# County of Lassen

# **ADMINISTRATIVE SERVICES**

# Memorandum

Date:

April 15, 2025

Board Date: April 22, 2025

To:

**Board of Supervisors** 

From:

Travis Stading, Technical Support Specialist III

Subject:

Fiber Contract for Animal Control

#### **BACKGROUND**

This contract will correct a connectivity problem that the County Animal Control has been struggling with for years. This connecting will provide a direct link back to county resources ensuring a reliable and stable connection to conduct county business through. Currently this site is connected through a wireless radio connection to mountain tops. This causes difficulty in connecting in inclement weather due to the mode of connection.

### **RECOMMENDATION**

Respectfully recommend that the Board approve the contract from Frontier Communications in the amount of \$14,200 per year for five years. For a total contract value not to exceed \$71,000.

### **FISCAL IMPACT**

This purchase will be paid out of the 104322 ISD Department.



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This is Schedule Number S-5550184645 to the Frontier Services Agreement dated 01/26/2017 ("FSA") by and between County of Lassen ("Customer") and Frontier Communications of America, Inc. on behalf of itself and its affiliates ("Frontier"). Customer orders and Frontier agrees to provide the Services and Equipment identified in the Schedule below.

472000 Johnstonville Rd

Primary Service Location:

Lassen County Animal Shelter Susanville, California

Schedule Date:

03/19/2025

Schedule Type/Purpose:

Order for New Services

Service Term:

60 Month(s)

		Services P	rovided			
Service Address A (To)					Charges	
	Service Address Z (From)	Service Description	Partnered	Quantity		Total MRC
1450 Sheriff Cady Ln,Susanville,California,96130	472000 Johnstonville Rd,Susanville,California,96 130	EVPL (Z Location)/100 Mbps/Platinum	No	1	\$0.00	\$650.00
472000 Johnstonville Rd,Susanville,California,96130		EVPL (A Location)/100 Mbps/Platinum	No	1	\$0.00	\$530.0
				Subtotal:	\$0	\$1180

Interstate / Intrastate Pricing Certification: "interstate in nature" means that the traffic transported by the Service originates in one state and terminates in another state or outside the United States, regardless of how it is routed. Designation may impact taxes and surcharges applicable to the Service. Customer certifies that its traffic over such Services will be: 10% or less interstate in nature (subject to federal jurisdiction/fees)

1. Service Description:

- a. <u>Ethernet Virtual Private Line (EVPL)</u> is a data transport configuration providing point-to-point or point-to-multipoint Ethernet connections between a pair of User Network Interfaces (UNIs). EVPL as a point-to-point configuration can be used to support delivery of eligible Frontier services to a designated Customer. Location (e.g. Frontier Connect—Cloud). EVPL is a carrier grade data networking service featuring Quality of Service (QoS) and the following progressively higher Class of Service (CoS) levels: Silver Service, Gold Service (Priority Data), or Platinum Service (Real Time). Frontier provides EVPL Silver Service on a standard best efforts' basis and subject to unspecified variable bit rate, latency, and packet loss with dependencies on current traffic load(s) within Frontier's Shared Infrastructure. EVPL will be designed, provisioned and implemented according to standard switched Ethernet components consisting of service multiplexed capability over UNIs and Ethernet Virtual Circuit (EVCs) through the use of Virtual Local Area Networks (VLANs) in order to secure traffic separation, privacy and security between Customer's Service Locations over Frontier's shared switch and backbone infrastructure. Ethernet Virtual Private Line will accept and carry untagged and or tagged traffic as described per IEEE 802.1Q networking standards specific to Frontier's Ordering Guidelines for this Service. Physical termination shall conform to applicable rules and regulations with respect to Minimum point of entry (MPOE) and demarcation point. If Customer requests extensions beyond the MPOE, such extension (s) shall be subject to Frontier's cabling service policies and Frontier's charges related thereto per separate Frontier Cabling Service and Fee Schedule.
- b. Ethernet Private Line (EPL) is a data transport configuration providing point-to-point switched Ethernet connections between a pair of User Network Interfaces (UNIs). EPL is a carrier grade data networking service featuring Quality of Service (QoS) with the following Class of Service (CoS) levels: Silver Service, Gold Service (Priority Data), or Platinum Service (Real Time). Frontier provides EPL Silver Service on a standard best effort basis and subject to unspecified variable bit rate, latency, and packet loss with dependencies on current traffic load(s) within Frontier's Shared Infrastructure. EPL will be designed, provisioned and implemented according to standard switched Ethernet components consisting of an all to one bundled, port based, non-service multiplexed Ethernet Virtual Circuit (EVC) and User Network Interface (UNI).
- c. <u>Partnered and/or Type II</u> is a delivery method where a Frontier third party Service provider is used to deliver the local access to Customer ("Partner Provider")...
- d. Overhead Ethernet technology, which is what E-Line circuits utilize, requires frames to have headers, a checksum, interframe gaps and preambles. Those components ensure that the data frames get sent to the right place and end up in the right order and each use a small amount of bytes, commonly known as "overhead." Overhead is the gap between the subscribed bandwidth speed and usable bandwidth speed. Additionally, actual data



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transmission or throughput may be lower than the connection speed due to server or switching speeds, protocol overheads, and other factors which cannot be controlled by Frontier.

- 2. Pre-installation cancellation fees, FOC Notice, Partnered Access Costs and Special Construction.
- a. Pre-installation cancellation fees. Cancellation relating to newly identified costs and expenses: If Customer cancels any Service or Equipment prior to delivery of any Equipment or installation of the Service or Equipment due to Customer's determination that Customer is not able or willing to incur the costs and expenses of Frontier identified Customer required pre-installation requirements (other than previously identified NRC or CIAC set forth in this Schedule), then notwithstanding any provision of the FSA, Customer shall not be required to pay the FSA Section 4(a) cancellation charge.
- b. Cancellation after FOC Notice. Frontier will provide Customer with notice (the "FOC Notice") of the project completion date (the "FOC Date") as soon as possible in light of the requested services and customer's location. If Customer cancels more than ten (10) business days after the issuance of the FOC Notice, then, notwithstanding any provision of the FSA, Customer shall pay a processing fee of Seven Hundred Fifty Dollars (\$750.00) and the total costs and expenditures of Frontier in connection with establishing the Service and / or providing the Equipment prior to Frontier's receipt of notice of cancellation including but not limited to any construction and engineering costs and Equipment restocking fees
- c. Partnered Access costs. Notwithstanding any provision to the contrary in the FSA or this Service Schedule, if Customer cancels any Service or Equipment prior to delivery of any Equipment or installation of the Service or Equipment for any reason, then Customer shall reimburse Frontier for any costs and/or expenditures related to Partnered Access for which Frontier is obligated in connection with establishing the Service via Partnered Access including but not limited to any Partnered Access fees, charges, costs or early termination fees charged to Frontier.

#### d. Special Construction.

- i. General. All Services are subject to availability and Frontier Network limitations. The rates identified in this Schedule are estimated based on standard installation costs and Services may not be available at all Service Locations at the rates identified. If Frontier determines, in its reasonable discretion, that the costs of provisioning Service to any Service Location are materially higher than normal, Frontier will notify Customer of the additional costs associated with provision of the Services and request Customer's acceptance of such costs as a condition to proceeding ("Special Construction").
- ii. Frontier assistance with Special Construction. Frontier may determine, on a project-by-project basis, whether and the extent to which, if any, Frontier may provide additional assistance with respect to Special Construction. If Frontier determines in its sole discretion that Frontier will provide financial assistance, Frontier will notify Customer of such assistance and related conditions or requirements with respect to the Special Construction project.
- iii. Customer Special Construction costs. Upon notification that Special Construction costs are required; Customer will have ten (10) business days to notify Frontier of Customer's acceptance of such costs. If the Customer does not agree to the Special Construction costs within ten (10) business days, the Customer shall be deemed to have cancelled the Service Schedule and notwithstanding any provision of the FSA, Customer shall not be required to pay the FSA Section 4(a) cancellation charge. If the Customer agrees to the Special Construction costs, Frontier and Customer will execute a replacement Schedule.
- 3. Obligations of Customer. Customer shall properly use any equipment or software, and all pass codes, personal identification numbers ("PINs") or other access capability obtained from Frontier or an affiliate or vendor of Frontier and shall surrender the equipment and software in good working order to Frontier at a place specified by Frontier and terminate all use of any access capability upon termination or expiration of this Schedule. Customer shall be responsible for all uses of PINs, pass codes or other access capability during or after the term hereof. Customer agrees that the Equipment and Service provided by Frontier hereunder are subject to the terms, conditions and restrictions contained in any applicable agreements (including software or other intellectual property license agreements) between Frontier and Frontier's vendors. Customer is responsible to ensure appropriate processes and protocols are in place for rate shaping to the amount of throughput ordered. Customer acknowledges that failure to comply with this responsibility may negatively impact Service performance, and the ability to collect service credits as defined in Exhibit 1.
- 4. After Hours/Holiday Labor Hours. If Customer desires coordinated turn up services ("After Hours") during non-business hours, defined below, then the After Hours services shall be provided at the rate of \$175.00 per hour. Non-business hours include: (1) weeknights between the hours of 5:00 p.m. and 7:59 a.m. local time; (2) weekends, including Saturday and/or Sunday and (3) the Frontier designated holidays (New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day).

Such After Hours services may be subject to change, based upon Frontier's reasonable determination of increases in actual costs to provide such After Hours services, determined in accordance with generally accepted commercial accounting practices, and consistent with After Hours service charges for projects comparable to the project outlined in this Schedule.

5. Internet Acceptable Use Policy and Security. Customer shall comply, and shall cause all Service users to comply, with Frontier's Acceptable Use Policy ("AUP"), which Frontier may modify at any time. The current AUP is available for review at the following address, subject to change: <a href="http://www.frontier.com/policies/commercial\_aup/">http://www.frontier.com/policies/commercial\_aup/</a>. Customer is responsible for maintaining awareness of the current AUP and adhering to the AUP as it



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may be amended from time to time. Failure to comply with the AUP is grounds for immediate suspension or termination of Frontier Internet Service, notwithstanding any notice requirement provisions of the FSA. Customer is responsible for the security of its own networks, equipment, hardware, software and software applications. Abuse that occurs as a result of Customer's systems or account being compromised or as a result of activities of third parties permitted by Customer may result in suspension of Customer's accounts or Internet access by Frontier. Customer will defend and indemnify Frontier and its affiliates with respect to claims arising from Customer's or third parties' usage of Frontier Internet access through Customer's hardware or software.

- 6. Producer Price Index Adjustment. Unless otherwise prohibited by tariff, regulation or applicable law, Frontier shall, once per year in July, increase the above MRC for each service by the annual increase in the Producer Price Index for Total Final Demand as published by the U.S. Bureau of Labor Statistics ("PPI-FD"). The adjustment will be based on the percentage increase, if any, in PPI-FD for the most recent yearly period ending April 30th compared to the prior 12 month period ending April 30th and shall not exceed 9.5% in any year. The increase, if any, will be reflected as either an increase in the base MRC or as a separately stated item and occur for the first time in July of the calendar year after service installation.
- 7. Equipment or Software Not Provided by Frontier. Upon notice from Frontier that the facilities, services, equipment or software not provided or approved by Frontier is causing or is likely to cause hazard, interference or service obstruction, Customer shall immediately eliminate the likelihood of hazard, interference or service obstruction. If Customer requests Frontier to troubleshoot difficulties caused by the equipment or software not provided by Frontier, and Frontier agrees to do so, Customer shall pay Frontier at its then current rates.
- 8. Service Level Agreement. The E-Line Service Level Agreement for the described Ethernet Services is attached hereto and incorporated herein as Exhibit 1.

This Schedule is not effective and pricing, dates and terms are subject to change until signed by both parties, and may not be effective until approved by the FCC and/or applicable State Commission. This Schedule and any of the provisions hereof may not be modified in any manner except by mutual written agreement. The above rates do not include any taxes, fees or surcharges applicable to the Service. This Schedule, and all terms and conditions of the FSA, is the entire agreement between the parties with respect to the Services described herein, and supersedes any and all prior or contemporaneous agreements, representations, statements, negotiations, and undertakings written or oral with respect to the subject matter hereof.

Signature: Printed Name: Title: Signature: Printed Name: Title: Date: Signature: Printed Printed Name: Title: Date:	

Approved as to Form

sen County Counsel



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#### **EXHIBIT 1**

#### E-LINE SERVICE LEVEL AGREEMENT

This E-LINE Service Level Agreement ("SLA") applies to Ethernet Services ordered pursuant to an E-LINE Ethernet Virtual Private Line (EVPL), Ethernet Private Line (EPL) Schedule executed by and between County of Lassen ("Customer") and Frontier Communications of America, Inc. ("Frontier"). The terms of this SLA apply exclusively to the Ethernet network elements directly within Frontier's management responsibility and control ("E-LINE Service").

This E-LINE Service Level Agreement is compliant with the standards established within MEF 23.1. "City" is defined as a regional metropolitan market that is larger than city boundaries and represents the local Metro Ethernet Network (MEN), :State" is defined as any connectivity within the individual USA State boundary. "Inter-State" is defined as any network connectivity crossing any USA State boundary. The terms of this SLA apply exclusively to the E-Line elements directly within Frontier's management responsibility and control ("E-Line Service"), including Partnered delivered service.

#### 1. Operational Objectives

A. Availability: Circuit Availability is the ability to exchange data packets with the nearest Frontier Point of Presence or E-LINE Customer egress port (Z location) via the ingress port (A location). "Service Outage" occurs when packet transport is unavailable or when the output signal is outside the limits of this service guarantee. Availability is measured by the number of minutes during a calendar month that the E-LINE Service is operational, divided by the total minutes in that calendar month. Calculation is based on the stop-clock method beginning at the date and time of the Customer-initiated trouble ticket and ends when

	Table 1A: E-LINE				
Circuit Avai	lability	MRC Service Credit			
Availability	99.99%	Below 99.99% Service Credit 30% MRC			

Frontier restores SLA-compliant circuit operation. Frontier's E-LINE Service Availability commitment and applicable Service credit are outlined in **Table 1A**, subject to Sections 3 and 4 below.

B. Mean Time to Repair (MTTR): MTTR is a monthly calculation of the average duration of time between Trouble Ticket initiation (in accordance with Section 2B) and Frontier's reinstatement of the E-LINE Service to meet the Availability performance objective. The MTTR objectives, and credits applicable to a failure to meet such objectives, are outlined in Table 1B, subject to Sections 3 and 4 below.

	Table 1B:	E-LINE
Mean Time To Repair		MRC Service Credit
MTTR		25% MRC above 4 hrs
	4 Hours	50% MRC above 6 hrs

#### 2. Performance Objectives

- A. Packet Delivery: The Frame Loss Ratio (FLR) is a round trip measurement between ingress and egress ports (NIDs) at the Customer's A and Z locations of packet delivery efficiency. FLR is the ratio of packets lost, round trip, vs. packets sent. Packet delivery statistics are collected for one calendar month. Credits will be based on Frontier's verification of packet delivery performance between NIDs at Customer's Service Location. The packet delivery SLA applies to CIR-compliant packets on Ethernet LAN / WAN circuits only. This packet delivery guarantee does not apply to Dedicated Internet services. Frontier offers three FLR Quality of Service (QoS) levels for Ethernet Data Service. The applicable SLA is based on the QoS level, as outlined in Table 1C. Ethernet Gold and Platinum are premium level services designed to support commercial customers' mission-critical and real time applications.
  - Silver QoS service is Frontier's basic business class data service with improved performance across all standard performance
    parameters. Ethernet Silver SLA, termed Standard Data (SD) Service, is Frontier's upgraded replacement of Best Effort Ethernet
    designed specifically for the commercial customer.
  - Gold QoS service is a premium business data service featuring enhanced performance parameters with packet forwarding priority set to Priority Data.
  - Platinum QoS service carries Frontier's highest QoS performance parameters and includes voice grade packet forwarding priority set to Real Time.

If packet delivery performance falls below the applicable packet delivery percentage, Customer will be entitled to a Service credit as outlined in **Table 1C**, subject to Sections 3 and 4 below.



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Table 1C: E-LINE Frame Loss Ratio (FLR)				
Packet Loss QoS Level	Frame Loss Ratio (FLR) CITY	Frame Loss Ratio (FLR) STATE	Frame Loss Ratio (FLR) Inter-STATE	MRC Service Credit
Silver [Standard Data Service]	0.10%	0.10%	0.10%	10%
Gold [Priority Data Service]	0.01%	0.01%	0.025%	15%
Platinum [Real Time Data Service]	0.01%	0.01%	0.025%	20%

- B. Latency: Latency, Frame Transfer Delay (FTD), is the maximum packet delivery time measured round-trip between Customer's A and Z locations at the Committed Information Rate (CIR). Latency is measured across E-Line Service paths between ingress and egress NIDs. Measurements are taken at one-hour intervals over a one-month period. Credits are based on round-trip latency of 95<sup>th</sup> percentile packet. Customer must meet the following criteria to qualify for Service credits on the E-LINE Latency SLA outlined in Table 1D:
  - Access loops at Customer locations A and Z may be fiber or copper connectivity from the Serving Wire Center to the NIDs at each
    premise to qualify for the circuit SLA.
  - Each SLA guarantee is associated with ONLY one QoS Level. Frontier will honor the Service credit associated with the QoS level ordered for E-Line Services. Customer will be entitled to Service credits if the Service fails to meet applicable Performance Objective as outlined in Table 1D subject to Sections 3 and 4 below.

Table 1D: E-LINE Frame Transfer Delay (FTD):				
Latency QoS Level	Round Trip Delay CITY	Round Trip Delay STATE	Round Trip Delay Inter-STATE	MRC Service Credit
Silver [Standard Data Service]	≤ 56 ms	≤ 100 ms	≤ 250 ms	10%
Gold [Priority Data Service]	≤ 26 ms	≤ 60 ms	≤ 160 ms	15%
Platinum [Real Time Data Service]	≤ 14 ms	≤ 36 ms	≤ 140 ms	20%

- C. **Jitter**: Packet Jitter, Frame Delay Variance (FDV), is the difference in end-to-end one-way delay between selected packets in a data stream with any lost packets being ignored. Frontier guarantees average FDV (inter-packet differential) performance on E-LINE Service transmissions will meet performance parameters outlined in the table below. Credits are based on the monthly average Frame Delay Variance. Customer must meet the following criteria to qualify for Service credits on the E-LINE Jitter SLA:
  - Access loops at Customer Service Locations A and Z may be fiber or copper connectivity from the Serving Wire Center to the NIDs at each Service Location to qualify for Fiber Loop FDV SLA.
  - Each SLA guarantee is associated with ONLY one QoS Level. Frontier will honor the Service credit associated with the QoS level ordered for E-LINE Services, as outlined in the applicable Ethernet Service Schedule. Customer will be entitled to the credit as outlined in **Table 1E** if E-LINE Services fail to meet applicable service level objectives, subject to Sections 3 and 4 below.

Table 1E: E-LINE Frame Delay Variance (FDV):				
Jitter QoS Level	Average Jitter Per Site CITY	Average Jitter Per Site STATE	Average Jitter Per Site Inter-STATE	MRC Service Credit
Silver [Standard Data Service]	n/s	n/s	n/s	n/a
Gold [Priority Data Service]	≤ 8 ms	≤ 40 ms	≤ 40 ms	15%
Platinum [Real Time Data Service]	≤ 3 ms	≤ 8 ms	≤ 10 ms	20%

#### 3. Service Outage Reporting Procedure.

- A. Frontier will maintain a point-of-contact for Customer to report a Service Outage, twenty-four (24) hours a day, seven (7) days a week.
- B. When E-LINE Service is suffering from a Service Outage, Customer must contact Frontier's commercial customer support center (also known as the "NOC") at 1-(888) 637-9620 to identify the Service Outage and initiate an investigation of the cause ("Trouble Ticket").



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Responsibility for Trouble Ticket initiation rests solely with Customer. Once the Trouble Ticket has been opened, the appropriate Frontier departments will initiate diagnostic testing and isolation activities to determine the source. In the event of a Service Outage, Frontier and Customer will cooperate to restore the Service. If the cause of a Service Outage is a failure of Frontier's or Partnered equipment or facilities, Frontier will be responsible for the repair. If the degradation is caused by a factor outside the control of Frontier, Frontier will cooperate with Customer to conduct testing and repair activities at Customer's cost and at Frontier's standard technician rates.

- C. A Service Outage begins when a Trouble Ticket is initiated and ends when the affected E-LINE Service is Available; provided that if the Customer reports a problem with a Service but declines to allow Frontier access for testing and repair, the Service will be considered to be impaired, but will not be deemed a Service Outage subject to these terms.
- D. If Frontier dispatches a field technician to perform diagnostic troubleshooting and the failure was caused by the acts or omissions of Customer or its employees, affiliates, contractors, agents, representatives or invitees; then Customer will pay Frontier for all related time and material costs at Frontier's standard rates.

4. Credit Request and Eligibility.

- A. In the event of a Service Outage, Customer may be entitled to a credit against the applicable E-Line Service MRC if (i) Customer initiated a Trouble Ticket; (ii) the Service Outage was caused by a failure of Frontier's equipment, facilities or personnel; (iii) the Service Outage warrants a credit based on the terms of Section 1; and (iv) Customer requests the credit within thirty (30) days of last day of the calendar month in which the Service Outage occurred.
- B. Credits do not apply to Service Outages caused, in whole or in part, by one or more of the following: (i) the acts or omissions of Customer or its employees, affiliates, contractors, agents, representatives or invitees; (ii) failure of power; (iii) the failure or malfunction of non-Frontier or Partnered equipment or systems; (iv) circumstances or causes beyond the control of Frontier or its representatives; (v) a Planned Service Interruption; (vi) Emergency Maintenance or (vii) interruptions resulting form Force Majeure events as defined in Customer's FSA. In addition, Customer will not be issued credits for a Service Outage during any period in which Frontier is not provided with access to the Service location or any Frontier network element, or while Customer is testing and/or verifying that the problem has been resolved. "Planned Service Interruption" means any Service Outage caused by scheduled maintenance, planned enhancements or upgrades to the Frontier or Partnered network; provided that Frontier will endeavor to provide at least five (5) business days' notice prior to any such activity if it will impact the Services provided to Customer. "Emergency Maintenance" means maintenance which, if not performed promptly, could result in a serious degradation or loss of service over the Frontier network.
- C. Not withstanding anything to the contrary, all credit allowances will be limited to maximum of 50% of the MRC for the impacted E-LINE Service, per month. For cascading failures, only the primary or causal failure is used in determining Service Outage and associated consequences. Only one service level component metric can be used for determining Service credits. In the event of the failure of the Service to meet multiple metrics in a one-month period, the highest Service credit will apply, not the sum of multiple Service credits.
- D. This SLA guarantees service performance of Frontier's Ethernet data services only. This SLA does not cover TDM services [DS1, NxDS1, or DS3 services] or other voice or data services provided by Frontier. This SLA does not apply to services provided over third party non-partner facilities, through a carrier hotel, or over Frontier facilities which terminate through a meet point circuit with a third party non-partner carrier.
- E. The final determination of whether Frontier has or has not met SLA metrics will be based on Frontier's methodology for assessment of compliant performance. Service Outage credits are calculated based on the duration of the Service Outage, regardless of whether such Service Outage is the result of failure of the Service to meet one or more performance metric.
- F. Credit allowances, if any, will be deducted from the charges payable by Customer hereunder and will be expressly indicated on a subsequent bill to Customer. Credits provided pursuant to this SLA shall be Customer's sole remedy with regard to Service Outages.
- 5. Chronic Outage: An individual E-LINE Service qualifies for "Chronic Outage" status if such service fails to meet the Availability objectives, and one or more of the following: (a) a single Trouble Ticket extends for longer than 24 hours, (b) more than 3 Trouble Tickets extend for more than 8 hours, during a rolling 6 month period, or (c) 15 separate Trouble Tickets of any duration within a calendar month. If an E-LINE Service reaches Chronic Outage status, then Customer may terminate the affected E-LINE Service without penalty; provided that Customer must exercise such right within ten (10) days of the E-LINE Service reaching Chronic Outage status and provide a minimum of 15 days prior written notice to Frontier of the intent to exercise such termination right.