 | 779:18 887:2 | reflect 957:11 |
| 747:21 754:1,1,7 | 860:2,11,12 869:3 | 812:1 836:8 850:2 | record 602:2 641:7 | reflected 816:6 |
| 754:15 755:14 | 869:13,22 870:3,4 | 870:8 887:21 | 708:6 741:16 | 824:6 |
| 764:3 769:21 | 870:6 873:14,18 | 917:2 931:2 | 799:4 829:17 | reflection 822:9 |
| 770:3,5 778:21 | 879:20 915:17,18 | 945:13 947:18 | 846:8 888:13 | 823:17 |
| 779:4 781:12,21 | 915:20 916:3 | receiver's 747:5 | 932:3 963:12 | reflective 901:19 |
| 782:6,16 784:4 | 925:22 926:9 | 756:15 803:15 | 1003:7 | reflects 828:12 |
| 785:17 795:10 | 927:16 933:12 | receivers 641:5 | record- 827:22 | reform 602:17 |
| 801:19 845:4,11 | 934:2,11,14 937:7 | 664:1 756:13 | records 817:4 856:3 | 781:9 978:16 |
| 850:12 858:17 | 938:8 942:11 | 757:7 759:12 | 957:17,18,19 | refrigerant 613:7 |
| 859:4 861:2 | 956:15 964:7,7 | 763:22 812:3 | recounted 963:19 | refrigerated 598:17 |
| 872:20 877:4,14 | 978:17,17 | 815:11 817:7 | recoup 711:1 | 778:21 779:9 |
| 881:12 882:10 | reasonableness | 822:19 832:10,16 | recourse 607:7 | refund 650:22 |
| 893:22 907:6,7 | 607:12 610:15 | 832:20 833:22 | 777:21 778:1 | 932:8 |
| 909:4 912:8 913:9 | 621:7 724:8 873:5 | 835:20 837:8,16 | recover 615:19 | refusal 692:18 |
| 917:17 918:2 | 876:15 879:3 | 837:22 838:22 | 868:22 915:12 | refuse 768:11 |
| 920:12 925:13 | 882:17 885:2,16 | 839:12,15 840:12 | recovered 915:5 | refused 777:16 |
| 927:15 933:12 | 886:6 925:19 | 840:16,18 872:12 | recovering 869:15 | regard 607:5 627:5 |
| 935:16 937:12,13 | 926:2 934:18 | 879:19 933:16 | 957:14 | 703:19 808:14 |
| 940:17 946:2 | 935:4 936:8 937:3 | 962:15 | recovery 862:16 | 831:18 869:6 |
| 950:19,21 967:4 | 938:17 947:15 | receives 613:15 | 975:16 | 899:17 958:12 |
| 968:19 969:2 | 948:4 999:2,3 | 614:14 672:5 | recycler 693:17 | regarding 678:14 |
| 970:17 971:2 | reasonably 690:13 | 679:1 772:20 | recycling 598:5 | 704:1 705:4 815:4 |
| 973:10,11 982:7,7 | reasons 604:11 | receiving 610:5 | 670:6 693:15,16 | 819:2 826:3 836:8 |
| 983:16 985:8 | 638:3 664:4 683:2 | 622:5 685:10 | 693:18,22 694:1,5 | 837:18 952:1 975:1 |
| 992:3 994:9 | 729:18 786:10 | 686:19 704:10 | 694:6 695:10 | |
| 997:18 998:6 | 790:9 811:5 | 706:3,10 739:15 | 697:21 703:18 | regardless 608:20 |
| 1001:9 1002:21 1003:6,19 1004:3 | 849:15 884:4 904:9 933:17 | 795:3 817:20 888:10 918:4 | red 601:19 937:15 redact 734:1 | 610:5 749:15 Regena 1002:2 |
| 1003:0,19 1004.3 | Reauthorization | | | C |
| | | recipe 702:14 | redoing 712:17 | regime 657:2,22 |
| 1005:18 1006:13 | 611:9 | reciprocal 703:11 | reduce 606:12 | 658:16 |
| 1007:3 | Rebecca 1001:22 rebounded 666:10 | 704:1 953:3 | 629:14 646:4 | regiment 675:9 |
| rearview 844:1 reason 634:7 645:3 | | reciprocity 609:11 609:12 615:17 | 750:9 824:5 837:10 985:17 | region 599:13 694:9 694:14 826:16 |
| | 666:11,12,22 | 690:12 953:14 | reduced 616:5,10 | |
| 647:15 658:16 665:16 668:18 | receipts 774:4 receive 613:17 | 958:13 960:18 | 666:8 674:8 | Regional 598:6 693:14 694:7 |
| 719:2 735:1 | 617:8 691:1 | 965:12 975:21 | 812:13 829:2 | regions 671:15 |
| 740:22 851:22 | 696:21 697:6 | 977:16 996:2 | 908:19 929:8 | 709:20 809:10 |
| 852:17 860:1 | 705:8 730:17 | recognition 965:13 | 954:21 977:14 | Regis 600:14 974:5 |
| 925:3 946:18 | 755:21 760:16 | recognize 700:21 | reducing 826:19 | 974:8 981:7,21 |
| 949:10 950:16 | 799:17 824:17 | 703:22 758:11 | 828:16 830:17 | 995:18 997:17 |
| 968:16 | 837:13 838:20 | 780:18 895:16 | 964:9 983:5 | 1000:7 |
| reasonable 607:9 | 952:14 954:11 | 953:9 | reduction 604:1 | registered 838:19 |
| 608:16 618:5 | 975:8,20 | recognized 660:19 | 622:21 633:8 | regrettable 650:4 |
| 620:20 621:10 | received 612:22 | 815:20 886:5 | 651:10 673:13 | regular 831:12 |
| 622:16 633:15 | 614:9 683:9 688:4 | 909:14 910:10 | 678:19 742:4 | 933:3 977:13 |
| 634:22 648:13 | 688:11 800:21 | recognizes 954:19 | 975:16 982:5 | regularly 644:14 |
| 663:6,10 679:17 | 820:21 821:1 | recognizing 779:1 | redundancy 971:15 | 645:9 690:8 |
| 679:19,22 683:12 | 843:13 855:3 | recommend 781:15 | 982:13,15 983:17 | regulation 632:14 |
| 685:4 686:12 | 976:19 | recommendation | Reed 847:5 | 912:11 |
| 687:7 702:5 703:2 | receiver 638:3 | 972:18 | refer 694:11 | regulatory 597:4 |
| 00, 102.0 103.2 | | J . 2.10 | | |
| | | | | |

| 599:17 825:20 | relevant 837:4 | 978:16 979:21 | 705:11 784:2 | 912:12 917:12 |
|-----------------------------------|--|----------------------------------|------------------------------------|--------------------------------|
| 884:1,17 | 860:6 935:1 | 1003:2 | 798:19 918:10 | 920:12 971:5 |
| reimbursement | reliability 630:12 | reported 623:4 | 921:5 927:8 928:4 | respectfully 618:7 |
| 960:4 | 688:19 954:21 | 817:15 878:4 | requirements 611:4 | respective 890:13 |
| reinvest 829:21 | 955:14 969:10 | 953:17,18,22 | 662:10,11 674:7 | respond 611:6 |
| reiterate 604:6 | 971:18 991:16,17 | 955:9 957:13,21 | 690:4 703:10 | 633:21 634:3,20 |
| 782:3 | reliable 630:9 | reporting 665:6 | 816:21 953:3 | 634:22 635:3 |
| reiterating 782:18 | 680:21 683:16 | 691:16 817:9 | 956:1 960:19 | 747:9 810:14 |
| 815:2 | 813:11 823:4 | 954:18 957:15 | requires 605:12 | 818:17 830:19 |
| rejected 737:4 | 824:18 828:5 | reports 665:14,14 | 679:16 823:21 | 838:8,16,17 |
| relate 618:8 620:15 | 968:21 971:17 | 816:18,22 837:5 | 839:4 862:14 | 855:12 857:4 |
| 696:13 817:9 | 972:2 | 958:9 | 909:10,18 910:1 | 891:22 922:4 |
| 843:15 865:3 | reliance 690:6 | represent 627:19 | 911:1 913:11 | 923:2 937:14 |
| 975:2 | reliant 757:14 | 627:20 685:6 | 918:4 923:10 | 978:22 979:7 |
| related 618:1,13,14 | relied 691:18 956:8 | 686:14 821:8 | requiring 606:16 | 1003:9 |
| 620:17 679:17 | relief 620:3 | 949:22 961:22 | 775:4 959:19 | responded 847:3 |
| 691:21 751:14,14 | relies 957:18 | 981:9 | reroute 730:10 | 962:15 |
| 751:15 775:16 | relieve 699:17 | representation | reroutes 629:8,9 | respondent 917:9 |
| 849:17,19 890:1 | reluctant 736:20 | 910:15 | rerun 976:11 | responding 818:16 |
| 928:21 963:17 | rely 680:18 808:13 | representations | research 620:13 | 854:19 |
| 966:6 | relying 945:10 | 709:12 | 913:22 | responds 838:21 |
| relates 732:1 | remain 696:16 | representative | reservation 978:5 | response 624:17 |
| relating 809:5 | 959:5 1007:5 | 673:7 731:20 | resilience 791:2 | 699:1 733:16 |
| relation 905:8 | remained 684:18 | 809:20 810:19 | 830:3,19 | 856:7,9,14,16 |
| 910:7 | remains 617:9 | 818:2 968:1 | resiliency 828:13 | 861:9 889:20 |
| relations 794:9 | 797:6 | representatives | resilient 630:13 | 923:9 936:2 |
| relationship 608:8 | remarkable | 731:16 766:6 | resolution 777:13 | 1006:3 |
| 644:10 794:10 | 1003:19 1005:18 | 1001:8 | 781:8 782:22 | responses 602:4 |
| 796:8 798:3,5 | remarks 601:20 | represented 781:3 | 798:6 819:6 | 841:5 854:22 |
| 841:19 962:7 | 602:15 722:3 | represents 770:20 | 835:16 837:14,20 | responsibilities |
| relationships 752:2 | 771:14 | 808:10 962:3 | 838:5 839:19 | 861:5 945:7 |
| 764:3 846:4 | remedy 683:12 | 963:5 985:11 | 918:16 920:8 | responsibility |
| 964:10 | remember 761:22 | request 605:3 | 999:21 | 656:12,14 771:17 |
| relative 650:9 | 762:19 887:11 | 647:17 681:22 | resolve 610:19 | 773:10 810:6 |
| 657:13 658:12 | remind 601:14 | 690:22 800:15 | 631:21 634:8,9 | 824:15,21 837:10 |
| 727:10 747:3 | reminds 765:14,15 | 816:19 818:5 | 690:13 722:15 | 840:7,12 860:8 |
| 753:6 754:4 873:7 | remit 923:15 | 826:13 834:5 | 743:4 755:2,14,15 | responsible 604:18 |
| 893:20 943:12,18 | remove 778:13 | 840:1 894:16 | 795:20 810:16 | 624:7 653:8 664:4 |
| relatively 613:14 | 853:1 | 960:12 | 838:21 839:1 | 692:4 792:21 |
| 733:17 971:9 | removed 854:4 | requested 654:4 | 920:7 | 795:6 796:10 |
| 979:20 | 956:8 997:1 | 655:13 820:13 | resolved 629:20 | 805:13 826:17 |
| release 678:4,17 713:17 756:16 | Removing 681:21 Rena 1001:20,21 | requests 811:17 816:16 908:12 | 647:4 665:1 851:10 877:12 | 837:21 838:14 840:10 848:19 |
| 810:3 831:15 | renewable 771:3 | 926:19 | 879:12 | 892:7,7 904:17 |
| 868:16 894:21 | renewable 7/1:3 reopen 874:15 | 926:19 require 673:22 | resolving 967:10 | 917:22 953:2 |
| 941:22 951:1,2 | reopen 874:13 repair 961:17 | 829:3,5,8 856:12 | resorving 967:10 resonate 936:4 | 959:17 966:8 |
| 978:16 985:3,9 | 964:13 | 909:15 918:4 | Resource 600:14 | responsive 813:15 |
| 988:19 989:3,11 | repeat 812:9 1003:5 | 926:10 | 974:9 | 839:11 |
| released 684:18 | repeated 731:11 | required 674:14 | resources 666:13 | rest 601:8 735:3 |
| 687:14 728:3 | repetitive 940:22 | 702:17 783:4,16 | 667:6 808:4 | 739:7 794:5 |
| 751:18 756:13 | replete 922:16 | 783:18 794:2 | 877:20 879:1,8 | 873:16 |
| 789:17 803:15 | reply 1005:22 | 829:10 911:8 | 880:7 886:14 | restate 998:21 |
| 811:16 815:15 | 1006:2 | 917:19 923:12 | 936:21 956:1 | restore 813:7 |
| 837:3 911:12 | report 602:17 | 929:4,6 952:22 | 959:22 967:5 | restrain 789:20 |
| releases 812:5 | 701:19 785:14 | 978:3,7 | respect 601:15 | result 603:7 614:19 |
| relentless 825:3 | 954:15 958:22 | requirement | 729:10 881:6 | 615:7 616:13,17 |
| | | _ | | |
| t | | | | |

| | | | | Page 1047 |
|-----------------------------|---------------------------|--|-------------------------|---------------------------------|
| 510 2 510 1 7 | 000 640 054 45 | 004.00.00.00.00.00.00.00.00.00.00.00.00. | | l |
| 618:2 619:15 | 839:6,18 854:17 | 894:20 895:7,16 | 755:15 758:7 | S |
| 629:9 636:18 | 918:17 926:11 | 896:15 915:14 | 842:4 888:12 | S 601:1 |
| 656:3 666:15 | 930:19 | 916:17 931:19 | 935:5 964:19,19 | S.W 596:8 |
| 667:16 681:9 | reviewed 687:12 | 932:9 933:19 | 1007:8 | SA 598:5 670:6 |
| 684:5 686:1 687:3 | 808:21 817:1,16 | 934:1 942:15,19 | root 904:16 | 693:15,16 694:5 |
| 688:7 690:9 | 836:9 | 942:21 943:9,13 | roughly 733:14 | 695:10 703:17 |
| 691:17 696:1,2 | reviewing 807:11 | 945:14 946:5,11 | 966:13 984:15 | SA's 694:13 |
| 735:7,13 739:1 | 872:2 | 946:14,22 949:6 | route 604:18 620:4 | sacrificial 981:9 |
| 843:14 877:12 | revise 797:10 | 983:21 985:7 | 621:21 811:3,10 | safe 683:16 826:7 |
| 906:20 952:17 | revision 778:2 | 987:19 988:7 | 813:2 814:4 931:4 | 828:3 835:6,11 |
| 955:3 960:16 | 836:4,12 | 991:1 993:21,22 | routine 878:10 | 978:11 |
| 973:19 975:7 | revisit 797:4 | 994:4,14 995:3,10 | row 707:6 | safely 831:1 874:5 |
| 981:4 | revisiting 781:14 | 995:13 997:6,11 | rule 608:8 610:8 | safety 807:18 |
| resulted 665:17 | 782:19 | 997:14 998:18 | 614:20 618:17 | 828:16 834:19 |
| 684:15 694:14 | revolve 997:22 | right- 698:18 | 620:20 649:9 | 835:2,3 884:6,9 |
| 696:19 776:7 | rewarding 960:18 | right-hand 675:17 | 669:13 678:21 | sales 611:17 827:12 |
| 982:4 | rid 768:14 769:19 | 676:7 | 679:22 683:4 | sanctioned 702:21 |
| resulting 614:4,16 | 798:18 | rightfully 745:11 | 714:4 758:19 | Sandra 597:8,18 |
| 690:21 812:4 | ride 769:13,14 | 745:14 | 774:5,16 777:17 | 611:13,14 623:11 |
| 840:11 | ridiculous 763:17 | rights 671:7 973:16 | 777:18,19 784:10 | 652:2 656:15 |
| results 616:4 | right 632:19 634:6 | 973:18 | 784:19 797:10,13 | 658:7 660:18 |
| 620:13 640:1 | 634:11,16,16 | ripple 829:7 950:14 | 801:17 838:12 | 661:13 662:17 |
| 708:8 | 636:19 637:2,20 | rising 698:5 | 879:10 914:11 | 666:1 670:6 704:7 |
| retain 978:6 | 638:5,9 648:8 | risk 674:12 862:12 | 918:8 927:21 | 708:6 715:9 |
| retaliation 979:8,22 | 649:19 652:13 | 935:21 962:5 | 936:16 937:17 | 716:13 |
| 980:7 981:22 | 655:1 657:7 | 977:17 | rule-making 774:16 | Sandy 678:8 |
| return 621:16 | 658:22 659:7,13 | risks 772:10 | rulemaking 610:21 | sanitary 755:21 |
| 682:9 703:17 | 659:18 660:2,2 | River 951:16 | rules 601:15 605:10 | Sarah 1001:19 |
| 729:13 800:2,5 | 666:19 674:20 | 952:10 998:3 | 605:12 607:5,12 | 1002:3 |
| 965:20 976:20 | 678:3 687:15 | road 716:9 760:21 | 607:17 609:4,22 | Saskatchewan |
| returned 681:15 | 688:19 698:18 | 969:1 970:19 | 610:21 611:1,3 | 671:18 |
| 831:16,21 | 707:7 709:4 | 971:1 973:2 993:8 | 618:13 620:11,16 | sat 675:3 739:12 |
| returning 688:14 | 714:22 717:4,10 | roadmap 820:1,2 | 623:10 636:14,17 | 888:12 929:15 |
| returns 681:17 | 721:6 727:14,15 | roads 871:9 927:13 | 673:12 678:12 | 977:4 |
| reveal 715:17 | 728:10 729:9 | 928:12 | 680:4 681:8 685:3 | satisfaction 631:11 |
| revenue 606:22 | 732:16 743:17 | Rob 1002:15 | 686:12 687:11,21 | 780:15 820:7 |
| 610:5 618:20 | 748:3,14 750:16 | Roberta 1002:12 | 702:15 703:2,4 | satisfactory 962:14 |
| 623:2 628:3 631:2 | 752:4 753:1,2 | robust 822:21 | 704:1 795:2 | satisfy 618:21 |
| 702:3 743:20,22 | 756:9 759:18 | 837:14 | 841:15,16,18,22 | 927:21 |
| 808:7 821:6,8,10 | 766:21 767:3 | rock 676:22 677:6 | 879:21 885:13,14 | Saturday 697:12,13 |
| 821:14,18,21,22 | 779:2 784:5 | 969:11 | 901:20 904:11 | 698:3 801:21 |
| 823:13 829:21 | 787:15 791:7 | Rocker 731:5 959:3 | 926:5 935:20 | 802:20 882:3,8 |
| 865:9 866:9,10 | 798:21 799:6 | Rocker's 688:17 | 936:4,5,6,7 | 899:4,4 939:3 |
| 867:7,12 956:21 | 805:7,10,20 | 958:18 | 938:12 977:18 | Saturdays 896:9 |
| 959:9 | 841:18 851:14 | role 625:10 813:20 | 978:5,9 | sauces 670:20 |
| revenues 623:3 | 852:3,5,6,21 | 814:15 826:9,16 | ruling 626:21 778:2 | sauces 670.20 save 715:19 |
| 627:20,22 821:7 | 853:10,17 856:7 | 826:21 827:6 | 778:6,13 779:17 | save 715:19 saw 634:19 657:8 |
| 823:16 878:4 | 860:11 864:9 | 948:1 | 780:9 | |
| 901:14 1003:1 | 865:5,6,13,15,19 | roles 827:10 | run 710:1 729:15 | 992:18 1006:11 |
| reverse 995:6 | 866:6,14,15,18 | rolled 767:10 | 742:14,15 754:22 | Sawyer 1002:11 |
| reversed 795:19 | 867:1,7 868:4 | rolling 669:7 854:8 | 909:7 982:19 | saying 638:16 |
| 796:2 | 869:1,8,18 874:18 | 862:3,8 | 991:4 1001:14 | 645:17 646:12 |
| review 602:20 | 875:4,13,18 876:2 | rollover 669:15 | running 674:12 | 648:6 649:11 |
| 611:9 653:12 | 877:20 882:21 | roof 781:5 | 862:13 867:15 | 654:21 663:2 |
| 809:5,11 810:4 | 883:3,8 884:9 | room 596:6,6 | Ryan 1001:21,21 | 667:12 701:14 |
| 836:20,21 837:4 | 885:7,20 890:14 | 663:22 707:10 | 11,411 1001.21,21 | 714:20 720:16 |
| 030.20,21 037.4 | 003.7,20 070.14 | 003.22 /07.10 | | 722:1 727:7,17 |
| | = | | | = |

| | | | | Page 1046 |
|-----------------------|--------------------|-----------------------|----------------------------|---------------------|
| | | 0.55.04.5.0.7.5 | | |
| 735:1 737:17 | scrap 693:21,22,22 | 865:8,16 867:10 | separate 742:3 | 773:15,21 780:15 |
| 738:4 746:3 750:7 | 694:2,6 695:11 | 871:22 894:10 | 746:10 793:21 | 787:7,11 788:16 |
| 751:2 766:2 | 701:8 886:13 | 904:4 906:6,7 | 800:20 884:1 | 799:20,21 801:6 |
| 777:18 791:14 | screen 805:22 | 908:14,18 909:22 | 891:19 911:15 | 805:6 806:4 |
| 799:19 800:14 | screens 805:2 | 926:22 927:1 | 912:21 913:9 | 808:22 809:12,22 |
| 804:6,8 806:11 | scrutiny 609:22 | 931:5 971:3 983:6 | 914:18 918:7 | 813:6,12 816:4,17 |
| 860:3 863:10 | se 680:6 | 983:8 999:19 | 1004:9 | 817:10,16 819:3 |
| 865:7 866:4 | seal 892:1 | 1000:21 | September 673:5 | 820:3,8 823:4,18 |
| 869:14 870:5 | searching 930:1 | seeing 656:18 664:6 | 717:20 | 824:18 826:9,10 |
| 880:4,12 882:15 | searing 828:2 | 665:3 769:22 | sequence 976:6 | 827:6,9,13 828:5 |
| 887:2 906:22 | season 970:11 | 772:21 780:14 | Series 970:10 | 828:14 833:9,21 |
| 921:9 923:22 | seasonal 685:20 | 809:22 848:8 | serious 610:7 696:1 | 834:14 838:7 |
| 930:5 934:7 | seasonality 903:9 | 865:18 868:8 | 702:8 | 839:8,22 846:13 |
| 935:13 937:16 | 903:13 908:17 | seek 772:1 774:7 | seriously 813:19 | 847:10 849:18 |
| 942:7 943:22 | seat 632:18 | 842:4 | serve 606:6 609:19 | 850:1 851:2 |
| 980:9 986:21 | seats 1001:6 | seeking 961:13 | 613:9 621:12 | 852:21 862:12,13 |
| 989:1,6,8 990:6 | Sebring 612:6 | seen 681:6 730:22 | 666:14 710:22 | 872:5 877:16 |
| 991:9 1001:1 | second 601:3 605:1 | 731:2,2 774:13 | 714:21 759:20 | 883:2,4,10,11 |
| says 669:3 688:17 | 605:17 608:7 | 853:10 875:2 | 761:19 804:19 | 890:4 898:16,20 |
| 733:2 737:8 742:5 | 610:20 653:6 | 904:3 975:10 | 815:17 831:17 | 898:21 899:1,10 |
| 765:11 786:2 | 673:10 677:1,11 | 1005:13 | 832:1 834:16 | 899:12,14,14 |
| 795:2 859:21 | 681:18 714:2 | segment 968:19 | 936:13 951:17 | 907:4,13 919:7 |
| 870:8 879:22 | 795:14 798:6 | 972:1 989:2 | 961:10 962:13 | 928:19 936:12 |
| 904:22 914:7,10 | 807:17 809:5 | self-defining 621:2 | 985:21 986:1 | 944:19 945:2 |
| 922:3 933:14 | 811:9 894:2 910:9 | self-serving 711:17 | served 612:5,6,6,7 | 950:12 954:5,20 |
| 983:2 987:9 | 932:5 943:17 | selling 623:22 | 612:8,12 624:2 | 955:3,13,17 956:3 |
| scale 672:22 677:19 | 969:15 972:4 | semolina 597:20 | 671:1,2 695:17 | 956:7 962:1,2 |
| scale-ability 874:19 | 974:13 975:9 | 670:15 671:9,10 | 826:22 827:10 | 964:7 967:19 |
| scaling 936:20 | 976:12 977:16 | 684:13 | 950:9 966:16,17 | 968:9 973:20 |
| scary 705:21 | 982:18 | send 648:14 699:16 | serves 622:1 | 975:13,14 976:5 |
| scenario 639:3,21 | secondhand 773:1 | 752:14 763:3 | service 599:15 | 976:20 977:13,15 |
| 639:22 697:9 | 773:3 | 764:21 766:1 | 604:7 606:11,21 | 995:11,12 996:5 |
| 720:13,17 729:7 | section 618:9 | 767:18 788:15 | 619:4,5,22 620:18 | 996:10,12,15 |
| 750:3,16 788:20 | 620:18 679:20 | 908:1 922:14 | 625:7,8 626:11,17 | 1000:18,19 |
| 790:17 804:4 | sector 624:10 | 924:22 928:5 | 627:12 628:12 | service-related |
| 856:8,11 889:22 | secured 906:20 | 937:15 987:17 | 629:11 630:6,12 | 690:9 691:12,20 |
| 990:1,6 | securing 834:22 | sending 648:16 | 631:11,18,19 | 692:19,22 851:12 |
| scenarios 700:12 | security 710:1 | 747:9 767:17 | 651:16 664:19 | 851:18 |
| 803:4 873:10 | see 601:19 602:18 | 932:8 | 665:2,10,15,20 | serviced 898:18 |
| 893:21 | 606:21 607:15 | senior 597:4 599:14 | 672:1 678:12,13 | services 599:9 |
| schedule 774:4 | 635:6 638:13 | 817:2 820:16 | 679:18 680:21 | 609:21 624:11 |
| 871:13 965:19 | 641:9 648:3 | 827:5,11 | 681:4,16 682:9 | 814:22 816:10 |
| scheduled 608:3 | 652:21 653:5 | sense 644:13 645:18 | 683:7 684:1,2 | 819:10,11 823:9 |
| 672:19 745:16 | 656:8,15 667:12 | 646:19 658:19 | 688:15 690:14,20 | 823:10 824:21 |
| 828:15 844:14 | 669:1 676:1 693:9 | 701:5 709:20 | 691:4 692:2,17 | 826:4,12 827:7 |
| 887:14 889:9 | 695:8 728:2 | 720:1,3,14 727:10 | 693:3,16 695:7 | 834:5,6,7,8,13 |
| 945:2 953:8 | 759:13 760:22,22 | 728:11 729:11 | 696:12,19 697:17 | 835:9,14,18 |
| 954:11,16 963:18 | 761:1,2 764:9 | 733:7 776:9 | 699:1 701:19 | 836:13,14,17 |
| 965:6 975:2 | 765:5 769:3,13 | 780:11 789:4 | 702:8 704:8 | 838:3 839:5 |
| 976:14,21 977:3 | 779:20 780:10 | 865:4 888:19 | 705:13 708:4,7,13 | 840:17 949:16,17 |
| schedules 963:1,4 | 782:17 787:4,8 | 893:4,18 907:8 | 709:2 710:5,10 | 973:15 975:6,8 |
| 977:9 | 788:2 809:18 | 936:8 | 715:2 720:2 | 977:12 |
| scheduling 684:6 | 811:1 813:8 | sent 635:19 648:20 | 756:22 760:6,9,11 | servicing 631:17 |
| 787:4 | 849:19 851:5,8,11 | 675:8 678:14 | 760:14 763:19 | 701:7 |
| Schneider 1002:15 | 854:12 855:15 | 906:12 925:15 | 764:19 765:21 | serving 613:7 625:6 |
| Scott 1002:4,4 | 863:1 864:20 | 976:13 | 766:6,14,17 767:3 | 672:8 967:1 |
| Deott 1002.¬,¬ | 003.1 004.20 | 710.13 | 700.0,17,17707.3 | 0,2.0,00,.1 |
| | - | = | - | - |

| | | | | 9 |
|-----------------------|-----------------------|--------------------|--|------------------------|
| session 860:20 | 671:20,22 678:22 | 682:6 683:11 | showed 979:9 | 998:13 |
| set 617:16 621:6 | 683:10 690:4 | 685:19 691:11,14 | showed 979.9 showing 753:14 | similarly 626:13 |
| 622:7 641:19 | 691:2 692:5,21 | 714:14 752:1 | 793:21 831:2 | 926:15 957:20 |
| 677:10 709:20 | 720:2 769:6 774:3 | 756:12 757:17 | 919:10 920:17 | simple 625:8 629:16 |
| 720:21 723:1 | 811:1,7,18 815:12 | 759:21,21 760:19 | 977:14 | 634:8 804:3 810:9 |
| 758:19 771:11 | 843:5 931:6 | | | |
| | | 772:2,14 773:9 | shown 917:3 918:6 | simplifies 770:7 |
| 787:9 792:10 | 962:17 966:6 | 775:4,17,19 | shows 757:11 914:1 914:2 957:10 | simply 605:14 |
| 829:17 858:11 | shipped 612:22 | 776:10,15,19,22 | | 618:19 636:15 |
| 859:10,11 860:11 | 613:11 671:11 | 777:2,9,16 778:9 | shredder 694:20,21 | 642:22 687:14 |
| 874:1 883:5 | 683:8 695:22 | 788:15 791:21 | shredders 740:20 | 700:20 703:21 |
| 888:13 890:5 | 788:7,21 877:1 | 792:5 793:4 | shut 882:2 | 808:8 823:16 |
| 916:1 934:5 941:7 | shipper 604:12 | 797:15 798:7 | shutdown 684:15 | 920:16 956:13 |
| 949:15 953:1 | 605:2,5 610:6 | 799:22 800:4 | 693:3 | 969:14 972:4 |
| 976:7 | 613:14 616:19 | 808:2,17 812:2 | shutdowns 615:20 | sincere 767:2 |
| sets 675:1 711:8 | 617:2,3,4,10,14 | 815:11 817:7 | 619:15 | single 603:22 |
| 954:16 962:19 | 621:9 638:2 651:8 | 822:18 868:3,4 | shutting 674:12 | 620:19 626:6 |
| setting 915:16 | 653:7 654:12 | 872:11,16 879:19 | 684:16 | 631:5 678:22 |
| settled 748:11 | 656:4,5,12 679:2 | 883:14 885:10,12 | sick 746:9 | 679:21 683:9 |
| severe 710:3 830:21 | 682:17 683:6 | 933:16 936:3,14 | side 607:18 623:22 | 684:8 687:9 |
| 831:3 | 723:13 728:22 | 941:11,19 952:19 | 645:7 657:19 | 694:18 719:20,21 |
| severely 774:9 | 753:9 756:6 | 952:22 953:4,14 | 660:9 805:17,18 | 729:2 730:17 |
| shake 707:9 | 760:13 775:13 | 954:6,8,9 955:2,4 | 895:6 906:21 | 731:12 828:7 |
| shaking 653:10 | 784:16 786:1,2,4 | 955:19 956:11,21 | 938:19 1004:10 | 903:11 927:1 |
| shame 768:20 | 786:6 788:4 | 958:11,17 959:5 | 1004:10 1005:17 | 928:19 1003:17 |
| share 608:5 620:12 | 790:12,15,18 | 959:10,12 960:13 | 1005:17 | singling 622:21 |
| 628:4,8 773:16 | 791:1,15 792:4,12 | 960:19,20 962:12 | side-stepping | 667:18 |
| 814:6 820:17 | 792:15 794:10 | 962:14,18 964:4 | 935:10 | sir 725:16 742:1,20 |
| 952:1 | 796:7,9 798:2,4 | 972:5 974:15 | sided 619:2 | 743:6 744:13 |
| shared 631:4 | 799:10 810:6 | 977:9,17 978:18 | sideline 769:14 | 785:6,9 |
| 640:14 772:11,13 | 820:14 850:2,4,10 | 981:10 1005:12 | sides 624:12 | sit 678:6 715:16,17 |
| 772:14 795:18 | 850:13 860:17 | 1007:1 | sidings 626:8,9 | 736:11,20 865:14 |
| 813:1 | 870:8 873:8,11 | shippers' 959:21 | sight 946:19 | 888:21 954:18 |
| sharing 841:7 | 886:1 887:21 | shipping 635:16 | signed 674:2 942:1 | 990:7 |
| 948:11 | 888:11 892:6 | 685:10 686:18 | significance 619:12 | site 706:10 747:10 |
| shed 664:12 | 917:1 923:20 | 751:8 777:14 | significant 605:13 | sites 781:1 |
| 1006:14 | 924:4,5 934:20 | 788:6 789:12 | 623:8 640:16 | sitings 815:8 829:9 |
| shedding 731:21 | 945:8,13 959:14 | 790:1 800:2 | 670:10 678:19 | 833:3 982:16 |
| sheer 949:6 | 959:16 960:4,5,11 | 953:18,21 | 684:9 685:11 | sits 945:20 984:18 |
| shelter 931:18,18 | 973:13 974:15 | ships 672:6 | 686:20 727:1 | sitting 718:2 738:14 |
| sheltering 931:19 | 976:18 979:5 | shoes 870:7 | 779:2 780:16 | 744:11 759:12 |
| 967:17 | 1006:5 1007:14 | shoot 970:13 | 807:13 808:4 | 769:14,16,17 |
| Sheng 1002:8 | shipper's 606:17 | shooting 930:2 | 809:1 825:3 844:5 | 811:13 841:1 |
| shift 909:6 911:6 | 608:10 653:19 | shoots 741:1 | 875:2 905:4 909:5 | 870:7 892:8 893:8 |
| 916:21 943:16 | 654:15 683:1 | shop 976:14,18 | 926:11 953:13 | 938:22 945:16,18 |
| shifts 756:3 917:9 | 693:1 775:1 | 977:5 1002:6 | 955:5,22 956:17 | 951:6 959:18 |
| ship 695:13 701:9 | 957:19 | short 927:5 986:3 | 958:10 959:4 | situation 627:8 |
| 729:12,15 745:20 | shipper/947:17 | shortage 750:11 | 964:14 1005:15 | 634:18,21 635:19 |
| 753:6 788:10,12 | shipper/receiver | 964:20 | significantly 603:5 | 640:19 647:14 |
| 789:7,21 791:15 | 946:6 947:15 | shorter 674:9 | 606:11 | 650:3 656:9 |
| 942:9 952:14 | 1005:17 | shortly 734:7 | silos 674:17 | 667:11 683:7,12 |
| shipment 692:7 | shippers 605:10 | show 654:15 684:19 | similar 731:18 | 702:16 703:13 |
| 753:7 754:4 | 607:2 608:17 | 720:7 753:10 | 741:19 834:16 | 721:22 725:14 |
| 810:21 815:17 | 609:13 610:2,17 | 792:6 793:4,6 | 837:1 845:17 | 741:20 755:2 |
| 859:1 | 611:4 621:16 | 828:9 860:16 | 889:20 890:2 | 772:12 774:14,20 |
| shipments 603:8,9 | 627:7,16 641:5 | 871:7 885:18 | 906:7 908:21 | 781:19,21 783:1 |
| 613:2 614:13 | 645:7 664:1,5 | 917:6,13 925:8 | 928:16 954:14 | 813:15 850:14 |
| 013.2 014.13 | 045.7 004.1,5 | 717.0,13 723.8 | 720.10 734.14 | 015.15 050:14 |
| | • | • | • | • |

| 851:10 880:10 solely 702:13 772:2 868:9 886:19 853:5 878:9 926:19 919:13 922:21 957:18 964:3 909:11 925:15 1005:8 spread 735:15 924:11,21 934:19 966:21 930:1 931:14 specialist 818:19 spreads 711:7,9 941:14 942:11 soliciting 662:9 935:2,4 937:1 951:15 spreadsheet 73 991:4 solid 847:8 941:7 946:16 specific 603:15 spurs 780:6 situational 633:11 633:20 636:4 646:10,17 668:19 999:21 680:2 758:1 squishy 801:19 643:17 653:11 719:18 744:17 sorting 995:20 771:16 775:18 St 985:14 | 9:13 |
|--|------|
| 919:13 922:21 957:18 964:3 909:11 925:15 1005:8 spread 735:15 924:11,21 934:19 966:21 930:1 931:14 specialist 818:19 spreads 711:7,9 941:14 942:11 soliciting 662:9 935:2,4 937:1 951:15 spreadsheet 73 991:4 solid 847:8 941:7 946:16 specific 603:15 spurs 780:6 situational 633:11 solution 630:2 989:5 995:20 621:22 622:14 squirmy 707:8 633:20 636:4 646:10,17 668:19 999:21 680:2 758:1 squishy 801:19 | 9:13 |
| 924:11,21 934:19 966:21 930:1 931:14 specialist 818:19 spreads 711:7,9 941:14 942:11 soliciting 662:9 935:2,4 937:1 951:15 spreads 711:7,9 991:4 solid 847:8 941:7 946:16 specific 603:15 spurs 780:6 situational 633:11 solution 630:2 989:5 995:20 621:22 622:14 squirmy 707:8 633:20 636:4 646:10,17 668:19 999:21 680:2 758:1 squishy 801:19 | 9:13 |
| 941:14 942:11 soliciting 662:9 935:2,4 937:1 951:15 spreadsheet 73 991:4 solid 847:8 941:7 946:16 specific 603:15 spurs 780:6 situational 633:11 solution 630:2 989:5 995:20 621:22 622:14 squirmy 707:8 633:20 636:4 646:10,17 668:19 999:21 680:2 758:1 squishy 801:19 | 9:13 |
| 991:4 solid 847:8 941:7 946:16 specific 603:15 spurs 780:6 squirmy 707:8 633:20 636:4 646:10,17 668:19 999:21 680:2 758:1 squirmy 707:8 | |
| situational 633:11 solution 630:2 989:5 995:20 621:22 622:14 squirmy 707:8 633:20 636:4 646:10,17 668:19 999:21 680:2 758:1 squishy 801:19 | ,19 |
| 633:20 636:4 646:10,17 668:19 999:21 680:2 758:1 squishy 801:19 | ,19 |
| | ,19 |
| 1 045.17 055.11 1 717.10 744.17 1 SULUIP 975.20 1 771.10 775.16 1 51 765 14 | |
| 655:15,18 656:11 797:6 877:5 sorts 905:11 809:10 810:19 stacking 757:3 | |
| 668:10,17 669:11 881:13 930:1 sound 706:13 812:12 819:21 staff 602:16 76 | 2.0 |
| situations 618:2 955:21 960:1 741:22 992:1 820:22 836:10 768:12,12 77 | |
| 619:21 646:3,13 solutions 731:19 sounded 855:7 841:11 856:18 817:16 839:6 | |
| 654:8 656:13 732:4 972:18 878:18 864:15 882:19 871:13 966:4 | |
| 697:5 812:10,18 973:5 sounding 962:5 922:19 933:22 1001:11,11 | |
| 904:10 920:22 solve 787:18,20 sounds 639:21 934:3,21 963:20 1003:15 1004 | ٠6 |
| 923:12 937:9 solved 792:14 981:4 650:7 660:12 984:19 1004:11 | .0 |
| 941:7 solves 763:9 712:12 718:6,21 specifically 626:1 stage 829:8 919 | .28 |
| size 646:5 753:7 somebody 720:4 720:15 727:6 650:2 726:10 920:9 | .2,0 |
| 754:4 876:18 726:18,20 749:1 728:16 735:13 780:2 806:15 stages 889:10 | |
| 877:4 879:9,14 768:9 783:17 896:14,21 899:19 847:20 891:11 Stagger's 963: | 0 |
| 881:12 886:8,20 864:9 883:6 987:15 996:10 965:13 970:5 Staggers 962:1 | |
| 886:22 955:21 884:18 917:13 source 603:2 specificity 956:17 stakeholders 8 | |
| sized 698:19 928:20 933:4 606:22 623:1 specifics 839:9 951:22 | 17.7 |
| skimmed 735:12 934:6 946:5,10 959:9 spectrum 928:4 stamina 770:17 | 17 |
| sky 977:21 983:22 sources 671:14 speed 629:7 829:15 961:12 | ,1/ |
| skyrocketed 696:5 somebody's 751:1 963:14 spend 673:2 687:4 stamp 759:5 80 | 4.14 |
| slam 756:2 someone's 721:2 Sourcing 671:18 705:10 709:13 806:16,17 93 | |
| slide 631:5 675:2,18 852:22 southeastern 976:8 714:15 715:2 stamps 804:16 | 0.10 |
| 676:11,15 829:11 something's 923:19 Southern 597:12 717:3 741:21,21 931:9 | |
| 831:2 836:15 941:3 599:12 602:10 743:1 860:3 stand 641:6 | |
| 837:14 969:11 somewhat 649:2 612:8 613:21,22 873:14 904:15 standard 620:1 | 9 |
| slightly 898:15 661:17 789:9 614:3 623:19 971:15,17 1000:1 621:7 641:11 | |
| Sloan 597:4 602:10 889:11 958:8 624:2 625:11 spending 673:16 679:4,21 680 | :11 |
| 602:13 651:11 soon 601:20 634:5 671:6 695:18 983:3 687:7 724:6, | |
| 661:9 664:15 803:21 804:1 700:6 726:12 spent 700:3 714:13 761:15 768:2 | |
| 665:19 831:21 894:15 731:16 826:16 957:8 967:3 804:7 923:9 | |
| slot 976:22 sooner 686:7 space 627:9 637:8 spike 942:13 925:18 927:2 | 0 |
| slow 631:22 855:12 644:16 700:5,7 spits 925:9 928:2 929:4 9 | |
| small 613:14 sorry 623:15 714:8 779:8,13 786:15 split 734:12 860:5 standardization | n |
| 627:21 976:16 716:13 719:17 786:19 787:2 spoke 707:3 783:10 955:17 | |
| smaller 786:18 734:17 766:18 821:6 833:6 817:10 standardize 95 | 5:12 |
| 845:18 873:16 778:4 795:12 886:16 896:4,12 spoken 658:7 standards 609: | 9 |
| 882:19 883:14 807:3,8 895:21 977:5 939:19 610:14 615:1 | ,2 |
| 930:14 900:3 903:4 spaces 896:7 sponsored 654:4 953:1 | |
| Smith 1002:11 909:20 932:11 span 851:7 966:22 spot 700:13 816:16 standpoint 653 | :1 |
| Smith-Bernard 1002:4 967:3 862:5 883:7 657:3,4,13 7 | 0:1 |
| 1002:2 sort 645:4 646:21 Sparta 612:5,19 887:22 896:2,6,10 start 602:9 624 | :19 |
| Smith-Bozek 647:5 648:15 speak 623:14 921:15 998:20 631:22 641:2 | |
| 1002:16 652:11 655:8 640:18 650:15 spot-on 671:13 660:18 670:4 | |
| smoke 773:1,4 660:14 662:16,22 651:19 693:4,12 spots 635:17 697:4 704:7 754:12 | |
| smokers 773:4 665:2 691:13 778:22 784:4 729:2 746:11 757:16 763:4 | ,13 |
| smoking 773:5,6 711:5 719:3 800:9 888:4 750:4 985:22 763:15,15 80 | 7:8 |
| smoothing 963:6 735:12 738:18 949:11 965:4 986:1 815:2 840:21 | |
| sodium 690:1 743:15 750:21 974:7 994:20,21 spotted 683:1 844:15 849:1 | 8 |
| sole 605:21 609:6 763:3 784:7 850:1 994:21 806:17 867:10 894:1 | 2 |
| 614:2 702:10 850:9,10 860:5 speaking 634:4 spotting 649:4 898:20 899:1 | 2 |
| | |

| 916:21 921:8 | statistics 663:18 | stipulation 675:5 | stretch 675:21 | 775:22 |
|---------------------------------------|------------------------|--|---------------------------|----------------------------|
| 938:20 951:11 | 756:18 971:10 | stockpile 963:3 | strict 691:15 920:15 | substantive 854:22 |
| 973:3 995:5 | stats 732:12 | stockpiles 963:2 | 922:21 923:9 | 856:9,15 |
| | status 649:8 650:1 | stockpiling 963:8 | 928:2 | subtract 761:11 |
| started 632:22 | | stockpining 903.8 stop 677:19 728:8 | | |
| 639:7 664:19 | 927:2 | | strikes 716:12 | subtracted 617:13 |
| 670:9 694:16 | statuses 872:3 | 763:4,5,12 767:4 | 751:3 | success 762:12 |
| 698:13 706:21 | statute 632:13 | 773:5 903:21 | striking 952:21 | 816:20 941:11 |
| 765:7 819:17 | 744:1 784:3 | 938:20 | string 696:21 | 957:14,15 |
| 843:11 845:5 | 911:15,18,19 | stops 894:17,18 | strive 629:15 | successful 630:15 |
| 891:19 1006:4 | 912:11 913:10,16 | 969:14 | 728:14 | 967:10 |
| starting 611:16 | 914:12,14 915:14 | storage 603:14 | strong 952:4 | successfully 630:22 |
| 672:7 780:10 | 916:10,12 | 604:2,13,17 606:7 | struck 637:10 | 848:5 955:11 |
| 812:22 864:20 | statutory 913:6 | 608:13 609:22 | structure 723:9 | 958:1,2 |
| 973:3 1001:18 | 914:6 937:6 | 610:2,6,22 611:5 | structured 697:14 | suck 763:2 |
| starts 810:21 | stay 711:7,15 | 616:18,22 617:6 | struggle 665:4 | sudden 806:3,6 |
| 899:15 | 805:15 894:22 | 617:14,18 618:3,7 | struggled 877:9 | 875:16 |
| state 619:4 676:5 | 909:4 991:5 | 619:10 620:1,11 | struggling 751:10 | suffer 643:16 955:4 |
| 692:7 728:5 | 1001:6 | 643:15 644:14,21 | stuck 605:15 728:7 | suffering 963:13,22 |
| 797:11 798:8 | stayed 611:18 | 674:3,17 676:10 | 766:2 | 1003:6 |
| 830:2 | 699:13 727:4 | 676:13,14,20 | studied 922:17,18 | suffers 976:5 |
| stated 679:5 683:15 | staying 652:20 | 677:2,4,14 681:11 | study 712:20 | sufficient 712:2 |
| 713:16 784:7 | stays 968:18 | 685:12 686:21 | 762:22 | 792:8 839:17 |
| 867:18 957:9 | STB 607:8 611:8 | 695:6 696:4,6,10 | stuff 757:4 794:18 | 865:21 939:15 |
| statement 610:11 | 621:19 622:4 | 696:14 697:8 | 806:12 888:11 | 998:13 999:5 |
| 610:14,16 624:16 | 756:7 759:2 | 699:17 702:2 | 972:12 | suggest 716:4 756:7 |
| 624:17,20,21 | 771:22 774:16 | 703:6 747:10,20 | style 900:12 | 759:4 836:21 |
| 642:20 645:10 | 778:1,12 781:12 | 752:15,16,17 | sub-par 692:17 | 916:12 980:21 |
| 646:20 647:10 | 815:3 820:17,20 | 763:10 773:18 | 693:2 | suggesting 879:15 |
| 650:13,15 658:4 | 886:4 923:11 | 803:9,17 811:20 | subject 606:8 | 910:16,19,20 |
| 704:18 735:13 | 926:1 939:19 | 821:18 823:11,12 | 618:11 622:5 | 916:16 925:12 |
| 740:15 786:16 | 970:17 972:17 | 834:8 862:3,8 | 836:20 954:13 | 927:19 928:2 |
| 817:21 818:2,4,6 | STB's 626:21 | 871:12 906:13,16 | subjected 959:12 | suggestion 781:16 |
| 854:6 880:5,13,19 | steadily 827:20 | 906:18,19 984:10 | subjects 889:14 | 879:16 995:16 |
| 881:1 909:8,17,21 | stealing 765:15 | 986:17,18 | submission 641:11 | suggestions 716:10 |
| 910:4 911:4,5 | steel 676:14 701:7 | store 626:3 907:4 | 816:2 | 806:4 |
| 952:5 953:5 975:5 | 728:3 751:18 | 955:3 986:3 | submissions 933:14 | suing 919:10 |
| 976:6 | 969:19 | stored 626:8,9 | submit 618:7 | suite 811:1 |
| statements 817:17 | steeply 698:5 | 666:6,8 | 620:14 623:7 | Sullivan 1002:11 |
| 933:20 974:21 | stem 779:16 800:17 | story 702:4 968:17 | 682:19 688:8 | summarize 752:20 |
| 981:12 | 953:7 | straight 942:5 | 710:17 817:21 | 914:5 963:21 |
| states 599:16 | step 798:6 869:13 | 950:13 | 978:21 1003:10 | 971:19 975:4 |
| 692:12 736:3,5 | 919:1 | straight-forward | submitted 624:15 | summarizes 837:14 |
| 770:21 772:8 | stepped 1002:20 | 621:9 | 952:5 | summary 795:1 |
| 815:19 821:9 | steps 960:17 | straightforward | subscriber 619:4 | 836:3,4 960:12 |
| 826:18 890:13 | 1006:20 | 766:19 836:12 | subsequent 655:9 | summer 699:9 |
| 956:14 958:19 | Steve 598:11 | 855:4 918:13 | 708:22 786:3,5 | 903:8 |
| static 732:14 | 754:12 786:16 | strange 755:5 | 861:3 | Sunday 697:13 |
| static 732.14 stating 963:21 | 795:11 800:12,15 | strategically 691:6 | subsequently | 698:4 802:20 |
| stating 965:21 station 612:3 817:6 | 801:10 803:2 | 739:1 | 612:13 620:4 | 882:9 894:22 |
| 818:14 926:22 | Steve's 781:16 | | 673:7 681:17 | 882:9 894:22 899:4 |
| 976:8 | stick 691:13 894:7 | strategy 827:11 stream 628:3 | subsidiaries 825:21 | 899:4 Sundays 882:4 |
| \$70:8 stations 671:21 | 905:7 | stream 628:3 streamlined 956:13 | subsidized 949:14 | 896:9 |
| 730:11 815:10 | | | substance 688:2 | |
| | sticking 894:2 | streamlining 956:7 | | super 754:8 970:9 |
| statistic 958:22 | stipulate 748:19 | Street 596:8 726:16 | substantial 824:14 | superintendent |
| statistically 847:8 | 792:2 944:15,16 | 743:9 | 963:22 964:2 | 827:3 |
| statistician 765:12 | stipulating 727:11 | strengthen 830:2 | substantiation | superior 804:17 |
| | ı | ı | 1 | 1 |

| | | | | 1490 1032 |
|-----------------------------------|----------------------|-----------------------------------|---------------------|------------------------------|
| gummlomontol | surety 790:10 | 767:22 771:6 | 1006:15,15,16,16 | 990:15 991:11 |
| supplemental 814:16 907:12 | surface 596:1 696:1 | 772:15 789:14,14 | 1006:13,13,16,16 | Tammy 1001:22 |
| supplier 762:8 | 754:14 965:5 | 791:9 805:19 | takeaways 841:5 | tank 613:1 |
| suppliers 689:21 | 966:3 | 811:17 813:14 | 842:9 | tank 613.1 |
| suppliers 689.21 supply 618:16 | surge 862:6 963:6 | 815:4 827:4 | taken 628:10 | tanks 676.14 target 641:6 |
| 683:18 688:18 | 975:16 | | 699:15 707:1 | tariff 608:2 613:21 |
| 709:22 748:1 | surprise 603:10 | 831:16,21 836:17 890:20 893:20 | 744:15 842:2 | 617:16 618:8 |
| 824:1,1,5,16,20 | survey 780:4 | 898:2,11 900:7,19 | takes 610:6 687:8 | 619:3 622:8,10 |
| 831:22 832:21 | surveys 820:6,8 | 902:5,8 903:12 | 719:20 768:3 | 635:6 669:3 |
| 834:1 845:4 | 846:22 | 941:17,21 963:6 | 793:11 794:4 | 678:15 680:8 |
| 861:22 866:16 | sustain 630:11 | 987:14 991:6,7,8 | 813:19 833:12 | 682:21 683:15 |
| 874:9 875:7,21 | swallow 936:16 | 993:4,6,17 999:11 | 841:13 874:11 | 703:15 723:2,3,11 |
| 876:22 881:19 | sweet 887:22 | 999:17 | 892:14 955:1 | 726:5 730:10 |
| 882:4,11 887:13 | swings 875:2 | systematic 767:17 | 967:11 | 795:6 798:15 |
| 887:16,20 888:16 | switch 655:6,7,10 | systemic 818:20 | talk 601:7 642:15 | 835:19,21 836:3,3 |
| 888:20 909:20 | 655:20 656:3 | systems 634:12 | 642:17 651:5 | 836:8,9 838:4 |
| 911:13 913:7 | 677:11 684:8,10 | 762:4 763:10,10 | 662:3 665:21 | 839:3,9 923:18 |
| support 612:12 | 684:11,14 690:22 | 763:11 765:17,18 | 667:5 732:6 735:4 | 956:10,13,16 |
| 808:6 812:17 | 718:5 787:10,11 | 776:2,4 792:10 | 745:9 746:17 | 999:4 |
| 814:7,17 846:17 | 787:12 803:7,8 | 867:16 928:11 | 757:8 758:10 | tariffs 611:10 |
| 952:4 964:8 | 840:1 852:22 | 961:18 962:20,21 | 761:16,16 763:8 | 620:14 686:10,11 |
| supported 688:16 | 853:15,18 862:16 | 964:2 | 764:6 770:2 | 722:20 730:15 |
| 820:18 822:11 | 892:17 894:20 | 704.2 | 795:11 815:22 | 758:22 759:1 |
| supports 620:10 | 897:22 928:19 | | 818:11 819:8 | 763:13 766:22 |
| suppose 650:11 | 939:1,2 994:15 | table 601:16 704:14 | 842:3,16 843:5 | 816:11 827:9 |
| 720:6 773:2 | 999:11 | 739:19 901:16 | 849:2 858:22 | 834:15 835:14,17 |
| 920:19 | switched 806:5 | 963:10 | 885:4 931:11 | 836:1,11 848:14 |
| supposed 699:17 | switches 614:17 | tactic 726:17 | 941:3 946:12 | 954:1,9 956:20 |
| 886:6 | 615:12 619:13,15 | 744:15 | 967:7,18 968:2,13 | 960:20 |
| sure 640:20,22 | 665:18 666:15 | tailor 621:4 883:11 | 968:14,15,20 | task 602:17 978:16 |
| 651:19 652:9 | 672:19 676:7 | tailored 808:5 | 972:19 979:17 | tasked 691:5 |
| 653:22 655:21 | 684:2 718:7 | take 608:17 617:21 | 981:14 990:13 | tax 772:8,20 |
| 675:13 705:11 | 809:17 849:18 | 632:16 635:21 | 996:5 1000:10 | taxation 773:10,12 |
| 708:4 717:14 | 993:9 | 639:17 647:19 | talked 642:14 662:8 | taxing 772:19,22 |
| 722:16 733:8 | switching 610:4 | 651:9 652:21 | 701:9 712:4 715:5 | Taylor 599:12 |
| 739:10 741:16 | 698:3 749:4 834:9 | 658:2 668:1 | 721:15 748:8 | 826:15,17,22 |
| 747:18 749:9 | 862:9,11 | 692:18 697:8 | 749:10 754:20 | 827:2,15,16 |
| 751:12 759:16,17 | sympathetic 795:16 | 707:12 721:9 | 757:1 758:9,12 | 844:13 845:15 |
| 764:5 765:20 | symptom 685:16 | 732:7 744:5 | 764:8 779:14 | 850:4 873:21 |
| 766:17 768:7 | 686:22 | 747:12 749:7 | 782:1 844:6 861:4 | 874:19 875:5,14 |
| 787:15 796:1,13 | sync 687:18 | 750:15 752:17 | 876:11 930:9 | 875:19 876:3 |
| 798:13 805:4 | system 603:4 | 758:16 766:7 | 968:12 985:12 | 881:17 882:18,22 |
| 841:3,17 846:3 | 617:22 621:17,17 | 772:20 780:21 | talking 656:1 660:3 | 883:4,9 887:10 |
| 849:14 854:7 | 636:14 649:6,10 | 781:15 783:7 | 661:5 668:7 | 890:22 |
| 855:2,18 860:16 | 656:16,20 657:8 | 785:5 786:15,15 | 680:22 701:2,2 | team 628:11 662:9 |
| 861:1 870:4 | 657:13,22 658:16 | 787:2 790:19 | 714:1 717:15 | 691:5 809:10 |
| 877:19 880:6 | 659:12 660:1 | 805:22 825:15 | 741:11 755:10 | 812:8 816:9,13,14 |
| 885:18 893:9 | 698:22 699:13 | 837:10 838:21 | 763:15,16 779:5 | 817:1,2,16 827:7 |
| 894:14 896:16 | 703:3 704:22 | 854:21 857:12 | 781:6 802:10 | 836:13 839:5 |
| 899:9 921:17 | 705:4 725:5,11,14 | 862:7 868:13 | 806:16 809:8 | 846:14 926:16,17 |
| 936:20 940:7 | 725:19 726:6 | 870:10 884:22 | 848:21 854:19 | teams 628:13 |
| 946:21 949:13 | 727:3 731:15 | 906:5 910:22 | 860:7 871:15 | 816:15 874:3 |
| 976:12 981:21 | 732:1 740:14 | 919:14 920:1 | 880:12 881:21 | 904:17 |
| 984:13 986:19 | 742:22 744:1 | 923:6 948:2 965:5 | 901:13 904:17 | Technical 597:5 |
| 988:16 992:17 | 757:15,17,17 | 976:4 994:18 | 923:18 933:3,11 | technological 639:1 |
| 996:7 | 766:9,11,12,13 | 996:22 998:2,4 | 982:13 988:17 | technologically |
| | l | | | I |

| | | | | Page 1053 |
|-----------------------|----------------------|---------------------------|---|-------------------|
| | 004 5 000 15 11 | 5045 500 5 | l , , , , , , , , , , , , , , , , , , , | |
| 636:18 | 881:5 890:10,11 | 704:7 708:22 | they'd 713:10 842:5 | 642:21 648:11 |
| technology 812:17 | 907:5 967:1 | 728:17 732:8 | 949:17 | 651:11 653:5,11 |
| 819:11,19 820:3 | 983:13 | 765:5,9,11 766:11 | thing 636:6 643:7 | 657:8,10 659:21 |
| 822:11 847:19 | terminals 598:14 | 767:6 769:3 | 660:10 697:22 | 663:2 665:7 |
| 927:11 928:12 | 770:14,19,21 | 771:19 772:4,6 | 720:18 721:16 | 669:22 670:10 |
| 962:8 | 771:6 772:13 | 807:13 808:20 | 725:2,6 752:21 | 697:19 702:5,8 |
| tell 649:20 668:15 | 773:14 774:8,18 | 841:1 846:12 | 755:12 756:17 | 705:9 716:1,8,9 |
| 753:15 755:6 | 775:3 776:9 | 863:4 864:19 | 758:6 844:17 | 719:14 722:5 |
| 766:10,10 781:9 | 777:19 778:8,15 | 872:15 876:9 | 856:6 868:9 | 723:15,16 724:10 |
| 782:3 783:6 | 779:11 876:20 | 877:3 904:9 | 873:19 876:14 | 724:20 725:2,6,9 |
| 789:14 801:15 | 882:7 914:15 | 906:11 914:1 | 881:13 888:10 | 726:15,15,17,22 |
| 860:20 880:14 | 915:2,7 984:17 | 926:16 930:17 | 895:22 915:5 | 727:15 728:12,13 |
| 885:13 889:19 | terminate 811:2 | 954:19 958:18 | 931:14 935:8 | 728:15 730:20 |
| 908:22 913:21 | terminated 683:13 | 959:2 963:20 | 943:18 948:22 | 731:8 738:6 |
| 927:14 929:6 | Termination | 967:8,9 1004:21 | 950:5,21 969:5,15 | 743:13 744:10,16 |
| 937:16 966:18 | 679:14 | Tetramer 966:14 | 970:3 971:2 | 744:21 748:13 |
| 968:3 971:21 | terminology 660:5 | Texas 613:9 693:19 | 975:12 995:20 | 752:1,22 753:3,16 |
| 980:15 982:8 | terms 621:1 657:19 | 874:16 | 999:21 | 757:16 778:5 |
| telling 748:15 | 680:2 723:10 | thank 601:4 602:6 | things 625:12 632:3 | 780:9 781:13 |
| 753:16,17 754:6 | 741:20 810:2 | 602:16 611:11,13 | 634:1 642:14 | 782:5,22 783:17 |
| 754:16 761:20 | 817:12 819:2 | 623:5,11,14 | 648:12 653:15 | 788:18 793:19 |
| 889:15 968:21 | 841:19 842:4,8,11 | 631:22 651:2,4 | 654:1 655:21 | 794:1,4 798:7 |
| 991:10 | 842:18,21 843:17 | 661:15 668:4 | 668:13,22 700:15 | 799:12 801:13,13 |
| tells 796:22 | 844:6 847:9,15 | 670:1 689:6,9 | 720:10 724:17,19 | 801:18 803:2 |
| temperature-cont | 848:3 852:3 858:8 | 693:3,6 695:2 | 725:1 729:18 | 806:13,21 841:8,9 |
| 779:8 | 858:17 859:19 | 704:2,6,16 718:13 | 730:14 731:4 | 841:10,12,13,16 |
| temperatures 828:1 | 860:10,12 869:20 | 730:5 734:3 | 732:13 740:18 | 841:20 842:8,9,15 |
| 831:5 | 870:15 885:16 | 744:18,19 754:7 | 751:7,14,14,15 | 842:17 848:13,15 |
| tend 696:22 | 886:4,5 904:4 | 754:13,14 761:2 | 755:13 757:20 | 850:12 854:19 |
| tendering 834:21 | 906:1,20 907:21 | 770:7,8,12,14,18 | 763:5,11 769:20 | 856:11 858:16,21 |
| tenet 935:9 940:3 | 926:7,8,18,19 | 778:10,15,16,18 | 779:4 788:19 | 859:4,4,6 860:1,8 |
| tenets 935:4,11 | 927:16 935:2,18 | 794:13 796:13 | 797:16 804:9 | 860:9 863:19 |
| 939:6 940:5 | 936:4,6 946:13 | 799:7 800:11 | 809:13 813:9 | 864:18 867:1,3,15 |
| 947:11 948:13,15 | 947:15 955:13,17 | 801:7 802:19 | 841:10 842:5,17 | 870:8,18 872:15 |
| 948:18,20,21 | 956:7 | 807:1,2,9 814:8 | 845:1 856:5,21 | 872:18 874:6 |
| 950:3 992:18 | terrible 967:21 | 814:10,12 825:17 | 862:17 865:15 | 876:13,16 877:7 |
| 998:10,19 | test 620:19 679:21 | 825:19 835:11 | 868:5,6 870:4 | 884:21,22 885:3,3 |
| Tennessee 689:18 | 870:11 876:18 | 840:20,21 849:9 | 871:2 872:11,19 | 885:11,16 886:3,7 |
| 693:20 734:11,18 | 878:21 | 895:11 926:13 | 872:20 876:5 | 886:12 887:5 |
| 734:19 735:8 | testified 841:4 | 933:5 951:5,6,21 | 881:20 882:6,9 | 889:11 892:18 |
| tens 964:13 | 848:16 | 961:4,7,8,11 | 888:3 905:11 | 902:15,19,20 |
| term 624:4 686:6 | testify 731:1 770:13 | 965:21,22 966:1 | 924:11,12 925:20 | 904:2,4,8,10,13 |
| 701:3 705:3,7,21 | 826:2 961:5 | 974:2,4,6 978:13 | 930:14,14 935:15 | 905:7,16 908:19 |
| 706:7 716:3 747:2 | 963:16 966:5 | 978:15 979:1 | 935:19 941:6,10 | 909:13,17 910:2,6 |
| 811:20 829:12 | 974:3 981:20 | 984:2 1001:1,5,10 | 943:14 944:8 | 912:9 913:22 |
| terminal 612:9 | testifying 952:3 | 1002:8,21 1003:6 | 949:13 970:16,17 | 914:20 915:13 |
| 613:9 772:22 | testimonies 749:11 | 1003:22,22 | 971:5,6 980:9 | 918:3 921:13,16 |
| 773:18,21 774:1,2 | testimony 603:19 | 1004:14,21 | 981:17 982:16 | 922:5 923:10,13 |
| 774:14,21 775:6,6 | 604:6,19 605:19 | 1007:18 | 988:18 993:9 | 923:15,20 924:14 |
| 776:1,15,16,17 | 607:14 612:1 | thanks 827:16 | 1000:2 1003:22 | 925:14,17,19,21 |
| 777:5,7 783:18 | 613:20 620:10 | 966:4 1004:2 | 1006:13,21,21 | 925:22 926:3,4,8 |
| 786:3,6 790:14,14 | 624:20 652:4 | that'd 916:3 | think 604:5 605:20 | 927:10 929:2,9,11 |
| 791:4,16 792:5 | 657:1 660:19 | theme 754:22 | 608:18 632:5 | 929:22 930:6 |
| 797:16 798:5 | 663:3,13 670:10 | 872:15 877:2 | 633:10,13 636:20 | 932:14 933:19,21 |
| 799:5 800:3 | 678:9,10 685:3,4 | theoretically 749:7 | 636:21 637:4 | 934:17 935:5,6,8 |
| 807:21 858:21 | 686:13 688:17 | theory 775:12 | 638:10,11 640:9 | 935:12,15,16,17 |
| | | | | ,,,-, |
| | | | | |

| | | | | Page 1034 |
|---------------------|---------------------|-------------------------------|-------------------------------------|----------------------|
| | 1 | | 1 | 1 |
| 937:1,2,5,6,7,8,11 | 916:2 925:4 | 735:21 738:13,22 | timeliness 937:5 | 809:21 810:11 |
| 937:12,14,15,19 | 932:12 987:4 | 746:16 751:19 | timely 809:7 815:14 | 818:15 824:19 |
| 938:1,11 939:3,18 | 1004:17 | 752:22 753:4,9 | 818:17 838:20,20 | 836:2 930:20 |
| 941:5 942:3,10,11 | thoughtful 871:4 | 756:14,15,19,20 | 839:11 856:20 | 931:1,9 |
| 942:11 943:12,15 | 872:14 | 757:21 759:5 | 958:7 | tools 634:13 809:2 |
| 944:3,9,17,19 | thoughtfully 1004:4 | 760:8,17,21 761:1 | times 614:8 619:8,9 | 811:1 812:1,3,7 |
| 945:5,17 946:2,15 | thoughts 841:6 | 761:7,9 762:13,19 | 628:17 635:13 | 813:15 814:22 |
| 946:19 947:6 | 843:1 948:11 | 763:4,18,20,21 | 650:1 674:10 | 816:12 819:10 |
| 948:9,14,15 | thousand-dollar | 764:1,15 765:22 | 684:17 701:21 | 871:19,22 885:16 |
| 949:20 950:5 | 767:11 | 766:2,6,7 768:3,4 | 728:19 730:21 | 885:17 941:12 |
| 970:21 971:11,12 | thousands 949:7 | 768:5,5,15 769:12 | 746:14 750:19 | 967:19 |
| 971:14,15 973:2 | 964:13 | 770:2 782:17 | 756:2 761:1,10 | top 664:17 675:17 |
| 971:14,13 973:2 | threat 704:13 959:4 | 787:16,20,22 | 787:9 796:9 810:3 | 675:18 676:7 |
| | three 610:9 630:16 | 792:7 795:5,9 | 826:19 828:17 | 683:15 714:2 |
| 980:4,12 985:2 | | | | |
| 989:18,22 990:12 | 681:21 746:10 | 797:1 802:17 | 829:2,6,12 832:14 | 730:1 826:7 |
| 990:16 991:11,14 | 793:10 888:15,22 | 804:14,16,17 | 871:7 895:4 897:5 | 866:10 926:21 |
| 992:10,12 993:5 | 908:8 924:18 | 805:3,14 806:1,16 | 940:10 941:18,20 | 972:19 973:4 |
| 993:16 994:1 | 925:5 929:22 | 806:16 817:9 | 941:22 942:1 | topic 603:1 623:8 |
| 995:14 996:10 | 941:16 953:10 | 820:17 828:20 | 954:7,17,21 957:2 | 726:2 887:11 |
| 997:6 998:2,22 | threshold 830:8 | 832:1,7,17 842:19 | 1003:7 | topics 678:11 880:9 |
| 1000:5,7 1004:8 | throughput 812:14 | 843:3,4 844:3,20 | timing 759:3 | tornado 932:2 |
| 1005:2,14,19 | 813:8 | 845:8 846:4,4 | tiny 694:17 992:3 | 951:6 965:3 |
| 1006:13,21 | throw 677:11 795:9 | 852:1,2 857:11 | tirelessly 985:19 | Torrance 985:14 |
| 1007:3 | Thursday 596:4 | 860:3 862:13 | tobacco 772:8,17 | Torres 1002:7 |
| thinking 607:11 | 942:8 | 867:4,9 869:6,7 | 772:19 | total 617:12,13 |
| 706:21 717:18 | tie 969:19 | 869:21 873:4,12 | today 601:13 625:1 | 623:21 821:14,21 |
| 718:17,18 719:6 | tied 729:14 760:6 | 874:16 877:20 | 712:17 715:16,17 | 864:2 867:7,12 |
| 744:7,8 751:2 | Tier 874:17 | 891:3 892:2,20,22 | 727:7 730:22 | 996:18 |
| 753:15 788:21 | tight 824:2 | 894:13 895:13,22 | 731:17 749:2 | totaled 623:4 |
| 873:4,20 876:9 | tighter 938:13 | 896:14 897:1,16 | 754:15 759:11,11 | totaling 696:8 |
| 884:15 885:22 | time 601:15,17,18 | 897:19 898:16 | 770:13 807:10 | totally 757:14 |
| 930:19 936:22 | 604:1,2,9 605:10 | 900:5 901:6,7 | 814:18 825:19 | 804:12 860:15 |
| 937:4 940:21 | 608:17,19 614:21 | 904:16 905:5 | 826:15 827:19 | 927:10 947:4,8 |
| 944:8 948:6 | 619:5 621:10,22 | 908:1 909:7 | 828:2 891:14 | totals 647:12 830:3 |
| 988:18 993:13 | 622:7,14,17 623:6 | 918:13 920:5,16 | 909:18 938:4 | touch 761:4,5,6,9 |
| 998:10 999:2 | 629:13,13 632:15 | 925:7,8,8 927:2 | 952:3 961:5,14 | 819:21 844:21 |
| third 608:16 638:1 | 633:8,14,18 | 929:16 930:16 | 962:2 963:10 | 845:10,19 847:1 |
| 677:4,6,22 681:2 | | | | touched 744:22 |
| * * | 635:15 639:6 | 931:8 936:13 938:15 942:21 | 966:5 967:2,21 972:9 974:9 979:5 | |
| 750:11 787:16,20 | 647:18,18 648:19 | | | tough 705:3 716:5 |
| 811:10 856:22 | 649:7 651:6,10,17 | 944:15 954:11,13 | 979:10 999:17 | 762:20 831:10 |
| 857:1 958:19 | 652:12,14 657:2 | 956:12 957:5,8,11 | 1000:1 1003:9 | 844:3 |
| 959:5 970:3 | 661:9,21,22 662:2 | 957:12 959:12 | 1006:1 | tougher 658:15 |
| 975:12 977:18 | 663:5,7 667:5 | 962:11 967:6 | today's 603:1,12 | town 972:16 |
| third- 949:15 | 677:14 681:2 | 969:16 970:12 | 613:20 678:10 | track 610:3 612:16 |
| third-parties 817:8 | 682:2 684:4 695:2 | 972:5 976:12 | told 666:12 667:20 | 612:17 617:9 |
| third-party 779:7 | 697:7 702:5 703:2 | 979:1 980:8 | 673:7 706:1 | 626:18 645:16,18 |
| 779:10,12,22 | 704:3 706:19 | 983:20 984:19 | 726:12 747:10 | 656:6 672:14,21 |
| 781:17 796:5 | 707:2 708:14 | 987:7 988:19,19 | 763:1 794:6 932:7 | 674:3 675:15,21 |
| 820:5 847:5 | 709:18 710:3 | 989:9,9,17,22 | 976:1 1006:8 | 675:22 676:4,5,22 |
| thorough 839:17 | 712:1,5,11 713:1 | 993:7 995:1,1,5 | tomorrow 711:3 | 677:1,4,6,12,22 |
| thought 620:12 | 714:13 715:11 | 995:21 996:14,20 | 879:15,18 | 681:11 700:4 |
| 629:5 648:21 | 717:14,20 719:18 | 997:2,5,16,20 | ton 720:22 | 703:6 769:17 |
| 652:1 661:12 | 719:19,20 722:16 | 998:1 1000:2,16 | tone 645:10 | 776:4 786:15,19 |
| 662:12 711:6 | 725:6,10,18 | 1000:16 1004:16 | tons 674:18 694:2 | 811:3,13,19 828:8 |
| 772:4 795:9 843:3 | 727:16 731:3,12 | timed 751:17 | 952:15 | 829:14 830:11 |
| 859:17 872:20 | 731:22 733:7 | timeline 691:14 | tool 626:16 808:6 | 832:13 840:2 |
| | | | | |
| | | | | |

| | | | | 1496 1033 |
|-------------------------|---------------------|------------------------|---------------------------|---------------------------------------|
| 050 0 051 10 | 075 22 276 5 7 10 | 607.0 611.01 | 007.7 | 007.11.010.7 |
| 859:2 871:12 | 975:22 976:5,7,10 | 607:3 611:21 | 997:7 | 907:11 910:7 |
| 873:15 896:7 | 976:22 993:17 | 618:10,17 620:17 | triple 696:7 | 913:9 915:1 |
| 940:17 949:15 | 994:7 998:2 | 623:21 625:4 | tripling 732:14 | 916:17 917:17 |
| 967:6 969:12,18 | 1000:9,11 | 631:15 679:17 | truck 613:2 700:15 | 920:14 930:6 |
| 969:21 970:1 | train's 995:9 | 683:16 690:6 | 707:21 760:17,20 | 944:2 947:22 |
| 971:10,14 982:12 | trainloads 994:10 | 691:19 695:11 | 804:15 805:9 | 948:9 950:22 |
| 982:15,19 983:6 | trains 626:9 672:11 | 722:4 754:14,18 | trucked 612:13 | 987:11 988:10 |
| 983:15 985:15,20 | 672:15 673:9 | 771:1,6,9 814:4 | truckers 765:17 | Tuesday 701:10,11 |
| 986:2 | 674:9 678:22 | 826:8 828:4 883:4 | trucking 804:15,20 | 802:13 942:8 |
| trackable 777:8 | 679:1,7 680:22 | 951:20 952:6 | 805:5,17 806:19 | turn 649:14 659:2 |
| tracking 750:12 | 681:12 682:12,13 | 961:11 963:22 | truckloads 769:4 | 672:18 673:1 |
| 815:14,15 1003:1 | 683:10 684:7,18 | 965:5 966:3 | trucks 613:3 760:16 | 724:22 823:5 |
| tracks 643:1,14 | 684:22 685:10,11 | 968:20 972:1 | 765:22 805:3,11 | 827:14 881:8 |
| 645:10 676:17,20 | 685:13,20 686:19 | 974:18 | 805:13 | 888:7 937:13 |
| 676:20 764:19 | 686:19,22 687:8 | transportational | true 609:11 665:10 | 954:7 1003:11 |
| 833:3,7 962:21 | 688:2,6,11,15 | 670:13 | 829:1,6 845:3 | turned 963:11 |
| traction 969:9 | 705:1,8 706:3,6 | transported 952:10 | 850:16,18 851:18 | turning 701:18 |
| trade 596:7 952:8 | 706:21 711:9,14 | traveled 957:5 | 864:4 897:2 992:9 | turnover 667:21 |
| trade-off 942:15 | 711:15 716:14 | treat 657:15,18 | 999:9 | 712:1 |
| 988:2,5,6 | 719:19 721:3 | 721:21 726:4,6 | truly 754:6 1004:5 | two 618:21 619:14 |
| traded 952:11 | 764:6,11 816:15 | 727:3 | trust 767:5,8 | 621:12 630:14 |
| traditional 907:7 | 828:20 829:8 | treated 725:19 | trusted 766:22 | 637:10 671:14 |
| traffic 600:3 606:8 | 830:18 848:3 | 731:14 749:13 | truth 636:2 754:6 | 676:17,20 694:10 |
| 650:9,9 692:11 | 903:11 926:17,18 | 808:7 918:1 936:9 | truthful 753:22 | 694:13 701:12 |
| 706:2 766:2 | 928:10 950:12 | 999:6 | try 623:15 625:12 | 721:19 728:2 |
| 812:11 815:18 | 956:5 959:11 | treating 776:9 | 637:4 639:19 | 733:18 734:13 |
| 828:11 901:21 | 961:21 962:12 | treatment 939:10 | 650:17 703:7 | 742:13,14 744:17 |
| 904:19 950:11 | 969:1 970:18 | 965:19 998:12 | 707:14 735:22 | 749:4,11 761:10 |
| 951:8,18 974:17 | 973:1 984:17 | tremendous 967:11 | 761:8 782:7 | 766:4 779:3 |
| 1000:10 | 994:2 | 1003:16 1004:12 | 787:18,19 790:3 | 788:15,21 795:21 |
| train 667:7,20,21 | transaction 649:6 | trend 908:5 | 792:11 797:3 | 802:9,12,22 820:8 |
| 672:1,9,18 673:1 | transactions 777:5 | trending 673:9 | 855:19 876:17 | 826:14 834:4 |
| 673:20 677:8,9 | transcript 932:19 | tricky 745:7 | 878:11 882:11 | 841:1 849:15 |
| 678:5 679:2,11 | transfer 723:14 | tried 662:12 700:11 | 884:20 889:22 | 854:21 861:12 |
| 680:17 681:4,14 | 749:18 | 738:21 742:2 | 895:8 915:6 | 877:3 884:2,7 |
| 681:19 682:8,17 | transit 628:17 | 791:20 978:11 | 944:15 967:15 | 889:5 892:14 |
| 687:2 688:14 | 635:13 644:21 | Triesch 598:6 693:8 | 985:20 | 895:3,9 905:22 |
| 701:3,4,7 704:8 | 728:19 746:13 | 693:10,14 725:7 | trying 627:11 | 943:14 944:8 |
| 704:15 705:1,19 | 817:9 942:1 993:7 | 725:12,16,21 | 632:17 645:6 | 952:5 953:9 |
| 706:9 707:4 709:3 | transition 988:13 | 726:9 727:12,15 | 647:22 648:1,12 | 963:19 964:18 |
| 710:10 713:18,20 | translates 830:16 | 728:11 729:4,9,20 | 655:11 663:18 | 965:13 968:6,7 |
| 714:3 715:2 | transload 612:11 | 741:3,6,10 742:1 | 667:20 708:20 | 974:8 982:1,16 |
| 716:17 719:21 | 612:19 613:11 | 742:8,14,20 743:6 | 709:10 714:13,14 | 988:18 990:2 |
| 720:2,4,4 729:10 | transloading | 743:11,17,20 | 715:15 717:1,1 | 996:9,12 |
| 731:7 751:19 | 700:15 | 744:5,13,22 745:8 | 718:10 734:5 | two-thirds 760:7 |
| 764:15 827:3 | transmission | 745:13,16,19 | 739:9 742:21 | 780:5 |
| 829:14,15 830:11 | 974:12 978:2 | 747:6,19 748:4,10 | 743:18 749:14 | two-ways 713:5 |
| 886:21 887:11,16 | transparency 609:3 | 749:22 750:13 | 753:15 786:10 | type 660:10 661:1 |
| 888:7,19 954:6,11 | 622:19 775:11 | 751:12 753:21 | 790:2 793:22 | 690:20 873:19 |
| 954:16,18 955:13 | 878:2 887:4 929:7 | 751:12 753:21 754:5 | 794:18 795:18,20 | 876:14 887:6 |
| 955:15,17 956:2,7 | transparent 682:16 | triggered 608:13 | 796:16 862:22 | 935:9 |
| 957:5,9,12,17 | 777:2 793:5 | trip 606:16 809:16 | 863:16 864:5 | types 896:1 |
| 958:3,7,20 959:18 | 835:13 836:11 | 968:8 969:1,15 | 867:20,21 877:13 | typical 857:20 |
| 959:20 960:3 | 840:18 | 988:9,13 989:3,9 | 879:9 885:8 | typical 857.20 typically 856:18,21 |
| 962:19 969:1 | transportation | 989:9,17,21 993:7 | 890:14 891:7 | 857:3 968:17 |
| 970:1,15 971:1 | 596:1 600:6 603:4 | 996:7,17,18 997:6 | 893:6 901:3 | 051.5 700.17 |
| 7/0.1,13 9/1.1 | 370.1 000.0 003.4 | 770.7,17,10 77/:0 | 073.0 701.3 | |
| | • | • | • | • |

| | understanding | 886:21 887:11 | 884:9 892:13 | 608:15 639:12 |
|-------------------------|---------------------------|----------------------|---|----------------------------|
| <u>U</u> | 606:2 662:10 | 888:7,19 903:11 | 893:7,10 898:11 | 649:21 650:10 |
| U.S 596:7 597:21 | | | | |
| 603:4 637:17 | 731:14 783:22 | 955:13,15,17 | 900:19,22 912:3 | urges 960:21 |
| 670:15 671:15 | 784:18 799:16 | 956:2,4,7 961:21 | 956:12 957:12 | urging 645:13 |
| 692:6,8 732:19,20 | 904:11 918:11,12 | 962:12 984:17 | 959:11,19 960:9 | 802:3 |
| 732:22 770:21 | 933:12 956:4 | 993:16,21 | 962:20 994:3 | usage 867:5 |
| 781:2 825:20,21 | 982:3 988:17 | United 599:16 | unloads 682:13 | USC 620:16 679:16 |
| 826:18 827:1,4 | understood 708:21 | 692:11 736:3,5 | unnecessarily | use 609:21 618:15 |
| 828:6,10 829:18 | 783:15 798:13 | 815:19 821:9 | 959:21 960:10 | 621:15 622:2,14 |
| 829:20,22 830:4,7 | 852:20 854:8 | 826:18 890:13 | unnecessary 606:16 | 626:17,20 631:5 |
| 830:8 962:1,2 | undertake 807:15 | units 674:9 711:9 | 960:14 | 643:14 644:22 |
| U.S.C 618:9 | undertook 1001:12 | 902:5,7 | unprecedented | 646:1 678:17 |
| ultimately 702:15 | undue 622:1 627:7 | unknown 852:2 | 828:1 | 711:11 752:16 |
| 748:11 918:7 | unexpectedly 871:8 | unlimited 743:2 | unpredictability | 767:1 790:16 |
| 928:5 935:1 945:5 | unfair 622:22 | unload 673:20 | 954:4 | 807:21 808:5 |
| | 653:21 661:17 | 677:5,21 679:2,11 | unpredictable | 810:9,22 811:19 |
| 959:16 | 692:13 703:8 | 684:6 687:2 705:5 | 693:2 | 812:3 815:13 |
| un-prove 925:11 | 833:18 | 705:11 712:12 | unpredictably | 824:3 825:4,13 |
| unable 690:19 | unfairness 698:5 | 713:7 714:3 720:4 | 957:2 | 833:4 877:20 |
| 702:10,19 775:7 | 958:14 | 755:17,18,19 | unprepared 606:15 | 878:22 879:8 |
| 937:14 954:10 | unfortunately | 758:14 760:20 | unprepared 606:13 unrealistic 728:15 | 887:19 910:11 |
| 959:5 | | | | |
| unaware 683:7 | 777:20 793:1 | 764:1 768:15,18 | unreasonable | 919:12 941:12 |
| uncertainty 685:15 | 794:17 952:17 | 770:6 773:19 | 608:21 616:1 | 945:19 977:4 |
| 715:21 717:7,8 | 968:11 | 801:21 803:19 | 620:8,12,15 | 993:12 |
| 797:7 | unified 673:6 | 831:15 832:11,17 | 651:13 661:22 | user 772:19 788:4 |
| unchanged 821:3 | uniformity 887:6,8 | 833:13,17 868:3 | 680:7 682:5,20 | uses 676:21 817:3 |
| 848:15 | unilateral 964:1 | 878:14 886:21 | 688:9 723:5 753:1 | 978:2 |
| unclear 1000:14 | unintended 625:22 | 888:22 893:22 | 753:5,13,18 870:9 | USF 624:4 |
| under-utilized | 774:6 778:6 | 911:11 913:4 | 879:5 917:10 | usual 982:6 |
| 644:2 | 779:19 796:15 | 914:16 915:3,8 | 933:15,15,16 | usually 637:17 |
| undercharging | unintentionally | 916:5 919:16 | 934:8,10,13 959:7 | 639:11 644:3 |
| 890:3 | 797:8 | 951:1 954:12 | unreliable 684:3 | 737:12 805:16 |
| underlying 610:8 | Union 606:9 611:18 | 958:7 976:10 | 973:20 | 850:9 1000:15 |
| 621:8 839:7 | 671:1 672:13 | unloaded 688:15 | unresolved 696:16 | utilities 952:12 |
| 851:15 | 675:5 676:21 | 697:13 756:21 | unsafe 834:18,20 | 961:16 962:22 |
| underpin 813:4 | 685:5,8 686:13 | 815:15 830:13 | unscheduled | utilization 628:19 |
| understand 637:11 | 704:17 707:2 | 913:1 950:17 | 685:10 686:19 | 629:12 630:17,20 |
| 641:15 645:6 | 716:16,16 717:11 | 958:20 | unshipped 769:4 | 631:3 681:22 |
| 651:8 676:2 713:5 | 952:13 966:20 | unloading 616:14 | untenable 774:14 | 684:21 701:15 |
| 734:6 737:7 754:2 | unique 625:13 | 616:16,20 619:18 | unusual 639:21 | 762:5 780:5 |
| | 793:12 815:11 | 619:20 621:22 | unwarranted 778:7 | 826:20 828:17,22 |
| 785:10 788:3,22 | 816:14 | 622:6 655:9 | unwillingly 691:11 | 830:12 832:5 |
| 790:2 794:5 | uniquely 779:15,16 | 672:17 673:3,15 | unworkable 651:14 | 833:15 835:10 |
| 796:12,19 800:10 | unit 670:12 673:9 | 673:19,21 677:16 | UP's 604:19 606:21 | 881:15 |
| 800:14 811:6 | 678:5,22 679:7 | 677:17 679:10,13 | 611:19 672:19 | utilize 762:6,7 |
| 839:20 840:16 | | 680:17 687:5,6,8 | | utilized 683:20 |
| 853:4 863:16 | 681:19 683:10 | | 680:5,10,11 682:7 | |
| 864:5 882:13 | 684:18 685:10,13 | 688:11 707:4 | 683:3,14 684:1 | 688:22 954:22 |
| 884:3 893:10 | 686:19,22 687:8 | 711:22 729:1 | 686:17 687:21 | Utilizing 871:19 |
| 895:2,11 913:8 | 704:8 705:8,12,18 | 735:15 745:12 | 718:9 886:22 | utterly 609:7 |
| 916:17 928:7 | 706:3,6,9,21 | 750:9 758:13,14 | 953:19 954:5,9 | T 7 |
| 933:10,18 934:7 | 707:4 709:2 | 758:15 795:4 | 955:16 956:10,13 | V |
| 934:12,14 947:5,9 | 710:10 711:9,10 | 808:12 832:8,14 | 958:4,8,9,20 | vacuum 922:10 |
| 961:13 970:17 | 711:14,15 713:18 | 833:7,11 849:16 | 959:5,6,14 | 929:15 |
| 989:2 | 713:20 714:3 | 850:22 871:13 | upcoming 835:21 | Val 1002:20 |
| understandable | 715:2 716:14,17 | 872:22 873:6 | ups 747:8 | valid 790:18 840:13 |
| 606:14 | 719:19 731:7 | 881:14 882:14 | upstream 604:17 | validity 775:8 |
| | | | | |
| | | | | |

| 965:14 | 952:19 | 990.22 992.12 21 | 020.5 021.5 | 675.1 9 605.2 |
|---|--|--|---|--|
| valuable 624:18 | viable 690:5 962:17 | 880:22 882:13,21 883:3,8,18 893:9 | 920:5 921:5 922:20 923:5 | 675:1,8 695:2 698:10 701:6 |
| 926:9 1004:16 | Vice 597:13 598:6 | 893:18 894:8,14 | 924:18 926:14 | 705:11 707:15 |
| valuation 776:5 | | 894:17 895:2,7,10 | 928:6 933:12 | 715:16 716:5 |
| value 624:21 | 598:18 599:4,8,12 600:10,16 623:13 | 930:13,21 931:12 | 993:12 | |
| 625:15 627:15 | * | | | 717:3,10 719:2,22 |
| | 623:17 632:3,19 | 931:16 932:1 | viewpoint 949:21 | 723:2,3 727:11 |
| 629:17 762:11,16 | 633:4,12,21 634:6 | 933:6 937:21 | views 632:11 | 728:8 729:14,15 |
| 823:10 828:16 | 634:11,16 635:5,9 | 938:3,6,14,18 | 839:10 968:3 | 735:4 737:22 |
| 834:19 906:14 | 636:5,12,16,19 | 939:5,10,14,17,21 | VIII 597:2 602:18 | 740:18 746:18 |
| 947:2 | 637:2,7,15,18,20 | 940:2,8,14,20 | violating 793:7 | 749:9 752:12 |
| value-add 823:17 | 638:5,9,13,22 | 941:2,9,15 942:6 | 914:12,14 915:14 | 756:7 759:17,19 |
| valuing 762:17 | 639:13,20 640:11 | 942:14,17 943:7 | violation 910:18 | 760:11,12,13 |
| Vancouver 845:6 | 640:20 654:10 | 944:2,12,21 | 912:16,18 | 762:6,7 770:14 |
| 890:11 | 655:1,5,16 656:1 | 945:14 946:4,14 | violations 618:9 | 772:9 773:13 |
| vantage 676:17 | 656:8,15 657:6,17 | 946:22 947:4,8,13 | virtually 774:17 | 779:3 782:2 |
| variability 651:15 | 658:6,14,22 659:7 | 947:17,21 948:8 | 972:5 | 789:22 792:15 |
| 728:19 746:13 | 659:13,18 660:2 | 948:12,17 950:2 | visibility 775:10 | 798:18 803:20,21 |
| 753:2 809:12 | 661:16 662:3,14 | 951:3,14 966:2,7 | 817:13 871:21 | 804:2 806:18 |
| 902:22 903:13 | 669:1,12,17,21 | 974:13 988:1,8 | 926:21 928:10,12 | 835:10 842:20 |
| variable 723:11 | 693:10 718:14 | 989:11,14,16,20 | vision 624:20,21 | 850:2 852:19,22 |
| 858:20 881:17 | 719:16 720:6 | 990:1,18 991:19 | 625:2 631:13 | 853:6,12 854:7 |
| variables 650:11 | 721:6,18 722:7 | 992:16 993:19,22 | 807:18 | 863:20 864:16 |
| variations 751:9 | 723:6,20 724:5,12 | 994:4,11 995:3,10 | vital 978:18 | 866:8 869:11,18 |
| variety 604:11 | 724:15,21 725:8 | 995:13,17 996:4 | vocabulary 972:3 | 874:3,3,8,20,20 |
| 621:2 723:12 | 725:13,17,22 | 996:16 997:4,11 | volume 631:1 690:4 | 878:13,15 879:16 |
| 827:10 886:10 | 727:6,14 728:10 | 997:14 998:8 | 698:17 773:18 | 883:15,22 887:5 |
| various 614:6 | 728:16 729:5,17 | 999:1,19 1000:21 | 871:6,7 883:1 | 891:18 909:7 |
| 619:17,18 687:17 | 730:19 744:20 | 1004:1 | 901:19 904:19 | 911:6 912:8 |
| 689:21 819:17 | 745:9,15,18,21 | Vice-President | 905:8,10,12,22 | 913:10,22 921:14 |
| 000.7005.7001 < | | | | |
| 820:7 825:7 881:6 | 746:3 747:1,18 | 693:14 | 906:3,6,20 997:19 | 922:3 923:6 |
| 989:3 | 748:3,7 749:8 | video 601:22 | volumes 613:19 | 931:16,21 933:10 |
| 989:3 vary 640:10 | 748:3,7 749:8 750:1,15 752:19 | video 601:22 Viers 597:20 | volumes 613:19 628:1 721:10 | 931:16,21 933:10 945:6 947:9 |
| 989:3 vary 640:10 varying 827:22 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 | video 601:22 Viers 597:20 670:14 674:21 | volumes 613:19 628:1 721:10 844:6 846:18 | 931:16,21 933:10 945:6 947:9 948:13 949:18 |
| 989:3 vary 640:10 varying 827:22 876:19 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 versus 626:3 656:16 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 868:20 869:1,4,8 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 847:12 873:22 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 want 602:8,11 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 800:11 802:18 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 versus 626:3 656:16 658:13 674:9 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 868:20 869:1,4,8 869:11 870:2,14 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 847:12 873:22 874:8 880:9 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 want 602:8,11 633:15 638:19 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 800:11 802:18 933:4 970:13 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 versus 626:3 656:16 658:13 674:9 683:4 687:9,14 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 868:20 869:1,4,8 869:11 870:2,14 870:17,20 871:1 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 847:12 873:22 874:8 880:9 884:22 887:13 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 want 602:8,11 633:15 638:19 640:21,22 641:22 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 800:11 802:18 933:4 970:13 976:12 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 versus 626:3 656:16 658:13 674:9 683:4 687:9,14 719:7,19 822:2 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 868:20 869:1,4,8 869:11 870:2,14 870:17,20 871:1 872:13 874:18 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 847:12 873:22 874:8 880:9 884:22 887:13 888:5,18 890:15 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 want 602:8,11 633:15 638:19 640:21,22 641:22 644:7 646:11 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 800:11 802:18 933:4 970:13 976:12 wanting 767:2 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 versus 626:3 656:16 658:13 674:9 683:4 687:9,14 719:7,19 822:2 844:1 860:6 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 868:20 869:1,4,8 869:11 870:2,14 870:17,20 871:1 872:13 874:18 875:4,13,18 876:2 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 847:12 873:22 874:8 880:9 884:22 887:13 888:5,18 890:15 911:7 913:11 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 want 602:8,11 633:15 638:19 640:21,22 641:22 644:7 646:11 652:2 653:20 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 800:11 802:18 933:4 970:13 976:12 wanting 767:2 790:10 921:21 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 versus 626:3 656:16 658:13 674:9 683:4 687:9,14 719:7,19 822:2 844:1 860:6 864:10 884:2,6 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 868:20 869:1,4,8 869:11 870:2,14 870:17,20 871:1 872:13 874:18 875:4,13,18 876:2 876:7 878:17 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 847:12 873:22 874:8 880:9 884:22 887:13 888:5,18 890:15 911:7 913:11 914:11 916:18,19 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 want 602:8,11 633:15 638:19 640:21,22 641:22 644:7 646:11 652:2 653:20 655:21 659:2,5 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 800:11 802:18 933:4 970:13 976:12 wanting 767:2 790:10 921:21 925:13 935:3 |
| 989:3 vary 640:10 varying 827:22 876:19 vast 742:11 822:18 vastly 648:4 Vegas 701:21 vegetable 771:4 VEIRS 710:13 velocity 663:21 668:3 809:15 968:14 vendor 674:6 venture 798:10 verifiable 756:9,12 verified 759:6 verify 747:4 775:8 version 631:5 836:3 836:4,6 845:9 versus 626:3 656:16 658:13 674:9 683:4 687:9,14 719:7,19 822:2 844:1 860:6 | 748:3,7 749:8 750:1,15 752:19 754:3 770:11 799:8,15 800:10 802:22 804:1,5,13 804:22 805:4,7,10 805:20 806:9,15 807:1 814:12,14 826:15 849:10,21 850:8,15,19 851:1 851:5,8,11,17,21 852:5,10,16 853:12 854:10,18 855:6,10,15,18,20 856:4 863:14 864:4,22 865:2,6 865:8,13,20 866:6 866:15,18,21 867:19 868:1,18 868:20 869:1,4,8 869:11 870:2,14 870:17,20 871:1 872:13 874:18 875:4,13,18 876:2 | video 601:22 Viers 597:20 670:14 674:21 675:16,22 676:3 677:10 704:11,15 704:17 705:14,20 706:18 707:11 709:5,9,17 711:6 711:20 712:3,8,14 712:19 713:9,12 713:15,21 714:6,8 714:19,22 715:4 716:1 717:4,10 718:8 view 628:1 632:14 633:4 640:4,15 645:19 719:5 724:16 749:12 771:5 799:11 847:12 873:22 874:8 880:9 884:22 887:13 888:5,18 890:15 911:7 913:11 | volumes 613:19 628:1 721:10 844:6 846:18 871:5,6 975:15,17 voluntarily 916:9 voluntary 952:8 vortex 708:22 831:8 W Waddell 1002:2 wait 833:14 872:6 937:9 waiting 829:9 965:1 waive 620:1,3 628:22 647:17 waiving 637:6 Wall 726:15 743:8 wand 661:7 wandering 789:2 want 602:8,11 633:15 638:19 640:21,22 641:22 644:7 646:11 652:2 653:20 | 931:16,21 933:10 945:6 947:9 948:13 949:18 950:3 966:18 968:3 970:16 972:21 978:15 981:11 985:22 1000:17,22 1001:5,9,10 1003:11,17 1005:5 1007:3 wanted 646:21 653:3 663:15 675:9 707:13 710:7 712:16 715:10 739:18 741:15,21 747:22 748:1 758:21 790:20 799:3 800:11 802:18 933:4 970:13 976:12 wanting 767:2 790:10 921:21 |

| 022.4.001.12 | 052.14.061.16 | 700.14.701.6 | | 007.0 10 15 |
|--------------------|--|-------------------------------------|----------------------------------|---------------------------------|
| 922:4 991:13 | 853:14 861:16 | 780:14 781:6 | weather 710:3 | 997:9,12,15 |
| 1003:9 | 867:4,14 878:2 | 783:20 788:10 | 751:13 830:21 | wheat 597:20 |
| Ward 600:7 740:21 | 879:11 880:7 | 793:1,4 794:9 | website 602:1 836:2 | 670:15 671:1,8,14 |
| 961:8,9 965:3 | 881:6 886:2 887:7 | 801:2 814:7 | WEBSTER 922:5,9 | 671:18 672:3,4,6 |
| 979:16,20 | 897:6 906:12 | 822:14 842:10 | 923:1 Wadnasday 672:20 | 674:5,6,12 677:15 |
| warehouse 598:10 | 913:12 915:8 | 843:20 844:6,8,16 | Wednesday 672:20 | 686:7 707:18 |
| 755:8 759:2 782:5 | 930:7 943:16 | 848:7,8 855:5 | 802:16 898:19 899:11,12 942:8 | 710:2 whichever 686:7 |
| warehousemen 757:5 | 946:11 962:21 | 856:18,20,21 850:7 860:4 | * | whine 766:15 |
| warehouses 598:17 | 967:14 973:10,12 981:16 990:19 | 859:7 860:4 862:20,22 864:20 | Wednesdays 883:12 | whining 762:1,2,20 |
| 720:22 755:20 | 992:1 993:2,5,13 | 862:20,22 864:20 865:5,15 871:17 | week 761:5 787:18 | white 676:22 677:6 |
| 778:21 779:9 | 996:1 998:16 | 875:22 883:12 | 787:19 832:15 | whoever's 805:16 |
| warning 932:2 | 999:9,10 1000:11 | 884:8 885:8,19 | 850:20 851:7 | 918:5,8 |
| warrant 609:22 | - | 890:3 908:13 | 875:10 882:12 | wholeheartedly |
| 812:18 | ways 628:14 707:14 753:15 776:3 | 910:17 912:15 | 883:10 940:15,16 | 779:17 |
| warranted 605:5 | 778:13 782:19 | 915:1 918:22 | 970:5 | wholesale 707:2 |
| wash 881:6 | 783:1 792:22 | 920:12 923:15 | weekend 652:20 | wide 621:2 771:1 |
| Washington 596:9 | 812:12 832:4 | 924:9,10,14 930:6 | 898:18 | widely 694:21 |
| washout 969:12 | 873:8 887:1 989:3 | 937:17 938:12 | weeks 614:10 | 827:21 |
| wasn't 708:15 | 990:2 996:22 | 944:7 945:4 | 787:12 837:12 | wildly 858:20 |
| 784:17 849:1 | WCTL 951:18,21 | 950:21 967:7,22 | 963:5 | willing 654:3 708:3 |
| 920:1 932:10 | 952:4,8 953:18 | 968:2 976:1 985:5 | weigh 780:10 884:6 | 800:7 976:10 |
| 986:16 1006:5,12 | 955:7,22 957:4,13 | 988:6 994:9 | 934:15 | willingness 959:14 |
| waste 628:14 694:1 | 957:20 958:8 | 1001:17 1005:6 | weight 677:21 | win/win 644:10 |
| wastes 959:21 | 960:21 961:4 | 1005:16 | welcome 601:2 | wind 932:5 1003:21 |
| watch 728:1 754:2 | we'll 653:15,16 | we've 632:6 641:4 | 797:2,3,14 800:2 | window 605:6 |
| watched 765:17,18 | 670:6 710:22 | 648:5 660:3 661:5 | 880:8 1003:10 | 619:4 672:18 |
| 765:18,19 | 716:2,4 726:20 | 664:2 675:18 | welcomed 790:18 | 760:17,18,19 |
| watching 759:13,15 | 801:21 802:16 | 677:14 696:18 | welcomes 826:2 | 898:17,20 |
| 805:2,9 | 807:8 843:5 923:2 | 697:5 698:14 | welder 969:21 | windows 829:4 |
| waterfront 1003:15 | 1007:17 | 700:11 701:20,21 | well-defined 609:8 | 931:20 |
| way 607:14,15 | we're 613:8 630:15 | 703:6 704:9 | well-grounded | wing 710:11 |
| 618:13,20 641:3 | 636:9 637:16 | 705:21,22 725:2 | 948:15 | winter 829:2 831:4 |
| 643:1 644:6 | 638:17,18 645:11 | 730:20 747:10,12 | went 602:17 699:2 | 831:5 903:8 |
| 646:19 648:3 | 646:7,9,16 647:14 | 747:19 749:10 | 699:6 715:4 | 908:17 |
| 650:8 656:7 | 647:14,16,22 | 764:5 765:8,16 | 733:10 741:16 | wipe 990:21 |
| 659:10 663:3,12 | 648:1,12 652:7 | 766:4,19 774:13 | 747:21 748:10 | wipes 991:1 |
| 663:13,14 664:14 | 656:18 668:1 | 782:9 788:14,16 | 765:10 870:19 | Wisconsin 830:7,9 |
| 668:14 672:12 | 677:13,19 678:6 | 788:17 795:10 | 888:13 900:19 | 831:9 |
| 675:11 676:13,15 | 695:17 696:17 | 803:5 807:10 | 901:8,10 902:10 | wise 662:20 |
| 690:12 697:15 | 698:9,17 699:21 | 841:10 842:1,14 | 903:3,6 906:18 | wish 602:5 630:12 |
| 699:19 700:19 | 701:14,16 702:18 | 843:13,13 845:2 | 976:18 992:17 | 630:14,17 743:11 |
| 701:13 707:18,20 | 702:19 708:3 | 845:21 846:6 | 1004:17 | 795:13 952:4 |
| 708:21 709:14,20 | 709:20 711:2 | 853:10 856:4 | weren't 708:11 | withering 963:13 |
| 711:2,10 716:18 | 713:15 716:2 | 860:11 883:13 | 739:19 862:15 | witness 601:16 |
| 719:5,13 722:7,14 | 717:1 718:2 | 887:14,17 889:1 | west 677:14 695:17 | witnesses 601:5,8 |
| 724:16,19 729:14 | 728:13 729:22 | 904:3 906:20 | 701:18 952:9 | 601:14 826:15 |
| 737:8 738:10 | 730:1 736:1,19 | 923:17 925:21 | 975:10 | 932:7 979:8 |
| 744:6 746:12 | 740:10 742:21 | 929:21 933:13 | Western 600:3 | wonder 664:7 881:2 |
| 748:11 750:14,20 | 744:9 748:20 | 941:11 949:6,13 | 951:8,17 962:2 | 893:13 |
| 751:15 752:3,20 | 749:2 750:19 | 949:14,15,20 | 974:16 | wondered 664:8 |
| 753:3 759:12 | 751:2 752:8,21 | 975:10 985:21 | Whalen 600:4 | wondering 632:11 |
| 767:20 773:6,7 | 755:9 759:10 | 990:3 1003:1 | 951:13,15 979:13 | 634:1,18 644:13 |
| 779:20 786:21 | 766:2,3 767:15 | weakens 774:9 | 993:16,20 994:1,5 | 654:13 722:9 |
| 793:8 797:9 | 772:21 779:7,10 | wear 967:15 1000:4 | 994:20 995:4,12 | 795:8 799:9 |
| 804:17 812:10 | 779:12,15 780:10 | wearing 974:8 | 995:14 996:14,18 | 856:14 878:18,21 |
| | l | l | ĺ | ĺ |
| | | | | |

| 004.14.002.12 | 722.11.721.20 | | 907.12 909.6 | |
|--|---|--------------------------------------|---------------------------------|----------------------------------|
| 884:14 893:12 | 722:11 731:20 | Y | 897:12 898:6 901:15 903:5,17 | yellow 601:18 Yep 722:6 910:2 |
| word 911:1 923:5,6 words 618:1 636:8 | 742:9 814:7 | ya 723:9 | , | 980:20 |
| 675:7 742:4,12 | 830:11 836:13 838:22 839:20 | yard 614:12,15 | 907:22 908:16 925:2 926:15 | yesterday 601:6,11 |
| | | 615:8,10 619:17 | | 604:6,19 605:7,19 |
| 745:5 753:13 910:11 | 866:12 920:21 993:18 1002:19 | 620:2,5 665:17 | 930:13,18,21 | 608:18 632:9 |
| work 602:16 627:10 | world 641:5 694:22 | 674:16,22 675:1,3 | 937:21 938:5,11 | |
| 627:16 628:12,16 | | 675:6,8,12 676:6 | 938:14 939:9,13 | 635:10 641:8,22 |
| · · · · · · · · · · · · · · · · · · · | 804:8 830:20 | 676:10 678:8 | 939:16 940:1,13 | 648:18 651:22 |
| 629:13 630:1 | 970:10 | 684:19 697:7 | 940:19 941:9,15 | 656:17 663:16 |
| 631:20 640:17 | world's 720:20 Worldwide 624:3 | 699:18 700:5 | 942:16 943:6 | 664:3 668:6 698:1 |
| 668:19 697:18,20 | | 701:7,8 702:11 | 944:1,21 947:16 | 701:4 708:19 |
| 697:20 701:1 | worries 706:7 | 713:21 719:10 | 947:20 948:7,10 | 714:12,12 731:5 |
| 707:13 709:8 | worry 931:13 | 728:4 741:8 | 965:3 980:12 | 741:18 848:16 |
| 710:12 712:7 | worse 664:2 726:19 | 747:16,16 748:5 | 984:15 986:11,11 | 870:18 871:3 |
| 727:19 728:13 | worth 715:18 | 748:14,19,20 | 986:15 989:13,15 | 872:16 876:12 |
| 758:5,5,8,9 | 804:11 874:16 | 752:6,13 756:20 | 989:21 997:8 | 879:17 886:7 |
| 760:15 764:2,4 | 880:2 | 757:13,16 760:10 | 999:22 1005:21 | 887:12 932:7 |
| 765:4 773:2,10 | Wortham 1002:8 | 761:16 762:13,14 | year 603:8 611:19 | 959:2 979:7 |
| 787:14 788:12 | wouldn't 639:5 | 764:4,15,17,18,22 | 613:15 667:3 | 1002:3 |
| 797:3 798:10 | 643:15 700:16 | 769:13,13 787:8 | 672:8 694:2 696:4 | yesterday's 607:14 |
| 801:16 804:14,20 | 713:7 723:1,3 | 803:11 806:3,14 | 696:7,9 697:16 | 654:2 |
| 804:21 806:5 | 724:19 735:16 | 809:16 811:11 | 698:20 700:1 | Yikes 741:3 |
| 810:20 813:7 | 743:11 792:17,19 | 817:11 829:10 | 714:8,10,16 | York 671:4 715:8 |
| 814:16 818:19 | 878:15 914:15 | 862:9,10,12 872:7 | 715:20 721:11 | 715:10 |
| 825:13 829:4 | 916:12,14 933:10 | 874:4 889:22 | 724:2 732:11 | YRC 624:2 |
| 834:11 840:4 | 992:7 994:16,18 | 892:9 893:8 894:5 | 733:14 748:6 | YRC's 624:5 |
| 842:4 847:4 | 994:19 | 894:11 915:5 | 795:11 819:21 | Yukon 831:7 |
| 853:22 855:17,22 | write 711:4 766:22 | 919:15,18 938:22 | 820:9 825:22 | |
| 871:15 872:6,8 | writing 763:12 | 943:1,3 945:16,16 | 826:1 829:16,17 | |
| 878:11 882:7 | written 602:4 | 945:18 950:8,10 | 830:7 831:4 846:7 | Z 870:19,22 |
| 883:16 888:17,18 | 603:19 620:10 | 950:11,13,18 | 888:14 900:15,20 | zero 605:9 616:8,15 |
| 949:12 950:22 | 624:16 642:20 | 968:15 990:7,11 | 902:11,12 903:1 | 617:8,16 622:17 |
| 960:12 982:5 | 663:4 709:16 | 991:5 | 903:19 952:16 | 622:17,22 651:6 |
| 991:9 994:19 | 722:3 757:22 | yard's 741:8 | 983:1 996:21 | 651:10,12 652:2 |
| 995:16 1000:17 | 772:4,6 808:3 | yards 614:11 615:5 | yearly 822:2 901:5 | 661:20,22 662:1 |
| workable 662:12 | 818:17 846:12 | 626:13 690:15 | years 623:21,21 | 663:6,9 696:3 |
| 775:14 | 909:17 910:4 | 769:18 815:14,16 | 624:4 625:19 | 725:12,18 726:19 |
| worked 624:10,12 | 922:14 953:5 | 833:2,7 842:20 | 666:19 686:6 | 728:12 731:3,12 |
| 679:7 797:16 | 954:19 958:18 | 848:3 882:2 | 691:18 698:9,13 | 731:22 742:4 |
| 798:1 799:18 | 963:20 975:4 | yeah 633:12 636:16 | 698:15 707:21 | 743:3,9,10 749:5 |
| 887:17 888:13 | 976:6 1004:21 | 637:18 638:21 | 708:1,1,2 712:20 | 751:21 752:22 |
| 928:6 966:20 | wrong 648:8,19 | 640:8,11 658:14 | 714:17,21 726:13 | 753:4,9,18,22 |
| 985:19 996:2,3 | 787:16 840:5 | 666:3 676:3 | 747:20 748:16 | 758:10 842:19 |
| 1002:1 | 886:4 932:19 | 713:21 714:21 | 755:9 765:13 | 843:3,4 895:21 |
| worker 730:5 | wrote 932:20 | 719:15 723:16,16 | 766:20,20 774:13 | 896:12,13 897:1 |
| workforce 697:18 | Wyoming 690:2 | 727:6,14 734:21 | 781:4 827:18 | 897:19 899:19 |
| working 602:21 | 692:7 | 736:4 742:16 | 829:19 830:5,9 | 900:1,5 938:15 |
| 624:8,9 646:9,16 | | 744:18 745:15 | 843:12 844:16 | zero-credit 618:17 |
| 767:13 798:9 | X 500 0 572 17 | 748:9 752:8 768:9 | 845:2 846:10 | Zimmerman 1002:4 |
| 813:10 818:9 | X 598:9 673:17 | 783:14 799:15 | 848:9 859:11 | zone 651:15 |
| 831:10 856:22 | 674:15 679:6 | 804:22 806:22 | 887:15 888:2 | |
| | 754:10,12 807:7 | 844:13 845:15 | 889:2 900:13 | 0 |
| 881:22 887:20 | | 077.13 073.13 | | |
| 903:22 904:3 | XI 599:2 807:3,4,6 | 858:1,2,13 865:2 | 908:12,21 909:1 | |
| 903:22 904:3 941:12 967:1 | XI 599:2 807:3,4,6 807:8,8 | | 954:2 956:9 | 1 |
| 903:22 904:3 941:12 967:1 Workman 1002:12 | XI 599:2 807:3,4,6 807:8,8 XII 600:2 951:7,10 | 858:1,2,13 865:2 | 954:2 956:9 966:19,22 967:3 | 1 616:5,10,12 |
| 903:22 904:3 941:12 967:1 | XI 599:2 807:3,4,6 807:8,8 | 858:1,2,13 865:2 867:19 868:18,20 | 954:2 956:9 | |

| | | | 1 | 1 |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 678:21 679:2 | 12 684:10 839:6 | 908:13 | 200- 901:9 | 24 651:18 652:1 |
| 682:2 687:6 | 909:2 958:5 | 17.7 822:1 | 2000 827:2 846:2 | 681:1 684:7 688:2 |
| 712:10 727:2 | 966:22 970:7 | 170 890:19 891:2,4 | 2006 827:10 | 688:7 725:15 |
| 742:6,15 743:10 | 998:5,5 1004:15 | 17th 673:5 717:20 | 2007-2008 698:15 | 727:10 742:6 |
| 830:8 893:11,15 | 12-hours 887:17 | 18 624:3 707:21 | 2009 973:16 | 758:9,12,14 |
| 893:22 898:10,11 | 12-month 960:3 | 708:1 726:13 | 2012 780:8 | 765:10 886:21 |
| 900:15,19,22 | 12% 957:15 | 771:20 838:5,7 | 2013 710:2 765:7 | 898:3,4,4,13,13 |
| 1% 627:21 647:12 | 12:01 617:1 687:14 | 839:3 908:13 | 831:9 869:7 898:7 | 900:9,9 958:21 |
| 1.2 623:4 673:3,22 | 12:02 687:14 | 18-day 838:12 | 2014 709:1 710:2 | 24-hour 660:6 |
| 687:4 705:10 | 12:59 652:6 | 18-hours 887:17 | 771:22 774:5,15 | 679:13 714:4 |
| 712:13 714:16 | 120 830:6 890:22 | 18.6 821:22 | 777:17,18 778:6 | 892:12 954:12 |
| 715:2,20 718:21 | 994:12,13,15 | 183,000 955:7 | 778:13 779:17 | 959:6,19 960:9 |
| 719:8,12 | 120,000 696:8 | 1891 755:7 | 781:14 784:9,19 | 994:3 |
| 1.3 830:4 | 124 993:21 | 19 695:21 827:18 | 791:20 794:17 | 24-hours 673:20 |
| 1.5 769:9 846:8 | 124,500 955:10 | 844:16 908:6 | 797:13,17 800:18 | 687:2 713:7 720:5 |
| 10 612:16 635:17 | 957:22 | 988:11 | 800:20,22 831:9 | 727:8 868:4 |
| 638:15 700:8,13 | 125 766:20 | 19,500-mile 828:9 | 901:9,11 | 887:17,22 935:14 |
| 746:11 750:5,10 | 128 755:9 | 19,640,000 908:15 | 2014-2015 672:7 | 959:11 |
| 750:10 754:9 | 13,000 825:13 | 190 830:1 | 2015 611:9 706:21 | 24/7 871:17 872:6 |
| 755:3 761:7 | 130 641:11,12 | 1930's 694:16 | 821:3 848:15 | 963:1 |
| 769:15 788:10,12 | 765:9 | 1960's 694:19 | 858:7 897:3,6,11 | 240,000 714:10,16 |
| 789:1,11 905:19 | 134 901:9 | 1995 679:15 | 901:7,8,12 | 25 674:9 755:8 |
| 908:6 914:10 | 135,000 696:9 | 1996 611:17 670:18 | 2016 614:15 706:22 | 786:18 829:21 |
| 942:9 957:15 | 752:10 | 1998 611:22 | 821:19,22 822:3 | 25% 905:13 977:21 |
| 998:3,4 | 14 602:3 677:13,15 | 1st 816:2 824:7 | 825:6 849:4,7 | 250 695:14 698:22 |
| 10-day 989:9,9 | 677:21,22 694:12 | 849:4,7 1005:1 | 908:13 | 25th 955:6 |
| 10% 710:17 | 697:4,8 701:10,10 | | 2017 612:10 613:6 | 26 761:4,5,6 |
| 10,000 714:2 | 729:12,13 749:6 | 2 | 822:3 901:10 | 26th 976:21 |
| 769:10 | 780:8 1003:8 | 2 603:7 614:8,9 | 2018 623:5 629:19 | 27 612:17 |
| 100 614:1 672:11 | 140,000 769:11 | 616:8,10,12 | 673:5,10 674:20 | 272,000 885:6 |
| 674:9 679:1 | 15 635:14 639:6 | 673:14 678:20 | 678:14 691:6 | 28 681:1 684:7 |
| 699:15 713:21 | 700:8 746:11,15 | 679:3 680:12 | 695:21 696:2 | 688:3,7 749:3,4 |
| 846:10 859:21 | 750:5 760:10 | 697:12 708:2 | 732:10 819:17 | 852:17 854:9 |
| 875:11 | 787:6,13 818:16 | 712:10 726:18,20 | 821:12,19,22 | 280 821:19 |
| 100-days 955:7 | 838:5,5,8,9,15,16 | 727:4,8,10,11 | 822:4 825:5 | 29 852:6 |
| 100% 822:14 | 838:17 839:3,3,3 | 728:15 729:21 | 826:22 828:11 | 29% 823:12 |
| 100,000 720:22 | 855:11,11 856:9 | 730:11 742:10 | 905:13,21 906:9 | |
| 752:18 | 856:15 857:4,8 | 743:3,9 757:17,17 | 908:6 958:19 | 3 |
| 100th 825:22 | 941:21 | 758:16 761:7 | 2019 596:4 616:5 | 3 633:1,5,6 635:11 |
| 101 596:6 | 15-day 634:19 | 769:15 802:11 | 673:13 684:10 | 671:5 676:9 |
| 106 699:15 747:11 | 635:1 855:8 | 828:9 829:19 | 769:9 781:3 815:4 | 678:11 682:4 |
| 10702 620:16,18 | 856:19 | 883:10 889:7 | 823:13 829:18,22 | 708:2 721:10 |
| 679:16,20 | 15-days 857:13,14 | 893:11,14,15,21 | 905:14 906:8,15 | 726:18 732:9 |
| 10746 618:9 911:18 | 150 699:8,22 | 894:9 900:14,19 | 908:7,11,15,20 | 743:9 767:12 |
| 914:6 | 857:22 858:12,19 | 929:15 971:6 | 909:3 955:6,10 | 776:14 781:4 |
| 11 906:9 927:22 | 859:5,11 890:6 | 2-car 883:7 | 958:1 959:1 | 786:17,18 787:11 |
| 977:3,3 | 961:21 993:21 | 2% 761:8,11 | 2020 673:6 685:8 | 788:16 790:8,11 |
| 11- 989:16 | 150'ish 857:21 | 2,500 686:7 | 686:17 | 790:13,13 828:11 |
| 11-days 992:6 | 15th 717:20 955:6 | 2.9 829:17 | 21 708:1 | 908:12,21 909:1,2 |
| 11:59 617:20 | 16 694:12 697:10 | 20 608:20 698:13 | 210 672:6 | 969:2 971:5,6 |
| 110 672:12 674:9 | 888:21 966:20 | 700:8 769:15 | 210,000 674:15 | 3-year 822:6 |
| 677:8 679:1 687:9 | 16-year 966:22 | 887:15 888:1 | 219,000 825:5,7 | 3% 627:19 821:8 |
| 720:4 747:11 | 967:3 | 20% 984:15 | 22,420 672:5 | 3,000 958:6 |
| 932:7 | 16% 769:6 | 20,000 674:18 | 220,000 691:8 | 3,200 681:16,18 |
| 110-112 677:2 | 16,000 714:4 | 200 603:5 682:1 | 225 613:15 | 985:1,2,6,8 |
| 110-car 672:15,18 | 17 601:8 726:13 | 699:9 765:10 | 23 596:4 633:2 | 3:53 932:3 |
| | | | I | I |

| | | | | Page 106. |
|--------------------------|--------------------------|----------------------------|----------------------------------|-----------|
| | l | l | 1 | |
| 30 623:21 697:7 | 4800- 675:18 | 6 | 8,200 695:22,22 | |
| 700:8 701:12 | 49 618:9 620:16 | 6 607:10 612:3 | 8.9 822:6 | |
| 769:15 789:11 | 679:15 684:15 | 677:10 714:17,21 | 80% 629:19 637:16 | |
| 854:8 966:19 | 4th 815:4 | 761:5,7 765:13 | 647:2,3 672:2,10 | |
| 30-day 851:20 | | 766:20 769:15 | 780:9 837:12 | |
| 30-days 853:6 | 5 | 790:10 801:11 | 899:21 900:5 | |
| 30,000 674:18 | 5 635:11,11,11,11 | 836:15 874:11 | 800 764:13 | |
| 300 890:17 957:6 | 635:16,16,17,17 | 909:18,22 910:12 | 800% 765:11,13 | |
| 300,000 603:8 | 635:21 636:8,9 | 6-0 846:19,20 | 82,000 700:1 | |
| 31 852:7 | 638:15,17 642:18 | 6,400 681:20 | 85 748:13,18 | |
| 33 764:14,16 | 686:6 697:17,20 | 682:17 689:1 | 770:20 | |
| 36% 962:3 | 700:8 720:22 | | 85-90 983:19 | |
| 360-degree 847:11 | 721:11 726:17 | 713:5,8,14 714:2 | 85% 896:2 | |
| 37 770:22 | 727:16,17,17 | 6.7 822:7 | 8th 688:17 | |
| 38 761:16 762:15 | 743:9 746:10,10 | 60 846:16 | 6th 666.17 | |
| 38% 768:3 787:22 | 746:10 748:15,16 | 600 764:11,13,13 | 9 | |
| 3PL 804:4,8 | 750:4,4,4,8,9 | 6004 673:12 678:15 | 9 706:15 709:13 | |
| J1 11 00T.T,0 | 760:10 769:15 | 6004C 956:13 | 789:1,1 874:12 | |
| 4 | 774:13 786:18 | 62% 626:21 958:22 | 954:18 | |
| 4 623:4 684:19 | 787:6 788:11,16 | 65% 959:3 | 934:18 9-day 989:21 | |
| | * | 65,000 614:20 | | |
| 689:16 726:18 | 801:12,13 830:5,9 | 650 695:13 | 9-days 992:6 | |
| 743:9 748:15 | 831:2 837:12 | 650-car 699:10 | 9% 825:6 | |
| 764:11,13 829:11 | 871:16 875:9,9 | 6603C 956:11 | 9,000 955:11 958:1 | |
| 882:2 898:19,21 | 896:7 916:2,4,8 | 6th 602:6 1003:8 | 9.3 673:16 674:16 | |
| 898:22 899:5,11 | 916:13,17 941:14 | | 679:6 709:3 710:9 | |
| 900:13 903:20 | 941:14,14,16,16 | 7 | 711:4 | |
| 906:9 939:6 953:7 | 941:16 942:7,7,7 | 7 623:20 697:17,19 | 9:30 596:5 | |
| 967:3 980:16 | 943:17,17,17 | 832:15 837:14 | 90 608:20 | |
| 1005:11 | 5-day-a-week | 846:9 940:15,16 | 90% 672:3 822:3 | |
| 4- 874:17 | 652:18 | 945:21 966:16 | 962:1 9000 838:4 839:3 | |
| 4,800 781:3 | 5% 821:9 | 7-day 882:12 | | |
| 4.6 699:7 700:2 | 5.7 829:20 | 7-rail 966:16 | 92,000 699:7 | |
| 725:1 | 5:28 1007:19 | 7% 959:10 | 94% 822:4 | |
| 40 700:8 831:11 | 50 699:6 764:16 | 7,000 966:13 | 95% 754:18 | |
| 40-50 933:13 | 765:8 770:21 | 70 693:18 781:1 | 97% 761:11 | |
| 400 682:21 695:14 | 859:22 | 983:21 | | |
| 430,000 691:9 | 50% 610:4 627:1 | 70's 968:17 984:1,1 | | |
| 740:5 | 721:8 761:17 | 707 626:21 784:2 | | |
| 45% 961:22 | 762:15 764:14,18 | 793:14 798:13 | | |
| 450-car 698:16 | 901:6 959:12 | 73% 756:19 761:16 | | |
| 450-cars 698:21 | 970:21,22 | 761:20 762:12 | | |
| 46 902:12 | 500 596:8 848:18 | 746 914:8,8 | | |
| 47 902:13 903:3,3 | 849:5 | 75 672:10 | | |
| 470,000 691:7 | 53% 764:16 | 75% 758:7 958:9 | | |
| 477 735:1,6 | 533 849:6 | 75,000 957:4 | | |
| 477,000 734:7 | 535 849:7 | 750,000 696:11 | | |
| 48 651:18 755:16 | 54 903:4 | 742:19 743:15 | | |
| 758:8 765:10 | 55% 958:20 | 7th 977:3 | | |
| 768:15 770:5,6 | 55,000 769:4 | | | |
| 800:17 801:10 | 550 699:22 | 8 | | |
| 802:2,4,5,7 898:3 | 56 676:22 677:1 | 8 627:1 642:18 | | |
| 48-hour 672:18 | 902:13 903:3 | 801:13 871:16 | | |
| 712:1 | 57 902:13 | 898:21 998:2,4 | | |
| 48-hours 673:1 | 57% 966:17 | 8-0 647:3 | | |
| 679:11 892:14 | 5th 678:13 | 8-hour 801:11 | | |
| 935:14 | | 8% 647:2 | | |
| | l | | l | |