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**INTERCONTINENTAL POTASH SIS  
LOAD INTERCONNECTION STUDY REPORT  
STUDY # 110801**

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Southwestern Public Service Company (SPS),  
An Xcel Energy Company

October 26, 2011

## Executive Summary

SPS Retail Accounts in June 2011 requested a study for adding new load at a new delivery point to be located west of Jal, NM onto the Southwestern Public Service Company (SPS) 115 kV transmission network. The anticipated initial load as per the customer request is 80 MW with anticipated in service date of January 2015. The vicinity map is shown in [Appendix A](#).

The purpose of this study is to determine the impact of the new load to the SPS local transmission system in New Mexico and the required upgrades to mitigate the impacts. This is the key area of interest since the new load is situated in this area, which would be impacted most. However, southern portion of the SPS Texas transmission system is also monitored for any new impacts.

Power flow analysis was performed to determine impacts and mitigations with the introduction of the new load to the local SPS transmission grid in the area of study. Based on the availability of power flow models and the requested in service date the new load request was studied for 2017 and 2022 summer and winter peak seasons. A complete AC contingency analysis is run for the study area to determine the impacts of the new load to the SPS transmission system and the results are tabulated in [Appendix B](#).

The load addition due to Intercontinental Potash mine lead to system intact and N-1 contingency violations in the study area. So the load cannot be served until the recommended system upgrades are made. Refer to [Table 2](#) for list of recommended upgrades needed in delivering the requested amount of load.

SPS at their discretion reserves the right to modify or change the long term recommended transmission upgrades based on requested load projects, and generation interconnections; or guidance from the Southwest Power Pool (SPP). The long term recommended upgrades are the best solution at this time based on current data available and are subject to SPP's Integrated Transmission Process (ITP) review. These upgrades could be changed in order to meet present and long-term goals; however, changes will be accomplished provided the new upgrades meet the same level of safety and system reliability.

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## 1. Introduction

SPS Retail Accounts in June 2011 requested a study for adding new load at a new delivery point to be located west of Jal, NM onto the Southwestern Public Service Company (SPS) 115 kV transmission network. The anticipated initial load as per the customer request is 80 MW with anticipated in service date of January 2015.

The primary objective of this study is to determine if the new load addition will adversely impact transmission loadings or system voltages during the system intact or with N-1 contingency conditions. This study also proposes any new upgrades that may be required in order to serve the new load without any violations. In addition, this study gives the estimated costs, which are associated with the interconnection of the proposed new load transmission facilities to the SPS transmission system.

## 2. Study Methodology

This study was performed using the Power Technologies, Inc. (“PTI”) Power System Simulator for Engineering (PSS/E) program and contains a steady-state analysis using AC Contingency Checking (ACCC) with a Fixed Slope Decoupled Newton–Raphson (FDNS) solution. The study was conducted to ensure that current NERC Planning Standards<sup>1</sup> are fulfilled. As an example, for system intact conditions, bus voltages must be maintained between 0.95 – 1.05 per unit of their nominal value and thermal system intact conditions must not exceed their designated A-rating. For contingencies, the voltages are allowed to deviate between 0.90 – 1.05 per-unit of their nominal value. Additionally, the loading on transmission system equipment cannot exceed 100% of the emergency B-rating.

The study uses a comparative study approach to determine system impacts caused by this proposed new load for the power flow models considered. The base case models include the power flow cases with transmission service requests granted by the Southwest Power Pool (“SPP”) for the respective year/season studied, without the new load. All additional “test” power flow cases include the proposed load additions for the respective peak seasons. The violations from each contingency in the test cases were compared to the respective violation, under the same contingency, of the base case and the impact was thus determined.

## 3. Study Assumptions<sup>2</sup>

The 2017 and 2022 summer and winter peak power flow models were used for this study and represent the 2011 Southwest Power Pool (SPP) MDWG reduced Model Series and includes all MOD1 Quarter 2, B2 updates. No new speculative load or loads without signed agreements were added to the models or any additional load requests not already

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<sup>1</sup> Requirement for TPL-001-R1 and TPL-002, R1

<sup>2</sup> Requirement for FAC 002-R1.5

present in these models. A minimum of 98.0 % power factor was used in the test case models in adherence to Xcel Energy document Interconnection Guidelines for Transmission Interconnected Customer Loads Version 3.0 dated August 23, 2010. [http://www.xcelenergy.com/staticfiles/xe/Regulatory/Transmission/XELTransmissionInterconnectedCustLoads\[1\].pdf](http://www.xcelenergy.com/staticfiles/xe/Regulatory/Transmission/XELTransmissionInterconnectedCustLoads[1].pdf). The study result will change if the load's power factor is not corrected to operate at 98% or better.

A 14.4 MVAr capacitor bank at Drinkard and second 230/115 kV transformer at Eddy county were modeled as part of base cases with ISD's as recommended in their previous studies (Red Bluff and Central Valley load studies). The load request from previously studied Red Bluff study<sup>3</sup> was also included as part of base case. The following loads from recent studies and also the recommended upgrades in order to serve these loads were also modeled as part of base cases since these are located in the same study area and could affect the study results.

**Agave Red Hills** – This request is for a new delivery point with anticipated initial load of 11.26 MW. The geographical location for this new delivery point will be 1500' west of Ochoa Sub. The requested ISD is January 1, 2012.

**Intrepid West** – This request is for a new delivery point with anticipated initial load of 12 MW of which 5 MW will be transferred from an existing 69 kV sub owned by the customer and served out of Potash junction. The geographical location of the new delivery point will be at existing Intrepid's west surface facility. The requested ISD is March 2012.

**Frontier Field Services** – This request is for adding an additional load of 18 MW at the existing delivery point Maljamar #2. The requested ISD is October 2012.

## 4. Results

The results presented in this study refer to SPS transmission system in New Mexico and southern portion of Texas. Also, the results presented in this study are only valid for the power flow cases noted in section 3. The results are not for all the variations that could exist in load, generation patterns and network transmission service that could be granted by SPP.

The power flow models simulated with new load triggered new violations during system intact and single contingency conditions. The violations are shown in [Appendix B](#).

### 4.1. System Intact Conditions

The total load modeled at the requested delivery points for different power flow models are shown in Table 1.

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<sup>3</sup> 17.5 MW of load is modeled at Wood Draw with ISD of 2012 Winter.

Table 1 – Total load modeled

Delivery point	Total Load		Power flow models
	MW	MVar	
Intercontinental Potash	80	16	17S, 17W, 22S, 22W

The power flow models simulated with new load triggered new system intact violations. Refer to [Appendix B](#) for system intact violations

## 4.2. Thermal/Voltage Single Contingency Analysis

Using the power flow models noted above, ACCC single-element contingency analysis showed an indication that new thermal or voltage violations would be triggered on the transmission system as a result of this new load addition. Refer to [Appendix B](#) for system N-1 contingency violations.

## 4.3. TPL-003 COMPLIANCE

To comply with the category C contingencies of TPL-003 reliability standards the following analysis was performed. This analysis is only limited to that area of SPS system where system modifications are recommended as part of this study. The analysis on rest of the system will be done as part of regular TPL-003 compliance study.

Subcategory C1&C2 – SLG fault with normal clearing:

*Bus Section:* Since the new bus configurations at Potash junction 230kV is going to be a 4 breaker ring bus and the 115 kV bus configuration at the new potash mine substation is going to be a 3 breaker ring bus, any fault on these buses would be limited to only a section of a bus for normal breaker operation and only one transmission line will be taken out of service. This scenario is similar to N-1 scenario and is covered by ACCC analysis under [Section 4.2](#) of this study report. A bus fault on 230 kV bus at Potash mine would take the 230 kV line from Potash junction to Potash mine and the 230/115 kV transformer out of service. The system is within acceptable limits for this contingency. The other bus section faults are not considered in this study and would be part of regular TPL-003 compliance studies.

*Breaker (failure or internal fault)* – For a breaker failure condition at the Potash mine 115 kV bus, two sections of the bus will be taken out of service which would result in loss of two bulk electric system elements. A complete load shedding or no load shedding of potash mine load may occur depending on final connection arrangement of the transmission lines at this bus and the location of breaker failure. Refer to Appendix A, figure 4 for the bus configuration at the new 230/115 kV substation.

*Subcategory C3 – SLG or 3φ Fault, with Normal Clearing, Manual System Adjustments, followed by another SLG or 3φ fault, with Normal Clearing:*

This scenario is a N-1-1 scenario where for the loss of 230 kV line from Potash junction to Potash mine followed by manual system adjustments and loss of 115 kV line from Red Bluff switching station to Potash mine would lead to low voltage and thermal overloads in the study area. Load curtailment in the study area needs to be performed in order to bring the system within acceptable limits.

*Subcategory C4 - Bi polar (dc) line fault with normal clearing*

Not applicable to this study

*Subcategory C5 - Any two circuits of a multiple circuit tower line – SPS would propose and analyze during the transmission routing procedure that the new 230 kV line constructed from Potash junction to the new Potash mine sub would not be on common towers or less than 1 mile of multiple circuit towers to avoid this issue..*

*Subcategory C6, C7, C8 & C9 - SLG fault with delayed clearing (stuck breaker):*

SPS proposes to review its protection schemes for dealing with SLG and protection system component failures to minimize fault duration. Protective relay settings have not been made and that data is not available until much closer to construction.

SPS proposes to consider future substation designs other than the main-and-transfer concept and will consider retrofitting some existing ones. The objective would be to limit exposure to multiple element outages caused by a single event. Substations to be retrofitted would be selected based on criticality in operating and maintaining the reliability of the system. New substations being planned and constructed are mostly ring bus and expandable to a breaker-and-a-half design.

## 5. Discussion of Alternatives

Several alternatives were considered in this study to mitigate the violations during system intact and contingency conditions. The best alternative recommended in this study was based on its capability to address both reliability and cost effectiveness. Table 2 lists and summarizes the recommended upgrades.

Table 2 – Recommended upgrades for mitigating the violations

Load Request	Recommended upgrades
Intercontinental Potash	<ol style="list-style-type: none"><li>1. Build a 230/115 kV substation near to the potash mine load center and run T41 in and out of this new substation. The 115 kV bus would be of ring bus configuration.</li><li>2. Build approx 45 miles of new 230 kV, 795 ACSR, line from Potash junction to the new substation and 1 mile of 115 kV 795 ACSR line from the new substation to the customer load center.</li><li>3. Provide a new breaker terminal at Potash junction and modify the existing 230 kV straight bus configuration to a ring bus expandable to a breaker and half configuration.</li><li>4. Load side revenue metering needs to be installed at the customer station.</li></ol>

## 6. Fault or Short Circuit Study<sup>4</sup>

The approximate available fault currents and fault impedance values at the new substation are shown in Table 3 below.

Table 3 –Available Short Circuit Values

FAULT VALUES ON THE 230KV BUS AT THE NEW SUB						
FAULT TYPE	FAULT CURRENT (Amps)			FAULT IMPEDANCE ( $\Omega$ )		
	+ seq	- seq	0 seq / 3Io	+ seq	- seq	0 seq / 3Io
LG	2050	2050	6150	2.91393+j21.9590	2.915+j21.8702	2.694+j20.3784
3-PHASE	5995	0	0	2.91393+j21.9590	2.915+j21.8702	2.694+j20.3784
FAULT VALUES ON THE 115KV BUS AT THE NEW SUB						
FAULT TYPE	FAULT CURRENT (Amps)			FAULT IMPEDANCE ( $\Omega$ )		
	+ seq	- seq	0 seq / 3Io	+ seq	- seq	0 seq / 3Io
LG	1336	1336	4008	1.296+j9.2366	1.296+j9.2164	5.265+j30.6142
3-PHASE	7118	0	0	1.296+j9.2366	1.296+j9.2164	5.265+j30.6142

Should these projects mature to the point that the actual substation layout scheme and the equipment are specified, SPS System Protection Engineering will require actual data about the proposed customer facility. The protection scheme coordination will then be verified by SPS as is required by FAC-002.

## 7. Estimated Costs

The estimated cost for the required upgrades is shown below in Table 4. These cost estimates are based on standard designs and are subject to change based on final selection of route and any additional unforeseen requirements.

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<sup>4</sup> Use as required by NERC Standard FAC-002-0 R1.4 "Evidence that the assessment included steady-state, short-circuit, and dynamics studies as necessary to evaluate system performance in accordance with Reliability Standard TPL-001-0."

Load Request	Recommended upgrades	Estimated Costs
INTERCONTINENTAL POTASH	1. Install a new 230 kV line terminal at Potash junction and reconfigure bus to a Ring bus	\$3,250,055
	2. Build a 230/115 kV substation, West Jal, with a 230 kV terminal to Potash Junction, 230/115kV 250 MVA Autotransformer, 115kV terminals to Potash Junction, Ochoa and to Customer sub.	\$6,850,320
	3. Build 45 miles of 230kV from Potash Junction to a new 230kV sub, West Jal, to be located 9 miles west of Ochoa sub	\$16,482,513
	4. Build 1 mile of 115kV with 795 ACSR conductor to the new customer sub	\$733,232
	5. ROW for 230kV transmission line from Potash Junction to the new 230 kV substation West Jal.	\$807,388
<b><i>Sub Total</i></b>		<b><i>\$28,123,508</i></b>

Table 4 –Cost estimates

The cost estimate for the 115 kV bus at the new substation is currently estimated at a single feed to the customer. When the customer has definitive plans for their required electrical service, SPS will review them and may make changes to the 115 kV bus design to accommodate their requirements.

## 8. Construction Schedule

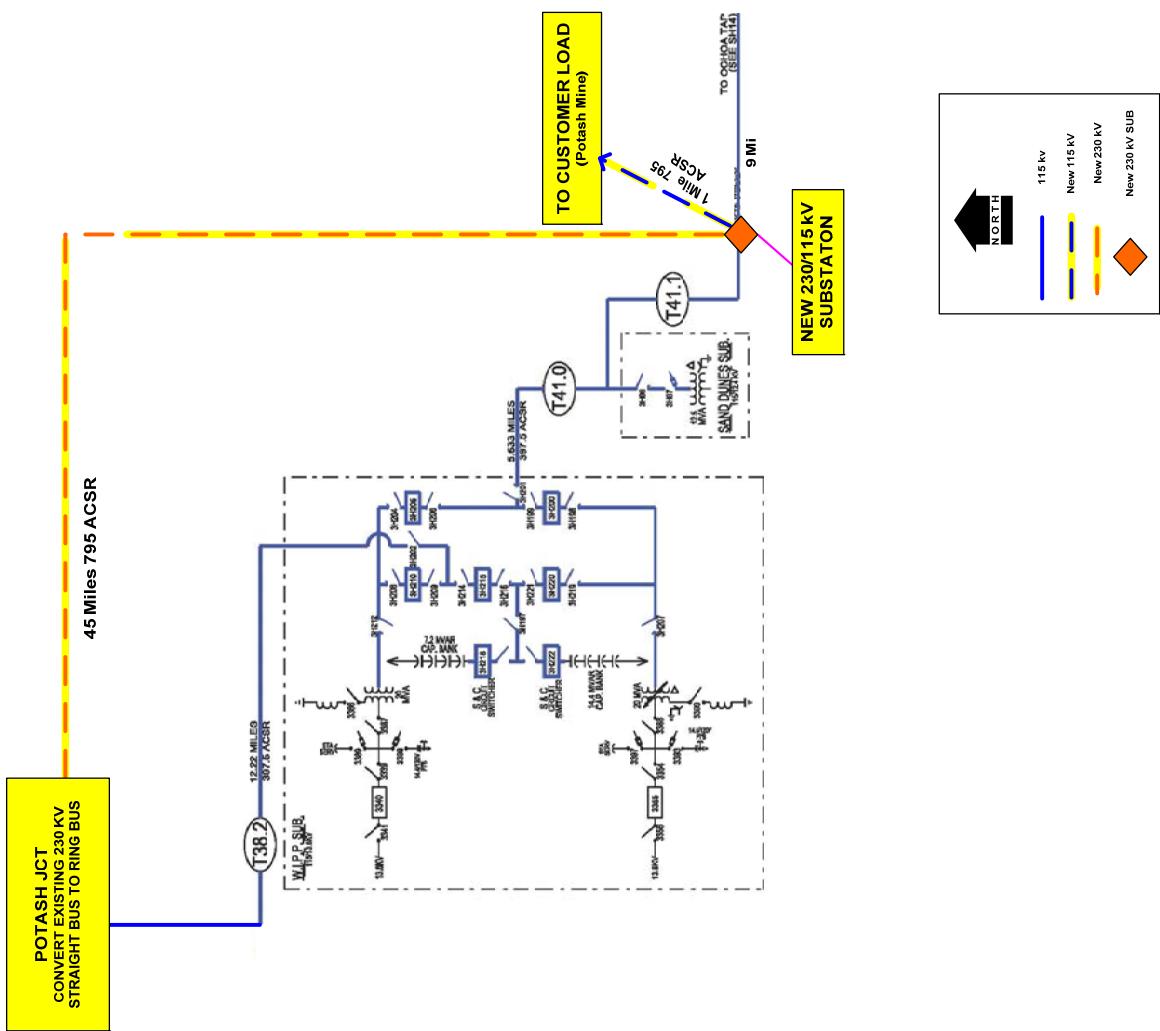
The construction schedule for the required upgrades is shown below. The scheduled time frames for the required upgrades are applicable only after all required agreements are signed and internal approvals are granted.

These transmission system upgrades, however, at the discretion of SPS, may be changed to develop an improved transmission system plan that encompasses other projects while maintaining present and long-term goals, yet meeting equivalent reliability requirements and safety measures.

The schedules indicated are for project duration purposes only and other factors associated with clearances, equipment delays and work schedules could cause additional delays.

ID	Task Name	Duration	Start Date	End Date
1	<b>Intercontinental Projects</b>	900 days	Nov 2014	Sep 2015
2	Transmission Line routing	22 weeks	Nov 2014	Dec 2014
3	Prepare and file CCN	28 weeks	Dec 2014	Jan 2015
4	CCN approval process	8 months	Jan 2015	Feb 2015
5	Substation Engineering	48 weeks	Feb 2015	Mar 2015
6	Transmission Line Engineering	36 weeks	Mar 2015	Apr 2015
7	Substation Material procurement	52 weeks	Apr 2015	May 2015
8	Transmission Line material procurement	32 weeks	May 2015	Jun 2015
9	Site & Train Construction	7 months	Jun 2015	Jul 2015
10	Commissioning	2 weeks	Jul 2015	Aug 2015

## Appendix A



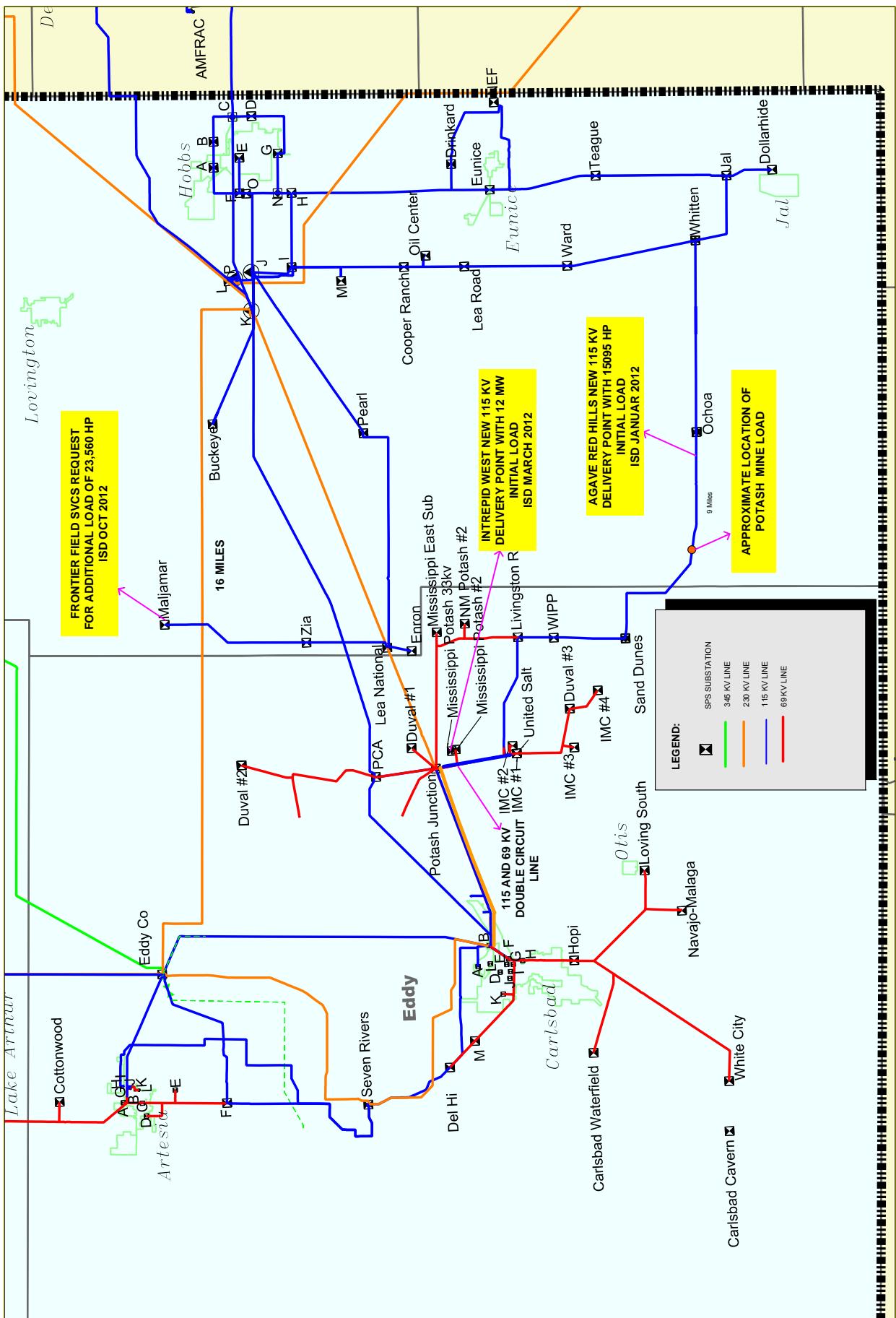
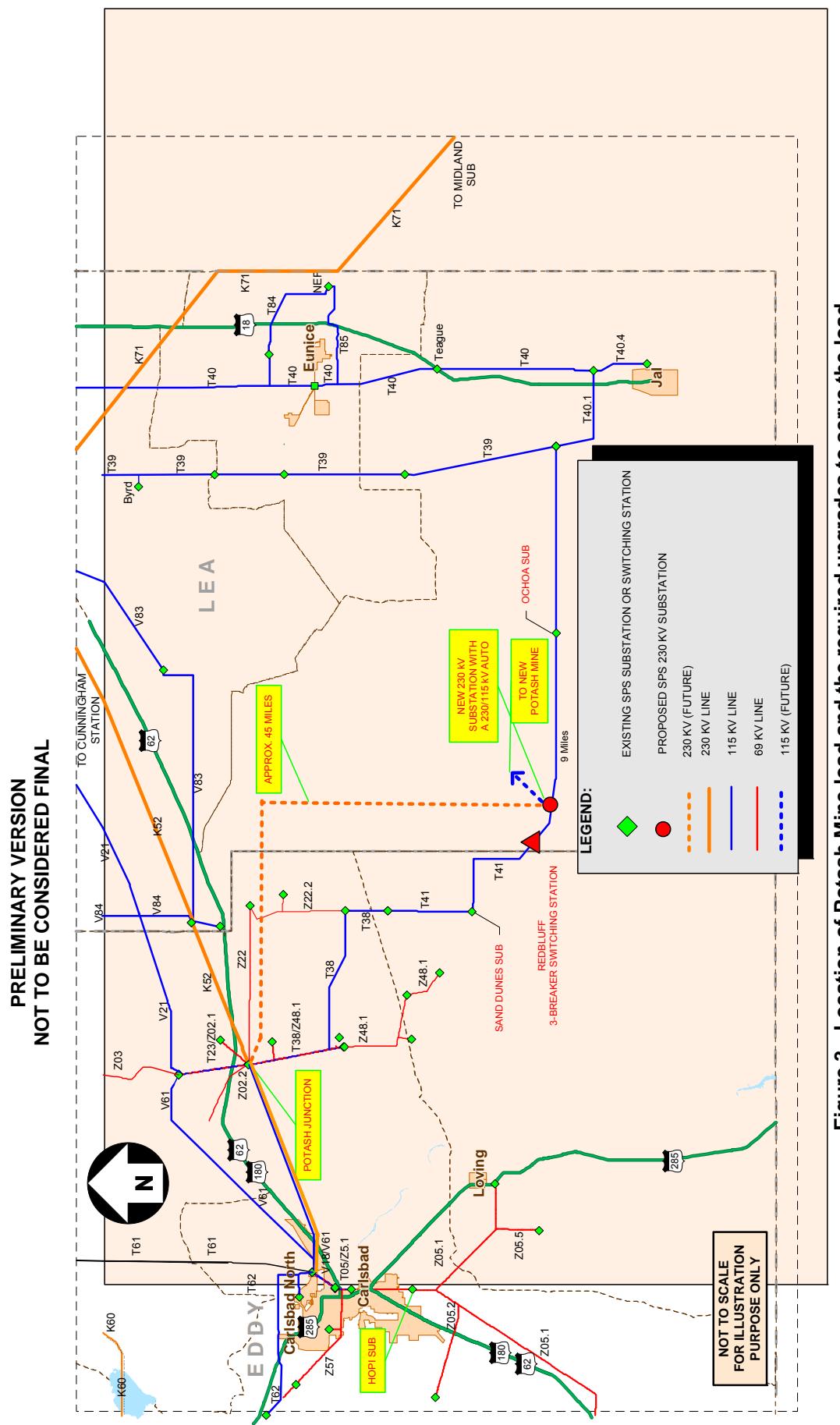


Figure 2 - Geographical locations of previous load requests modeled as part of base case



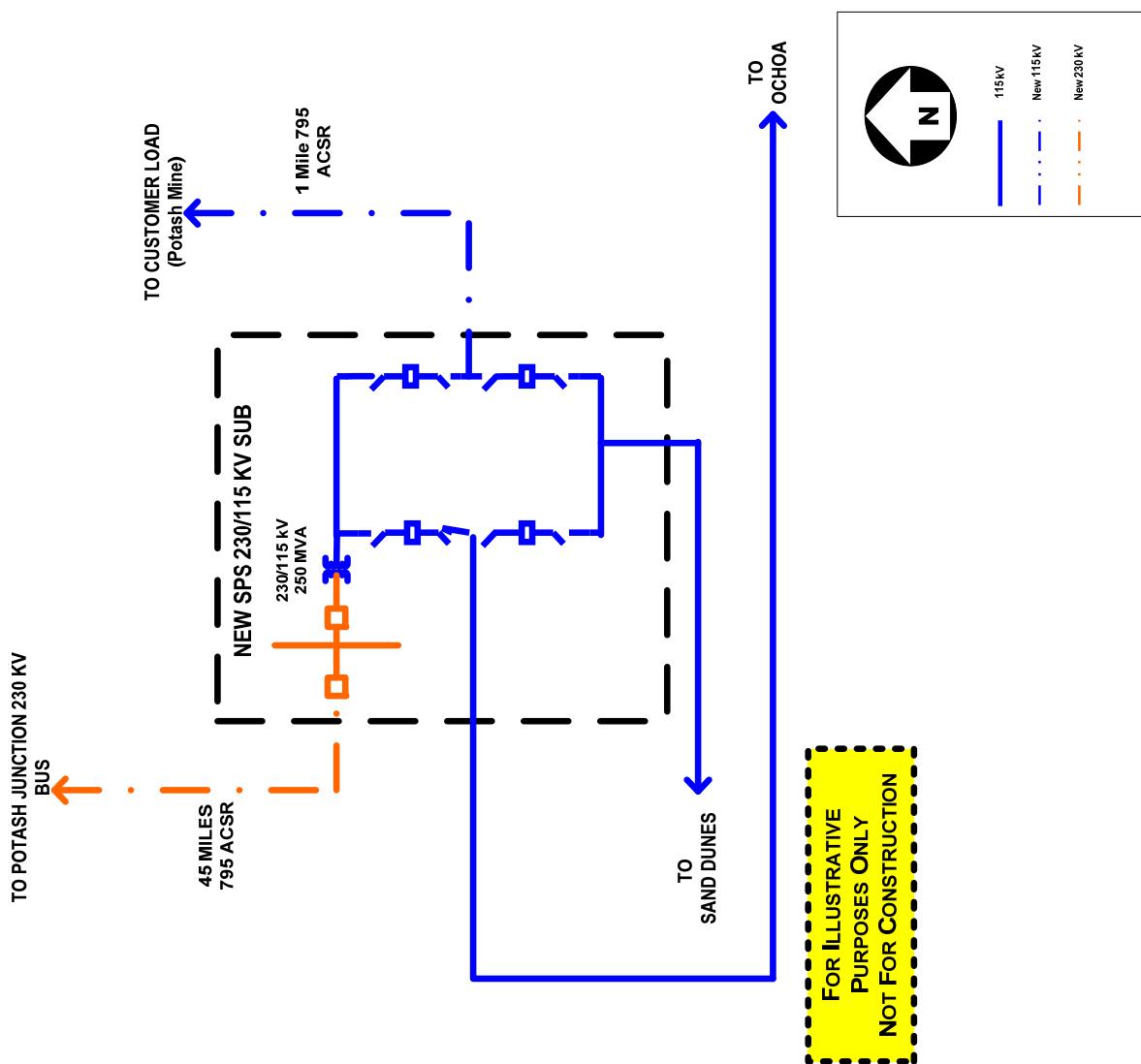


Figure 4 – SPS-New 230/115 kV Bus configuration

## Appendix B

### System Intact Violations:

Bus	17S		17W		22S		22W	
	Without Upgrades	With Upgrades						
REDBLFF_TAP3	<b>0.949</b>	1.007	0.954	1.009	<b>0.940</b>	1.006	<b>0.948</b>	1.007
POTASH_MINE	<b>0.939</b>	1.001	<b>0.945</b>	1.004	<b>0.929</b>	1.003	<b>0.939</b>	1.001
OCHOA	<b>0.936</b>	0.991	<b>0.943</b>	0.995	<b>0.925</b>	0.988	<b>0.935</b>	0.991
S_JAL	0.963	0.997	0.964	0.995	<b>0.948</b>	0.987	0.956	0.989
WHITTEN	0.957	0.994	0.959	0.995	<b>0.944</b>	0.987	0.953	0.990
DOLLARHIDE	0.961	0.994	0.961	0.993	<b>0.946</b>	0.985	0.954	0.987

**System Intact violations due to additional load**

**N-1 Contingency violations due to load additions at Agave and Intrepid West:**

**2017S (Summer Peak) low voltage without upgrades:**

Bus #	Bus Name	KV	Area	Zone	Contvolt	Basevolt	Contingency Description
528023	POTASH_MINE	115.0	526	1507	<b>0.8768</b>	0.9393	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8902</b>	0.9490	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.8657</b>	0.9363
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8469</b>	0.9729
528519	WARD	3	115.0	526	1508	<b>0.8558</b>	0.9645
528526	TEAGUE	3	115.0	526	1508	<b>0.8978</b>	0.9742
528540	WHITTEN	3	115.0	526	1508	<b>0.8685</b>	0.9565
528547	S_JAL	3	115.0	526	1508	<b>0.8789</b>	0.9631
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8442</b>	0.9792
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8427</b>	0.9833	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8764</b>	0.9607
528568	MONUMNT_TP	3	115.0	526	1508	<b>0.8405</b>	1.0021
528582	BYRD	3	115.0	526	1508	<b>0.8404</b>	0.9928
527964	INTREPIDWEST	115.0	526	1507	<b>0.2800</b>	0.9975	
528009	WIPP	3	115.0	526	1507	<b>0.3030</b>	0.9774
528016	SAND_DUNES	3	115.0	526	1507	<b>0.3117</b>	0.9641
528023	POTASH_MINE	115.0	526	1507	<b>0.3392</b>	0.9393	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.3294</b>	0.9490	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.3235</b>	0.9621	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528035	IMC_#1_TP	3	115.0	526	1507	<b>0.2819</b>	0.9898
528037	IMC_#1	3	115.0	526	1507	<b>0.2807</b>	0.9889
528232	OCHOA	3	115.0	526	1507	<b>0.4068</b>	0.9363
528505	LEA_ROAD	3	115.0	526	1508	<b>0.7665</b>	0.9729
528512	EUNICE	3	115.0	526	1508	<b>0.8656</b>	1.0081
528519	WARD	3	115.0	526	1508	<b>0.6913</b>	0.9645
528526	TEAGUE	3	115.0	526	1508	<b>0.7056</b>	0.9742
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8621</b>	1.0038	
528540	WHITTEN	3	115.0	526	1508	<b>0.6008</b>	0.9565
528547	S_JAL	3	115.0	526	1508	<b>0.6429</b>	0.9631
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8086</b>	0.9792

Bus #	Bus Name	kV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8352</b>	0.9833	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528561	DOLLARHIDE 3	115.0	526	1508	<b>0.6395</b>	0.9607	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528582	BYRD 3	115.0	526	1508	<b>0.8869</b>	0.9928	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528589	DRINKARD 3	115.0	526	1508	<b>0.8466</b>	1.0014	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7485</b>	0.9822	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528603	NA_ENRICH 3	115.0	526	1508	<b>0.7957</b>	0.9930	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528605	TARGA 3	115.0	526	1508	<b>0.7665</b>	0.9856	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528009	WIPP 3	115.0	526	1507	<b>0.3532</b>	0.9774	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES 3	115.0	526	1507	<b>0.3586</b>	0.9641	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE 115.0	526	1507	<b>0.3786</b>	0.9393	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528024	REDBLFFF_TAP3	115.0	526	1507	<b>0.3713</b>	0.9490	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528027	REDBLFFF_LD3	115.0	526	1507	<b>0.3658</b>	0.9621	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528035	IMC_#1_TP 3	115.0	526	1507	<b>0.3376</b>	0.9898	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528037	IMC_#1 3	115.0	526	1507	<b>0.3363</b>	0.9889	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528232	OCHOA 3	115.0	526	1507	<b>0.4394</b>	0.9363	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528505	LEA_ROAD 3	115.0	526	1508	<b>0.7790</b>	0.9729	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528512	EUNICE 3	115.0	526	1508	<b>0.8755</b>	1.0081	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528519	WARD 3	115.0	526	1508	<b>0.7072</b>	0.9645	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528526	TEAGUE 3	115.0	526	1508	<b>0.7217</b>	0.9742	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8719</b>	1.0038	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528540	WHITTEN 3	115.0	526	1508	<b>0.6216</b>	0.9565	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528547	S_JAL 3	115.0	526	1508	<b>0.6618</b>	0.9631	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528552	OIL_CENTER 3	115.0	526	1508	<b>0.8192</b>	0.9792	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8447</b>	0.9833	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528561	DOLLARHIDE 3	115.0	526	1508	<b>0.6584</b>	0.9607	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528582	BYRD 3	115.0	526	1508	<b>0.8946</b>	0.9928	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528589	DRINKARD 3	115.0	526	1508	<b>0.8571</b>	1.0014	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7629</b>	0.9822	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528603	NA_ENRICH 3	115.0	526	1508	<b>0.8083</b>	0.9930	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528605	TARGA 3	115.0	526	1508	<b>0.7802</b>	0.9856	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES 3	115.0	526	1507	<b>0.4623</b>	0.9641	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528023	POTASH_MINE 115.0	526	1507	<b>0.4707</b>	0.9393	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528024	REDBLFFF_TAP3	115.0	526	1507	<b>0.4673</b>	0.9490	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528027	REDBLFF_LD3	115.0	526	1507	<b>0.4635</b>	0.9621	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.5197</b>	0.9363 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8112</b>	0.9729 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8999</b>	1.0081 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7487</b>	0.9645 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7633</b>	0.9742 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8963</b>	1.0038 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6752</b>	0.9565 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7105</b>	0.9631 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8467</b>	0.9792 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8693</b>	0.9833 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7073</b>	0.9607 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8832</b>	1.0014 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7997</b>	0.9822 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8401</b>	0.9930 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8150</b>	0.9856 528009 WIPP 3 115 528016 SAND_DUNES 3 115 1
528009	WIPIP	3	115.0	526	1507	<b>0.4755</b>	0.9774 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.4726</b>	0.9641 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.4751</b>	0.9393 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.4735</b>	0.9490 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.4698</b>	0.9621 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.5205</b>	0.9363 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8086</b>	0.9729 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8975</b>	1.0081 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7461</b>	0.9645 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7606</b>	0.9742 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8938</b>	1.0038 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6730</b>	0.9565 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7080</b>	0.9631 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8442</b>	0.9792 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8669</b>	0.9833 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7048</b>	0.9607 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8807</b>	1.0014 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7970</b>	0.9822	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8375</b>	0.9930 528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8123</b>	0.9856 528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.5618</b>	0.9393	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.5613</b>	0.9490	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.5599</b>	0.9621	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.6005</b>	0.9363 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8415</b>	0.9729 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7894</b>	0.9645 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8033</b>	0.9742 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.7290</b>	0.9565 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7587</b>	0.9631 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8715</b>	0.9792 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8906</b>	0.9833	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7557</b>	0.9607 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8342</b>	0.9822	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8689</b>	0.9930 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8472</b>	0.9856 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.6535</b>	0.9393 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.6866</b>	0.9363 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8784</b>	0.9729 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8378</b>	0.9645 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8507</b>	0.9742 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.7907</b>	0.9565 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8147</b>	0.9631 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8119</b>	0.9607 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8757</b>	0.9822	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8862</b>	0.9856 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528009	WIIPP	3	115.0	526	1507	<b>0.8991</b>	0.9774 528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.8706</b>	0.9641 528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8232</b>	0.9393 528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8382</b>	0.9490	528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8473</b>	0.9621	528232 OCHOA 3 115 528540 WHITTEN 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528232	OCHOA	3	115.0	526	1507	<b>0.8101</b>	0.9363 528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528009	WIPP	3	115.0	526	1507	<b>0.8305</b>	0.9774 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.7920</b>	0.9641 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.7250</b>	0.9393 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.7454</b>	0.9490 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.7510</b>	0.9621 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.7013</b>	0.9363 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8073</b>	0.9729 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.5826</b>	1.0081 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7492</b>	0.9645 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.6102</b>	0.9742 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.5809</b>	1.0038 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6873</b>	0.9565 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.6467</b>	0.9631 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8417</b>	0.9792 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8640</b>	0.9833 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.6433</b>	0.9607 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.5797</b>	1.0014 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.5924</b>	0.9822 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.5819</b>	0.9930 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.5860</b>	0.9856 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.8934</b>	0.9363 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8939</b>	0.9729 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8972</b>	0.9645 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528009	WIPP	3	115.0	526	1507	<b>0.8902</b>	0.9774 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.8575</b>	0.9641 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.7993</b>	0.9393 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8177</b>	0.9490 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8261</b>	0.9621 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.7778</b>	0.9363 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8546</b>	0.9729 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8112</b>	0.9645 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7055</b>	0.9742 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1

Bus #	Bus Name	kV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528540	WHITTEN	3	115.0	526	1508	<b>0.7655</b>	0.9565 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7345</b>	0.9631 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8809</b>	0.9792 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8980</b>	0.9833 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7314</b>	0.9607 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.6757</b>	1.0014 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.6904</b>	0.9822 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.6804</b>	0.9930 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.6845</b>	0.9856 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8978</b>	0.9393 528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8901</b>	0.9363 528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8890</b>	0.9729 528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8928</b>	0.9645 528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8986</b>	0.9565 528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8887</b>	0.9792 528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8933</b>	0.9393 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8848</b>	0.9363 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8798</b>	0.9729 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8847</b>	0.9645 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8920</b>	0.9565 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8789</b>	0.9792 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8786</b>	0.9833 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8983</b>	0.9607 528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8764</b>	0.9393 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8898</b>	0.9490 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8652</b>	0.9363 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8460</b>	0.9729 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8550</b>	0.9645 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8973</b>	0.9742 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8679</b>	0.9565 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8784</b>	0.9631 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8432</b>	0.9792 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8417</b>	0.9833 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8758</b>	0.9607
528582	BYRD	3	115.0	526	1508	<b>0.8394</b>	0.9928
528023	POTASH_MINE	115.0	526	1507	<b>0.8766</b>	0.9393	528589 DRINKARD
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8908</b>	0.9490	528589 DRINKARD
528232	OCHOA	3	115.0	526	1507	<b>0.8634</b>	0.9363
528519	WARD	3	115.0	526	1508	<b>0.8887</b>	0.9645
528526	TEAGUE	3	115.0	526	1508	<b>0.8434</b>	0.9742
528540	WHITTEN	3	115.0	526	1508	<b>0.8640</b>	0.9565
528547	S_JAL	3	115.0	526	1508	<b>0.8523</b>	0.9631
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8496</b>	0.9607
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8395</b>	0.9822	528589 DRINKARD
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8390</b>	0.9930
528605	TARGA	3	115.0	526	1508	<b>0.8380</b>	0.9856
528023	POTASH_MINE	115.0	526	1507	<b>0.8948</b>	0.9393	528603 NA_ENRICH
528232	OCHOA	3	115.0	526	1507	<b>0.8837</b>	0.9363
528526	TEAGUE	3	115.0	526	1508	<b>0.8703</b>	0.9742
528540	WHITTEN	3	115.0	526	1508	<b>0.8890</b>	0.9565
528547	S_JAL	3	115.0	526	1508	<b>0.8791</b>	0.9631
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8765</b>	0.9607
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8654</b>	0.9822	528603 NA_ENRICH
528605	TARGA	3	115.0	526	1508	<b>0.8633</b>	0.9856

** From bus	** * *	To bus	** CKT	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
528491_MONUMENT	3 115 528498_W_HOBBS	3 115 1	<b>149.3</b>	110.2	141.0	<b>105.9</b>	527864 CUNNINGHAM	3 115 528568 MONUMNT_TP 3 115 1
528498_W_HOBBS	3 115 528533_DRINKARD_TP3	115 1	<b>164.9</b>	108.2	160.0	<b>103.0</b>	527864 CUNNINGHAM	3 115 528568 MONUMNT_TP 3 115 1
527864_CUNNINGHAM	3 115 528568_MONUMNT_TP	3 115 1	<b>201.8</b>	101.6	160.0	<b>126.1</b>	527962 POTASH_JCT	3 115 527964 INTREPIDWEST 115 1
528023_POTASH_MINE	115 528232_OCHOA	3 115 1	<b>207.8</b>	52.2	176.0	<b>118.0</b>	527962 POTASH_JCT	3 115 527964 INTREPIDWEST 115 1
528232_OCHOA	3 115 528540_WHITTEN	3 115 1	<b>246.5</b>	70.9	141.0	<b>174.8</b>	527962 POTASH_JCT	3 115 527964 INTREPIDWEST 115 1
528491_MONUMENT	3 115 528498_W_HOBBS	3 115 1	<b>145.7</b>	110.2	141.0	<b>103.4</b>	527962 POTASH_JCT	3 115 527964 INTREPIDWEST 115 1
528498_W_HOBBS	3 115 528533_DRINKARD_TP3	115 1	<b>165.0</b>	108.2	160.0	<b>103.1</b>	527962 POTASH_JCT	3 115 527964 INTREPIDWEST 115 1
528505_LEA_ROAD	3 115 528519_WARD	3 115 1	<b>174.5</b>	76.5	141.0	<b>123.7</b>	527962 POTASH_JCT	3 115 527964 INTREPIDWEST 115 1
528505_LEA_ROAD	3 115 528552_OIL_CENTER	3 115 1	<b>186.0</b>	85.8	141.0	<b>131.9</b>	527962 POTASH_JCT	3 115 527964 INTREPIDWEST 115 1

*	From bus	**	To bus	**	CKT	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
528519 WARD	3 115 528540 WHITTEN		3 115 1		<b>172.2</b>	75.1	141.0	<b>122.1</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528533 DRINKARD_TP3	3 115 528589 DRINKARD		3 115 1		<b>165.7</b>	92.2	160.0	<b>103.6</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115	1		<b>188.0</b>	87.8	141.0	<b>133.3</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528554 COOPER_RNCH3	3 115 528582 BYRD		3 115 1		<b>191.7</b>	91.6	141.0	<b>136.0</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528568 MONUMNT_TP	3 115 528582 BYRD		3 115 1		<b>202.1</b>	101.6	141.0	<b>143.4</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
527864 CUNNINGHAM	3 115 528568 MONUMNT_TP	3	115 1		<b>199.8</b>	101.6	160.0	<b>124.9</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528023 POTASH_MINE	115 528232 OCCHOA		3 115 1		<b>199.1</b>	52.2	176.0	<b>113.1</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528232 OCCHOA	3 115 528540 WHITTEN		3 115 1		<b>240.3</b>	70.9	141.0	<b>170.4</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528491 MONUMENT	3 115 528498 W_HOBBS		3 115 1		<b>145.2</b>	110.2	141.0	<b>103.0</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528498 W_HOBBS	3 115 528533 DRINKARD_TP3	115	1		<b>164.1</b>	108.2	160.0	<b>102.5</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD	3 115 528519 WARD		3 115 1		<b>171.8</b>	76.5	141.0	<b>121.8</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3	115 1		<b>183.4</b>	85.8	141.0	<b>130.1</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528519 WARD	3 115 528540 WHITTEN		3 115 1		<b>169.4</b>	75.1	141.0	<b>120.1</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528533 DRINKARD_TP3	3 115 528589 DRINKARD		3 115 1		<b>163.9</b>	92.2	160.0	<b>102.4</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115	1		<b>185.5</b>	87.8	141.0	<b>131.5</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528554 COOPER_RNCH3	3 115 528582 BYRD		3 115 1		<b>189.3</b>	91.6	141.0	<b>134.3</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528568 MONUMNT_TP	3 115 528582 BYRD		3 115 1		<b>199.9</b>	101.6	141.0	<b>141.8</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
527864 CUNNINGHAM	3 115 528568 MONUMNT_TP	3	115 1		<b>189.3</b>	101.6	160.0	<b>118.3</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528023 POTASH_MINE	115 528232 OCCHOA		3 115 1		<b>181.0</b>	52.2	176.0	<b>102.9</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528232 OCCHOA	3 115 528540 WHITTEN		3 115 1		<b>221.3</b>	70.9	141.0	<b>156.9</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528491 MONUMENT	3 115 528498 W_HOBBS		3 115 1		<b>141.6</b>	110.2	141.0	<b>100.4</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528505 LEA_ROAD	3 115 528519 WARD		3 115 1		<b>161.2</b>	76.5	141.0	<b>114.3</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3	115 1		<b>172.7</b>	85.8	141.0	<b>122.5</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528519 WARD	3 115 528540 WHITTEN		3 115 1		<b>158.8</b>	75.1	141.0	<b>112.6</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115	1		<b>174.8</b>	87.8	141.0	<b>124.0</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528554 COOPER_RNCH3	3 115 528582 BYRD		3 115 1		<b>178.8</b>	91.6	141.0	<b>126.8</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
528568 MONUMNT_TP	3 115 528582 BYRD		3 115 1		<b>189.5</b>	101.6	141.0	<b>134.4</b>	528009 WIIPP 3 115 528016 SAND_DUNES 3 115 1	
527864 CUNNINGHAM	3 115 528568 MONUMNT_TP	3	115 1		<b>191.9</b>	101.6	160.0	<b>120.0</b>	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1	
528023 POTASH_MINE	115 528232 OCCHOA		3 115 1		<b>184.5</b>	52.2	176.0	<b>104.8</b>	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1	
528232 OCCHOA	3 115 528540 WHITTEN		3 115 1		<b>224.2</b>	70.9	141.0	<b>159.0</b>	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1	
528491 MONUMENT	3 115 528498 W_HOBBS		3 115 1		<b>142.9</b>	110.2	141.0	<b>101.4</b>	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD	3 115 528519 WARD		3 115 1		<b>163.5</b>	76.5	141.0	<b>116.0</b>	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3	115 1		<b>175.2</b>	85.8	141.0	<b>124.2</b>	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1	
528519 WARD	3 115 528540 WHITTEN		3 115 1		<b>161.2</b>	75.1	141.0	<b>114.3</b>	528009 WIIPP 3 115 528035 IMC_#1_TP 3 115 1	

* *	From bus	** **	To bus	** CKT	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
528552 OIL_CENTER	3 115 528554 COOPER_RNCH	3 115 1		<b>177.3</b>	87.8	141.0	<b>125.7</b>	528009 WIPP	3 115 528035 IMC #1_TP 3 115 1
528554 COOPER_RNCH	3 115 528582 BYRD	3 115 1		<b>181.3</b>	91.6	141.0	<b>128.6</b>	528009 WIPP	3 115 528035 IMC #1_TP 3 115 1
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1		<b>192.1</b>	101.6	141.0	<b>136.2</b>	528009 WIPP	3 115 528035 IMC #1_TP 3 115 1
527864 CUNNINGHAM	3 115 528568 MONUMNT_TP	3 115 1		<b>175.0</b>	101.6	160.0	<b>109.4</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528232 OCHOA	3 115 528540 WHITTEN	3 115 1		<b>196.4</b>	70.9	141.0	<b>139.3</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528505 LEA_ROAD	3 115 528519 WARD	3 115 1		<b>146.8</b>	76.5	141.0	<b>104.1</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1		<b>158.2</b>	85.8	141.0	<b>112.2</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528519 WARD	3 115 528540 WHITTEN	3 115 1		<b>144.6</b>	75.1	141.0	<b>102.6</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528552 OIL_CENTER	3 115 528554 COOPER_RNCH	3 115 1		<b>160.3</b>	87.8	141.0	<b>113.7</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528554 COOPER_RNCH	3 115 528582 BYRD	3 115 1		<b>164.3</b>	91.6	141.0	<b>116.5</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1		<b>175.1</b>	101.6	141.0	<b>124.2</b>	528016 SAND_DUNES	3 115 528024 REDBLFF_TAP3 115 1
528232 OCHOA	3 115 528540 WHITTEN	3 115 1		<b>158.9</b>	70.9	141.0	<b>112.7</b>	528023 POTASH_MINE	3 115 528024 REDBLFF_TAP3 115 1
528554 COOPER_RNCH	3 115 528582 BYRD	3 115 1		<b>141.0</b>	91.6	141.0	100.0	528023 POTASH_MINE	3 115 528024 REDBLFF_TAP3 115 1
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1		<b>151.8</b>	101.6	141.0	<b>107.6</b>	528023 POTASH_MINE	3 115 528024 REDBLFF_TAP3 115 1
527962 POTASH_JCT	3 115 527964 INTREPIDWEST	3 115 1		<b>186.3</b>	97.4	160.0	<b>116.4</b>	528323 OCHOA	3 115 528540 WHITTEN 3 115 1
527964 INTREPIDWEST	3 115 528035 IMC #1_TP	3 115 1		<b>173.9</b>	85.3	160.0	<b>108.7</b>	528323 OCHOA	3 115 528540 WHITTEN 3 115 1
528413 TAYLOR	3 115 528470 E_SANGER	3 115 1		<b>146.7</b>	44.9	141.0	<b>104.0</b>	528355 MADDOX	3 115 528491 MONUMENT 3 115 1
528491 MONUMENT	3 115 528498 W_HOBBS	3 115 1		<b>149.7</b>	110.2	141.0	<b>106.2</b>	528413 TAYLOR	3 115 528470 E_SANGER 3 115 1
527864 CUNNINGHAM	3 115 528568 MONUMNT_TP	3 115 1		<b>216.4</b>	101.6	160.0	<b>135.3</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
527962 POTASH_JCT	3 115 527964 INTREPIDWEST	3 115 1		<b>189.0</b>	97.4	160.0	<b>118.1</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
527964 INTREPIDWEST	3 115 528035 IMC #1_TP	3 115 1		<b>176.7</b>	85.3	160.0	<b>110.4</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528009 WIPP	3 115 528016 SAND_DUNES	3 115 1		<b>164.1</b>	71.1	160.0	<b>102.5</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528505 LEA_ROAD	3 115 528519 WARD	3 115 1		<b>186.9</b>	76.5	141.0	<b>132.5</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1		<b>198.9</b>	85.8	141.0	<b>141.1</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528519 WARD	3 115 528540 WHITTEN	3 115 1		<b>184.4</b>	75.1	141.0	<b>130.8</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528540 WHITTEN	3 115 528547 S_JAL	3 115 1		<b>162.0</b>	14.7	141.0	<b>114.9</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528552 OIL_CENTER	3 115 528554 COOPER_RNCH	3 115 1		<b>201.2</b>	87.8	141.0	<b>142.7</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528554 COOPER_RNCH	3 115 528582 BYRD	3 115 1		<b>205.5</b>	91.6	141.0	<b>145.7</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1		<b>216.6</b>	101.6	141.0	<b>153.6</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528491 MONUMENT	3 115 528498 W_HOBBS	3 115 1		<b>142.3</b>	110.2	141.0	<b>100.9</b>	528505 LEA_ROAD	3 115 528552 OIL_CENTER 3 115 1
527864 CUNNINGHAM	3 115 528568 MONUMNT_TP	3 115 1		<b>190.8</b>	101.6	160.0	<b>119.3</b>	528533 DRINKARD_TP3	115 528589 DRINKARD 3 115 1
527962 POTASH_JCT	3 115 527964 INTREPIDWEST	3 115 1		<b>166.8</b>	97.4	160.0	<b>104.3</b>	528533 DRINKARD_TP3	115 528589 DRINKARD 3 115 1
528505 LEA_ROAD	3 115 528519 WARD	3 115 1		<b>162.2</b>	76.5	141.0	<b>115.1</b>	528533 DRINKARD_TP3	115 528589 DRINKARD 3 115 1
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1		<b>173.6</b>	85.8	141.0	<b>123.1</b>	528533 DRINKARD_TP3	115 528589 DRINKARD 3 115 1

*	From bus	**	To bus	**	CKT	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
528519 WARD	3 115	528540 WHITTEN	3 115	1	<b>160.3</b>	75.1	141.0	<b>113.7</b>	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528552 OIL_CENTER	3 115	528554 COOPER_RNCH3	115	1	<b>175.8</b>	87.8	141.0	<b>124.7</b>	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528554 COOPER_RNCH3	115	528582 BYRD	3	115	<b>179.9</b>	91.6	141.0	<b>127.6</b>	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528568 MONUMNT_TP	3 115	528582 BYRD	3	115	<b>190.9</b>	101.6	141.0	<b>135.4</b>	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528491 MONUMENT	3 115	528498 W_HOBBS	3	115	<b>143.2</b>	110.2	141.0	<b>101.5</b>	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3	115 1
528491 MONUMENT	3 115	528498 W_HOBBS	3	115	<b>144.8</b>	110.2	141.0	<b>102.7</b>	528554 COOPER_RNCH3 115 528582 BYRD	3 115 1
528491 MONUMENT	3 115	528498 W_HOBBS	3	115	<b>149.3</b>	110.2	141.0	<b>105.9</b>	528568 MONUMNT_TP 3 115 528582 BYRD	3 115 1
528498 W_HOBBS	3 115	528533 DRINKARD_TP3	115	1	<b>164.9</b>	108.2	160.0	<b>103.0</b>	528568 MONUMNT_TP 3 115 528582 BYRD	3 115 1
527864 CUNNINGHAM	3 115	528568 MONUMNT_TP	3	115	<b>160.4</b>	101.6	160.0	<b>100.3</b>	528569 DRINKARD	3 115 528603 NA_ENRICH
528505 LEA_ROAD	3 115	528552 OIL_CENTER	3	115	<b>143.7</b>	85.8	141.0	<b>101.9</b>	528589 DRINKARD	3 115 528603 NA_ENRICH
528552 OIL_CENTER	3 115	528554 COOPER_RNCH3	115	1	<b>145.9</b>	87.8	141.0	<b>103.4</b>	528589 DRINKARD	3 115 528603 NA_ENRICH
528554 COOPER_RNCH3	115	528582 BYRD	3	115	<b>149.9</b>	91.6	141.0	<b>106.3</b>	528589 DRINKARD	3 115 528603 NA_ENRICH
528568 MONUMNT_TP	3 115	528582 BYRD	3	115	<b>160.5</b>	101.6	141.0	<b>113.8</b>	528589 DRINKARD	3 115 528603 NA_ENRICH

### 2017W (Winter Peak) without upgrades:

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528023 POTASH_MINE		115.0	526	1507	<b>0.8898</b>	0.9446	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528232 OCHOA	3	115.0	526	1507	<b>0.8807</b>	0.9429	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8617</b>	0.9742	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528519 WARD	3	115.0	526	1508	<b>0.8700</b>	0.9668	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.8815</b>	0.9593	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.8899</b>	0.9635	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8592</b>	0.9799	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528554 COOPER_RNCH3	115.0	526	1508		<b>0.8578</b>	0.9836	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8873</b>	0.9612	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528568 MONUMNT_TP	3	115.0	526	1508	<b>0.8556</b>	1.0001	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528582 BYRD	3	115.0	526	1508	<b>0.8556</b>	0.9918	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
527964 INTREPIDWEST	115.0	526	1507		<b>0.2885</b>	0.9974	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528009 WIIPP	3	115.0	526	1507	<b>0.3115</b>	0.9801	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description	
528016	SAND_DUNES	3	115.0	526	1507	<b>0.3198</b>	0.9675	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.3463</b>	0.9446	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.3368</b>	0.9538	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.3311</b>	0.9670	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528035	IMC_#1_TP	3	115.0	526	1507	<b>0.2903</b>	0.9903	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528037	IMC_#1	3	115.0	526	1507	<b>0.2891</b>	0.9894	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.4130</b>	0.9429	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.7588</b>	0.9742	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8412</b>	0.9899	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528519	WARD	3	115.0	526	1508	<b>0.6863</b>	0.9668	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.6962</b>	0.9707	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8418</b>	0.9904	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.5987</b>	0.9593	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.6381</b>	0.9635	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.7993</b>	0.9799	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8250</b>	0.9836	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.6347</b>	0.9612	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528582	BYRD	3	115.0	526	1508	<b>0.8747</b>	0.9918	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8276</b>	0.9892	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7357</b>	0.9758	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.7796</b>	0.9837	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528605	TARGA	3	115.0	526	1508	<b>0.7524</b>	0.9780	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528009	WIPP	3	115.0	526	1507	<b>0.3538</b>	0.9801	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.3587</b>	0.9675	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.3778</b>	0.9446	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.3708</b>	0.9538	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.3653</b>	0.9670	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528035	IMC_#1_TP	3	115.0	526	1507	<b>0.3382</b>	0.9903	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528037	IMC_#1	3	115.0	526	1507	<b>0.3369</b>	0.9894	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.4379</b>	0.9429	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description		
528505	LEA_ROAD	3	115.0	526	1508	<b>0.7617</b>	0.9742	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8398</b>	0.9899	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.6930</b>	0.9668	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7021</b>	0.9707	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8404</b>	0.9904	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6105</b>	0.9593	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.6474</b>	0.9635	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8004</b>	0.9799	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8249</b>	0.9836	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.6440</b>	0.9612	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528582	BYRD	3	115.0	526	1508	<b>0.8725</b>	0.9918	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8269</b>	0.9892	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7394</b>	0.9758	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.7811</b>	0.9837	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.7551</b>	0.9780	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.4663</b>	0.9675	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.4747</b>	0.9446	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528024	REDBLFFF_TAP3	115.0	526	1507	<b>0.4714</b>	0.9538	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528027	REDBLFFF_LD3	115.0	526	1507	<b>0.4676</b>	0.9670	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.5238</b>	0.9429	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8029</b>	0.9742	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8737</b>	0.9899	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7429</b>	0.9668	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7522</b>	0.9707	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8742</b>	0.9904	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6717</b>	0.9593	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7042</b>	0.9635	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8370</b>	0.9799	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8587</b>	0.9836	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7009</b>	0.9612	528009	WIPIP 3 115 528016 SAND_DUNES 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description	
528589	DRINKARD	3	115.0	526	1508	<b>0.8625</b>	0.9892	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7852</b>	0.9758	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8223</b>	0.9837	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.7991</b>	0.9780	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528009	WIPIP	3	115.0	526	1507	<b>0.4883</b>	0.9801	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.4847</b>	0.9675	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.4860</b>	0.9446	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.4848</b>	0.9538	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.4813</b>	0.9670	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.5302</b>	0.9429	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8017</b>	0.9742	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8718</b>	0.9899	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7424</b>	0.9668	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7516</b>	0.9707	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8724</b>	0.9904	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6726</b>	0.9593	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7044</b>	0.9635	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8355</b>	0.9799	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8570</b>	0.9836	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7012</b>	0.9612	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528582	BYRD	3	115.0	526	1508	<b>0.8994</b>	0.9918	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8607</b>	0.9892	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7841</b>	0.9758	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8208</b>	0.9837	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.7978</b>	0.9780	528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.5712</b>	0.9446	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.5708</b>	0.9538	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.5696</b>	0.9670	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.6097</b>	0.9429	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8371</b>	0.9742	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description	
528512	EUNICE	3	115.0	526	1508	<b>0.8971</b>	0.9899	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7878</b>	0.9668	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7962</b>	0.9707	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8977</b>	0.9904	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.7299</b>	0.9593	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7566</b>	0.9635	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8655</b>	0.9799	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8837</b>	0.9836	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7536</b>	0.9612	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8880</b>	0.9892	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8235</b>	0.9758	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8548</b>	0.9837	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8351</b>	0.9780	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.6638</b>	0.9446	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.6966</b>	0.9429	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8755</b>	0.9742	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8375</b>	0.9668	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8448</b>	0.9707	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.7928</b>	0.9593	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8137</b>	0.9635	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8977</b>	0.9799	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8109</b>	0.9612	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8662</b>	0.9758	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8911</b>	0.9837	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8752</b>	0.9780	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8653</b>	0.9446	528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8784</b>	0.9538	528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8890</b>	0.9670	528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8558</b>	0.9429	528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.8888</b>	0.9675	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description	
528023	POTASH_MINE	115.0	526	1507	<b>0.8418</b>	0.9446	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8571</b>	0.9538	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8670</b>	0.9670	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528232	OCHOA	3 115.0	526	1507	<b>0.8268</b>	0.9429	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528505	LEA_ROAD	3 115.0	526	1508	<b>0.8833</b>	0.9742	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528512	EUNICE	3 115.0	526	1508	<b>0.7597</b>	0.9899	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528519	WARD	3 115.0	526	1508	<b>0.8516</b>	0.9668	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528526	TEAGUE	3 115.0	526	1508	<b>0.7782</b>	0.9707	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.7604</b>	0.9904	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528540	WHITTEN	3 115.0	526	1508	<b>0.8186</b>	0.9593	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528547	S_JAL	3 115.0	526	1508	<b>0.7975</b>	0.9635	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528561	DOLLARHIDE	3 115.0	526	1508	<b>0.7947</b>	0.9612	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528589	DRINKARD	3 115.0	526	1508	<b>0.7608</b>	0.9892	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7685</b>	0.9758	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528603	NA_ENRICH	3 115.0	526	1508	<b>0.7632</b>	0.9837	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528605	TARGA	3 115.0	526	1508	<b>0.7647</b>	0.9780	528498 W_HOBBS	3 115 528533 DRINKARD_TP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8818</b>	0.9446	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8953</b>	0.9538	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528232	OCHOA	3 115.0	526	1507	<b>0.8704</b>	0.9429	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528519	WARD	3 115.0	526	1508	<b>0.8905</b>	0.9668	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528526	TEAGUE	3 115.0	526	1508	<b>0.8464</b>	0.9707	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528540	WHITTEN	3 115.0	526	1508	<b>0.8678</b>	0.9593	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528547	S_JAL	3 115.0	526	1508	<b>0.8558</b>	0.9635	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528561	DOLLARHIDE	3 115.0	526	1508	<b>0.8532</b>	0.9612	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528589	DRINKARD	3 115.0	526	1508	<b>0.8422</b>	0.9892	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8424</b>	0.9758	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528603	NA_ENRICH	3 115.0	526	1508	<b>0.8420</b>	0.9837	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528605	TARGA	3 115.0	526	1508	<b>0.8408</b>	0.9780	528533 DRINKARD_TP3 115 528589 DRINKARD	3 115 1
528505	LEA_ROAD	3 115.0	526	1508	<b>0.8986</b>	0.9742	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3	115 1
528552	OIL_CENTER	3 115.0	526	1508	<b>0.8984</b>	0.9799	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3	115 1

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description	
528232	OCHOA	3	115.0	526	1507	<b>0.8977</b>	0.9429	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8919</b>	0.9742	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8964</b>	0.9668	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8913</b>	0.9799	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8911</b>	0.9836	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1	
528023	POTASH_MINE	115.0	526	1507	<b>0.8894</b>	0.9446	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8802</b>	0.9429	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8608</b>	0.9742	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8693</b>	0.9668	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8809</b>	0.9593	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8894</b>	0.9635	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8583</b>	0.9799	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8569</b>	0.9836	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8868</b>	0.9612	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528582	BYRD	3	115.0	526	1508	<b>0.8546</b>	0.9918	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8947</b>	0.9446	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8853</b>	0.9429	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8706</b>	0.9707	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8866</b>	0.9593	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8776</b>	0.9635	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8750</b>	0.9612	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8676</b>	0.9758	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8677</b>	0.9837	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8663</b>	0.9780	528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8889</b>	0.9707	528603 NA_ENRICH 3 115 528605 TARGA 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8970</b>	0.9635	528603 NA_ENRICH 3 115 528605 TARGA 3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8945</b>	0.9612	528603 NA_ENRICH 3 115 528605 TARGA 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8842</b>	0.9758	528603 NA_ENRICH 3 115 528605 TARGA 3 115 1	
528605	TARGA	3	115.0	526	1508	<b>0.8821</b>	0.9780	528603 NA_ENRICH 3 115 528605 TARGA 3 115 1

<b>** From bus</b>	<b>** To bus</b>	<b>** CKT</b>	<b>ContMVA</b>	<b>BaseFlow</b>	<b>Rating</b>	<b>Loading%</b>	<b>Contingency Description</b>
527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1	<b>194.5</b>	89.7	177.0	<b>109.9</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1		
528023 POTASH_MINE 115 528232 OCHOA	3 115 1	<b>207.9</b>	45.1	191.0	<b>108.9</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528232 OCHOA 3 115 528540 WHITTEN	3 115 1	<b>240.1</b>	61.4	156.0	<b>153.9</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528505 LEA_ROAD 3 115 528519 WARD	3 115 1	<b>168.3</b>	65.8	156.0	<b>107.9</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528505 LEA_ROAD 3 115 528552 OIL_CENTER	3 115 1	<b>180.0</b>	75.1	156.0	<b>115.4</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528519 WARD 3 115 528540 WHITTEN	3 115 1	<b>166.8</b>	64.8	156.0	<b>106.9</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528552 OIL_CENTER 3 115 528554 COOPER_RNCH3	115 1	<b>181.9</b>	77.2	156.0	<b>116.6</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528554 COOPER_RNCH3 115 528582 BYRD	3 115 1	<b>184.4</b>	79.8	156.0	<b>118.2</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528568 MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>194.9</b>	89.7	156.0	<b>125.0</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
527864 CUNNINGHAM 3 115 528568 MONUMNT_TP	3 115 1	<b>191.8</b>	89.7	177.0	<b>108.3</b>	527964 INTREPIDWEST 115 527935 IMC_#1_TP 3 115 1	
528023 POTASH_MINE 115 528232 OCHOA	3 115 1	<b>198.1</b>	45.1	191.0	<b>103.7</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528232 OCHOA 3 115 528540 WHITTEN	3 115 1	<b>230.9</b>	61.4	156.0	<b>148.0</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD 3 115 528519 WARD	3 115 1	<b>164.1</b>	65.8	156.0	<b>105.2</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD 3 115 528552 OIL_CENTER	3 115 1	<b>176.1</b>	75.1	156.0	<b>112.9</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528519 WARD 3 115 528540 WHITTEN	3 115 1	<b>162.4</b>	64.8	156.0	<b>104.1</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528552 OIL_CENTER 3 115 528554 COOPER_RNCH3	115 1	<b>178.2</b>	77.2	156.0	<b>114.2</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528554 COOPER_RNCH3 115 528582 BYRD	3 115 1	<b>180.9</b>	79.8	156.0	<b>116.0</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528568 MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>191.8</b>	89.7	156.0	<b>122.9</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
527864 CUNNINGHAM 3 115 528568 MONUMNT_TP	3 115 1	<b>181.5</b>	89.7	177.0	<b>102.6</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528232 OCHOA 3 115 528540 WHITTEN	3 115 1	<b>214.6</b>	61.4	156.0	<b>137.5</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528505 LEA_ROAD 3 115 528552 OIL_CENTER	3 115 1	<b>166.0</b>	75.1	156.0	<b>106.4</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528552 OIL_CENTER 3 115 528554 COOPER_RNCH3	115 1	<b>168.1</b>	77.2	156.0	<b>107.8</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528554 COOPER_RNCH3 115 528582 BYRD	3 115 1	<b>170.8</b>	79.8	156.0	<b>109.5</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528568 MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>181.7</b>	89.7	156.0	<b>116.5</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
527864 CUNNINGHAM 3 115 528568 MONUMNT_TP	3 115 1	<b>183.5</b>	89.7	177.0	<b>103.7</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528232 OCHOA 3 115 528540 WHITTEN	3 115 1	<b>216.3</b>	61.4	156.0	<b>138.6</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD 3 115 528552 OIL_CENTER	3 115 1	<b>167.7</b>	75.1	156.0	<b>107.5</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528552 OIL_CENTER 3 115 528554 COOPER_RNCH3	115 1	<b>169.9</b>	77.2	156.0	<b>108.9</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528554 COOPER_RNCH3 115 528582 BYRD	3 115 1	<b>172.7</b>	79.8	156.0	<b>110.7</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528568 MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>183.6</b>	89.7	156.0	<b>117.7</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528232 OCHOA 3 115 528540 WHITTEN	3 115 1	<b>189.3</b>	61.4	156.0	<b>121.4</b>	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528568 MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>166.6</b>	89.7	156.0	<b>106.8</b>	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	

**	From bus	**	To bus	**	CKT	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
528554 COOPER_RNCH3	115	528582 BYRD	3	115	1	<b>157.5</b>	79.8	156.0	<b>101.0</b>	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528568 MONUMNT_TP	3	115	528582 BYRD	3	115	<b>168.4</b>	89.7	156.0	<b>107.9</b>	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1

**2022S ( Summer Peak ) without upgrades:**

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description			
527707 ARTESIA	3	115.0	526	1507	<b>0.8931</b>	1.0143	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1
527711 EAGLE_CREEK3	115.0	526	1507	<b>0.8939</b>	1.0148	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1	
527715 NAVAJO_2TP	3	115.0	526	1507	<b>0.8931</b>	1.0142	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1
527717 NAVAJO_2	3	115.0	526	1507	<b>0.8916</b>	1.0129	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1
527720 NAVAJO_3	3	115.0	526	1507	<b>0.8931</b>	1.0141	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1
527736 NAVAJO_5TP	3	115.0	526	1507	<b>0.8933</b>	1.0143	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1
527739 NAVAJO_4	3	115.0	526	1507	<b>0.8933</b>	1.0143	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1
527743 NAVAJO_5	3	115.0	526	1507	<b>0.8933</b>	1.0143	527711 EAGLE_CREEK3	115	527798 EDDY_CNTY	3 115 1
527828 CV-12MH	3	115.0	526	1507	<b>0.8900</b>	1.0365	527798 EDDY_CNTY	3	115 527828 CV-12MH	3 115 1
527950 LOCO_HILLS	115.0	526	1508	<b>0.8893</b>	0.9794	527798 EDDY_CNTY	3	115 527828 CV-12MH	3 115 1	
527950 LOCO_HILLS	115.0	526	1508	<b>0.8869</b>	0.9794	527828 CV-12MH	3	115 527950 LOCO_HILLS	115 1	
528334 LE-LOVINTON3	115.0	526	1508	<b>0.8805</b>	0.9702	527848 LEA_CNTY	3	115 528334 LE-LOVINTON3	115 1	
528317 ENRON_TP	3	115.0	526	1508	<b>0.8634</b>	0.9846	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1
528318 ENRON	3	115.0	526	1508	<b>0.8628</b>	0.9841	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1
528341 LE-SANANDRS3	115.0	526	1508	<b>0.7791</b>	0.9839	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1	
528348 BUCKEYE_TP	3	115.0	526	1508	<b>0.7813</b>	0.9916	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1
528385 BUCKEYE	3	115.0	526	1508	<b>0.7826</b>	0.9905	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1
528394 SW3H64_V84	3	115.0	526	1508	<b>0.8499</b>	0.9828	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1
528399 LEA_NATIONL3	115.0	526	1508	<b>0.8628</b>	0.9845	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1	
528406 MALJMAR1&2	3	115.0	526	1508	<b>0.8009</b>	0.9772	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1
528420 ZIA	3	115.0	526	1508	<b>0.8419</b>	0.9817	527864 CUNNINGHAM	3	115 528348 BUCKEYE_TP	3 115 1
528016 SAND_DUNES	3	115.0	526	1507	<b>0.8920</b>	0.9575	527864 CUNNINGHAM	3	115 528568 MONUMNT_TP	3 115 1
528023 POTASH_MINE	115.0	526	1507	<b>0.8455</b>	0.9297	527864 CUNNINGHAM	3	115 528568 MONUMNT_TP	3 115 1	

Bus #	Bus Name	kV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8607</b>	0.9402	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8707</b>	0.9530	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528232	OCHOA	3	115.0	526	<b>0.8310</b>	0.9248	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528505	LEA_ROAD	3	115.0	526	<b>0.8077</b>	0.9653	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528519	WARD	3	115.0	526	<b>0.8173</b>	0.9546	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528526	TEAGUE	3	115.0	526	<b>0.8615</b>	0.9574	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528540	WHITTEN	3	115.0	526	<b>0.8313</b>	0.9441	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528547	S_JAL	3	115.0	526	<b>0.8416</b>	0.9485	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528552	OIL_CENTER	3	115.0	526	<b>0.8047</b>	0.9727	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8030</b>	0.9776	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528561	DOLLARHIDE	3	115.0	526	<b>0.8390</b>	0.9461	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528568	MONUMNT_TP	3	115.0	526	<b>0.8007</b>	0.9991	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528582	BYRD	3	115.0	526	<b>0.8006</b>	0.9886	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8770</b>	0.9643	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528603	NA_ENRICH	3	115.0	526	<b>0.8971</b>	0.9739	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528605	TARGA	3	115.0	526	<b>0.8839</b>	0.9671	527864 CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
527914	MIDLAND	6	230.0	526	<b>0.1690</b>	0.9834	527894 HOBBS_INT 6 230 527914 MIDLAND 6 230 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8949</b>	0.9297	3Wnd: OPEN E\$0580 GE M100747 1
528232	OCHOA	3	115.0	526	<b>0.8938</b>	0.9248	3Wnd: OPEN E\$0580 GE M100747 1
527964	INTREPIDWEST	115.0	526	1507	<b>0.4671</b>	0.9984	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528009	WIPP	3	115.0	526	<b>0.4811</b>	0.9725	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528016	SAND_DUNES	3	115.0	526	<b>0.4847</b>	0.9575	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.4983</b>	0.9297	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.4940</b>	0.9402	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.4939</b>	0.9530	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528035	IMC_#1_TP	3	115.0	526	<b>0.4673</b>	0.9892	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528037	IMC_#1	3	115.0	526	<b>0.4662</b>	0.9883	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528232	OCHOA	3	115.0	526	<b>0.5397</b>	0.9248	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528505	LEA_ROAD	3	115.0	526	<b>0.8057</b>	0.9653	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528512	EUNICE	3	115.0	526	<b>0.8801</b>	0.9857	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528519	WARD	3	115.0	526	<b>0.7448</b>	0.9546	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528526	TEAGUE	3	115.0	526	<b>0.7550</b>	0.9574	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1

Bus #	Bus Name	kV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8789</b>	0.9841	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.6763</b>	0.9441 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7077</b>	0.9485 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8409</b>	0.9727 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8635</b>	0.9776	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7051</b>	0.9461 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8662</b>	0.9815 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7883</b>	0.9643 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8260</b>	0.9739 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8026</b>	0.9671 527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528009	WIPP	3	115.0	526	1507	<b>0.3262</b>	0.9725 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.3318</b>	0.9575 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.3523</b>	0.9297 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.3448</b>	0.9402 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.3391</b>	0.9530 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528035	IMC_#1_TP	3	115.0	526	1507	<b>0.3111</b>	0.9892 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528037	IMC_#1	3	115.0	526	1507	<b>0.3098</b>	0.9883 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.4131</b>	0.9248 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.7631</b>	0.9653 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8450</b>	0.9857 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.6877</b>	0.9546 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.6944</b>	0.9574 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8440</b>	0.9841 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.5977</b>	0.9441 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.6359</b>	0.9485 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8053</b>	0.9727 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8321</b>	0.9776 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.6324</b>	0.9461 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528582	BYRD	3	115.0	526	1508	<b>0.8843</b>	0.9886 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8285</b>	0.9815 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7347</b>	0.9643 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.7795</b>	0.9739 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1

Bus #	Bus Name	kV	Area	Zone	ContVolt	BaseVolt	Contingency Description	
528605	TARGA	3	115.0	526	1508	<b>0.7517</b>	0.9671 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528016	SAND_DUNES	3	115.0	526	1507	<b>0.4283</b>	0.9575 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528023	POTASH_MINE	115.0	526	1507	<b>0.4368</b>	0.9297 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.4333</b>	0.9402 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.4287</b>	0.9530 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.4863</b>	0.9248 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.7949</b>	0.9653 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8708</b>	0.9857 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7273</b>	0.9546 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7345</b>	0.9574 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8697</b>	0.9841 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6478</b>	0.9441 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.6820</b>	0.9485 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8330</b>	0.9727 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8573</b>	0.9776 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.6787</b>	0.9461 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8558</b>	0.9815 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7710</b>	0.9643 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8117</b>	0.9739 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.7864</b>	0.9671 528009 WIPIP	3 115 528016 SAND_DUNES 3 115 1
528009	WIPIP	3	115.0	526	1507	<b>0.4344</b>	0.9725 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.4321</b>	0.9575 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.4361</b>	0.9297 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.4339</b>	0.9402 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.4293</b>	0.9530 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.4832</b>	0.9248 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.7920</b>	0.9653 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8687</b>	0.9857 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7238</b>	0.9546 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7311</b>	0.9574 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8676</b>	0.9841 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6439</b>	0.9441 528009 WIPIP	3 115 528035 IMC_#1_TP 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528547	S_JAL	3	115.0	526	1508	<b>0.6782</b>	0.9485 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8306</b>	0.9727 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8551</b>	0.9776 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.6749</b>	0.9461 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8535</b>	0.9815 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.7679</b>	0.9643 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8089</b>	0.9739 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.7834</b>	0.9671 528009 WIPIP 3 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.5152</b>	0.9297 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.5145</b>	0.9402 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.5117</b>	0.9530 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.5558</b>	0.9248 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8209</b>	0.9653 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.8884</b>	0.9857 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7622</b>	0.9546 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7689</b>	0.9574 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.8871</b>	0.9841 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6939</b>	0.9441 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7233</b>	0.9485 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8544</b>	0.9727 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8757</b>	0.9776 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7202</b>	0.9461 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.8750</b>	0.9815 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8007</b>	0.9643 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8366</b>	0.9739 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8141</b>	0.9671 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.6029</b>	0.9297 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.6377</b>	0.9248 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8557</b>	0.9653 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8080</b>	0.9546 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8139</b>	0.9574 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.7524</b>	0.9441 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528547	S_JAL	3	115.0	526	1508	<b>0.7765</b>	0.9485 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8832</b>	0.9727 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7736</b>	0.9461 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8401</b>	0.9643 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8699</b>	0.9739 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8511</b>	0.9671 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528009	WIPP	3	115.0	526	1507	<b>0.8454</b>	0.9725 528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.8103</b>	0.9575 528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.7527</b>	0.9297 528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.7700</b>	0.9402 528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.7765</b>	0.9530 528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.7363</b>	0.9248 528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528009	WIPP	3	115.0	526	1507	<b>0.8062</b>	0.9725 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.7596</b>	0.9575 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.6779</b>	0.9297 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.7022</b>	0.9402 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.7059</b>	0.9530 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528037	IMC_#1	3	115.0	526	1507	<b>0.8997</b>	0.9883 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.6461</b>	0.9248 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.7732</b>	0.9653 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.4533</b>	0.9857 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7024</b>	0.9546 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.5130</b>	0.9574 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.4536</b>	0.9841 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.6242</b>	0.9441 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.5678</b>	0.9485 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8142</b>	0.9727 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8405</b>	0.9776 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.5642</b>	0.9461 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528582	BYRD	3	115.0	526	1508	<b>0.8929</b>	0.9886 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.4539</b>	0.9815 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.4841</b>	0.9643 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	

Bus #	Bus Name	KV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528603	NA_ENRICH_3	115.0	526	1508	<b>0.4637</b>	0.9739	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528605	TARGA_3	115.0	526	1508	<b>0.4734</b>	0.9671	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8944</b>	0.9297	528505 LEA_ROAD 3 115 528519 WARD 3 115 1
528232	OCHOA_3	115.0	526	1507	<b>0.8857</b>	0.9248	528505 LEA_ROAD 3 115 528519 WARD 3 115 1
528519	WARD_3	115.0	526	1508	<b>0.8943</b>	0.9546	528505 LEA_ROAD 3 115 528519 WARD 3 115 1
528540	WHITTEN_3	115.0	526	1508	<b>0.8956</b>	0.9441	528505 LEA_ROAD 3 115 528519 WARD 3 115 1
528561	DOLLARHIDE_3	115.0	526	1508	<b>0.8989</b>	0.9461	528505 LEA_ROAD 3 115 528519 WARD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8813</b>	0.9297	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8946</b>	0.9402	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528232	OCHOA_3	115.0	526	1507	<b>0.8705</b>	0.9248	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528505	LEA_ROAD_3	115.0	526	1508	<b>0.8678</b>	0.9653	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528519	WARD_3	115.0	526	1508	<b>0.8712</b>	0.9546	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528526	TEAGUE_3	115.0	526	1508	<b>0.8984</b>	0.9574	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528540	WHITTEN_3	115.0	526	1508	<b>0.8768</b>	0.9441	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528547	S_JAL_3	115.0	526	1508	<b>0.8839</b>	0.9485	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528561	DOLLARHIDE_3	115.0	526	1508	<b>0.8813</b>	0.9461	528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8963</b>	0.9297	528519 WARD 3 115 528540 WHITTEN 3 115 1
528232	OCHOA_3	115.0	526	1507	<b>0.88882</b>	0.9248	528519 WARD 3 115 528540 WHITTEN 3 115 1
528540	WHITTEN_3	115.0	526	1508	<b>0.8991</b>	0.9441	528519 WARD 3 115 528540 WHITTEN 3 115 1
528232	OCHOA_3	115.0	526	1507	<b>0.8981</b>	0.9248	528526 TEAGUE 3 115 528596 NA_ENRICHTP3 115 1
528009	WIPP_3	115.0	526	1507	<b>0.8426</b>	0.9725	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528016	SAND_DUNES_3	115.0	526	1507	<b>0.8022</b>	0.9575	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.7310</b>	0.9297	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.7527</b>	0.9402	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.7585</b>	0.9530	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528232	OCHOA_3	115.0	526	1507	<b>0.7036</b>	0.9248	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528505	LEA_ROAD_3	115.0	526	1508	<b>0.8096</b>	0.9653	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528519	WARD_3	115.0	526	1508	<b>0.7511</b>	0.9546	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528526	TEAGUE_3	115.0	526	1508	<b>0.6000</b>	0.9574	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528540	WHITTEN_3	115.0	526	1508	<b>0.6874</b>	0.9441	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528547	S_JAL_3	115.0	526	1508	<b>0.6427</b>	0.9485	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528552	OIL_CENTER_3	115.0	526	1508	<b>0.8440</b>	0.9727	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1

Bus #	Bus Name	kV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528054	COOPER_RNCH3	115.0	526	1508	<b>0.8661</b>	0.9776	528533 DRINKARD_TP 3 115 528589 DRINKARD 3 115 1
528561	DOLLARHIDE 3	115.0	526	1508	<b>0.6393</b>	0.9461	528533 DRINKARD_TP 3 115 528589 DRINKARD 3 115 1
528589	DRINKARD 3	115.0	526	1508	<b>0.5529</b>	0.9815	528533 DRINKARD_TP 3 115 528589 DRINKARD 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.5772</b>	0.9643	528533 DRINKARD_TP 3 115 528589 DRINKARD 3 115 1
528603	NA_ENRICH 3	115.0	526	1508	<b>0.5609</b>	0.9739	528533 DRINKARD_TP 3 115 528589 DRINKARD 3 115 1
528605	TARGA 3	115.0	526	1508	<b>0.5684</b>	0.9671	528533 DRINKARD_TP 3 115 528589 DRINKARD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8775</b>	0.9297	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8909</b>	0.9402	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528232	OCHOA 3	115.0	526	1507	<b>0.8664</b>	0.9248	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528505	LEA_ROAD 3	115.0	526	1508	<b>0.8620</b>	0.9653	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528519	WARD 3	115.0	526	1508	<b>0.8659</b>	0.9546	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528526	TEAGUE 3	115.0	526	1508	<b>0.8947</b>	0.9574	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528540	WHITTEN 3	115.0	526	1508	<b>0.8722</b>	0.9441	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528547	S_JAL 3	115.0	526	1508	<b>0.8797</b>	0.9485	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528552	OIL_CENTER 3	115.0	526	1508	<b>0.8617</b>	0.9727	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528561	DOLLARHIDE 3	115.0	526	1508	<b>0.8771</b>	0.9461	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8725</b>	0.9297	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8864</b>	0.9402	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8973</b>	0.9530	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528232	OCHOA 3	115.0	526	1507	<b>0.8604</b>	0.9248	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528505	LEA_ROAD 3	115.0	526	1508	<b>0.8510</b>	0.9653	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528519	WARD 3	115.0	526	1508	<b>0.8563</b>	0.9546	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528526	TEAGUE 3	115.0	526	1508	<b>0.8881</b>	0.9574	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528540	WHITTEN 3	115.0	526	1508	<b>0.8644</b>	0.9441	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528547	S_JAL 3	115.0	526	1508	<b>0.8723</b>	0.9485	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528552	OIL_CENTER 3	115.0	526	1508	<b>0.8500</b>	0.9727	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8496</b>	0.9776	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528561	DOLLARHIDE 3	115.0	526	1508	<b>0.8697</b>	0.9461	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528016	SAND_DUNES 3	115.0	526	1507	<b>0.8916</b>	0.9575	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8450</b>	0.9297	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8602</b>	0.9402	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8702</b>	0.9530	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVol	BaseVolt	Contingency Description
528232	OCHOA	3	115.0	526	1507	<b>0.8304</b>	0.9248 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8067</b>	0.9653 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8165</b>	0.9546 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8610</b>	0.9574 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8306</b>	0.9441 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8410</b>	0.9485 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8037</b>	0.9727 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8020</b>	0.9776 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8384</b>	0.9461 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528582	BYRD	3	115.0	526	1508	<b>0.7996</b>	0.9886 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8766</b>	0.9643 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8967</b>	0.9739 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8835</b>	0.9671 528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8656</b>	0.9297 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8806</b>	0.9402 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8913</b>	0.9530 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8505</b>	0.9248 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8783</b>	0.9546 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8270</b>	0.9574 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8509</b>	0.9441 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8373</b>	0.9485 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8346</b>	0.9461 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8225</b>	0.9643 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.8215</b>	0.9739 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.8207</b>	0.9671 528589 DRINKARD 3 115 528603 NA_ENRICH 3 115 1
528232	OCHOA	3	115.0	526	1507	<b>0.8971</b>	0.9248 528596 NA_ENRICHTP3 115 528605 TARGA 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8858</b>	0.9297 528603 NA_ENRICH 3 115 528605 TARGA 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8996</b>	0.9402 528603 NA_ENRICH 3 115 528605 TARGA 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8733</b>	0.9248 528603 NA_ENRICH 3 115 528605 TARGA 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.8587</b>	0.9574 528603 NA_ENRICH 3 115 528605 TARGA 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8790</b>	0.9441 528603 NA_ENRICH 3 115 528605 TARGA 3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.8680</b>	0.9485 528603 NA_ENRICH 3 115 528605 TARGA 3 115 1

Bus #	Bus Name	kV	Area	Zone	ContVol	BaseVolt	Contingency Description			
**	From bus	***	To bus	**	Ckt	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8655</b>	0.9461	528603	NA_ENRICH	3 115 528605 TARGA 3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.8536</b>	0.9643	528603	NA_ENRICH	3 115 528605 TARGA 3 115 1	
528605	TARGA	3	115.0	526	1508	<b>0.8514</b>	0.9671	528603	NA_ENRICH	3 115 528605 TARGA 3 115 1
527962	POTASH_JCT	3 115 527964	INTREPIDWEST	115 1	<b>166.5</b>	103.3	160.0	<b>104.1</b>	527864	CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528491	MONUMENT	3 115 528498	W_HOBBS	3 115 1	<b>159.5</b>	116.4	141.0	<b>113.1</b>	527864	CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528498	W_HOBBS	3 115 528533	DRINKARD_TP3	115 1	<b>173.7</b>	109.0	160.0	<b>108.6</b>	527864	CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
528533	DRINKARD_TP3	115 528589	DRINKARD	3 115 1	<b>161.5</b>	95.3	160.0	<b>100.9</b>	527864	CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1
527864	CUNNINGHAM	3 115 528568	MONUMNT_TP	3 115 1	<b>216.2</b>	104.4	160.0	<b>135.1</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528023	POTASH_MINE	115 528232	OCHOA	3 115 1	<b>215.3</b>	49.5	176.0	<b>122.3</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528232	OCHOA	3 115 528340	WHITTEN	3 115 1	<b>254.9</b>	68.8	141.0	<b>180.8</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528491	MONUMENT	3 115 528498	W_HOBBS	3 115 1	<b>163.3</b>	116.4	141.0	<b>115.8</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528498	W_HOBBS	3 115 528533	DRINKARD_TP3	115 1	<b>185.4</b>	109.0	160.0	<b>115.9</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528505	LEA_ROAD	3 115 528519	WARD	3 115 1	<b>187.3</b>	78.2	141.0	<b>132.8</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528505	LEA_ROAD	3 115 528552	OIL_CENTER	3 115 1	<b>198.5</b>	87.7	141.0	<b>140.8</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528519	WARD	3 115 528540	WHITTEN	3 115 1	<b>185.2</b>	76.5	141.0	<b>131.4</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528533	DRINKARD_TP3	115 528589	DRINKARD	3 115 1	<b>175.9</b>	95.3	160.0	<b>109.9</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528552	OIL_CENTER	3 115 528554	COOPER_RNCH3	115 1	<b>200.5</b>	89.8	141.0	<b>142.2</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528554	COOPER_RNCH3	115 528552	BYRD	3 115 1	<b>205.6</b>	94.3	141.0	<b>145.8</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528563	MONUMNT_TP	3 115 528582	BYRD	3 115 1	<b>216.7</b>	104.4	141.0	<b>153.7</b>	527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
527864	CUNNINGHAM	3 115 528568	MONUMNT_TP	3 115 1	<b>204.4</b>	104.4	160.0	<b>127.7</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528023	POTASH_MINE	115 528232	OCHOA	3 115 1	<b>195.7</b>	49.5	176.0	<b>111.2</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528232	OCHOA	3 115 528540	WHITTEN	3 115 1	<b>238.8</b>	68.8	141.0	<b>169.3</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528491	MONUMENT	3 115 528498	W_HOBBS	3 115 1	<b>155.9</b>	116.4	141.0	<b>110.5</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528498	W_HOBBS	3 115 528533	DRINKARD_TP3	115 1	<b>175.7</b>	109.0	160.0	<b>109.8</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528505	LEA_ROAD	3 115 528519	WARD	3 115 1	<b>176.5</b>	78.2	141.0	<b>125.1</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528505	LEA_ROAD	3 115 528552	OIL_CENTER	3 115 1	<b>188.1</b>	87.7	141.0	<b>133.4</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528519	WARD	3 115 528540	WHITTEN	3 115 1	<b>173.7</b>	76.5	141.0	<b>123.2</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528533	DRINKARD_TP3	115 528589	DRINKARD	3 115 1	<b>168.5</b>	95.3	160.0	<b>105.3</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528552	OIL_CENTER	3 115 528554	COOPER_RNCH3	115 1	<b>190.0</b>	89.8	141.0	<b>134.7</b>	527964	INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1

	<b>From bus</b>	<b>* * *</b>	<b>To bus</b>	<b>* * CKT</b>	<b>ContMVA</b>	<b>BaseFlow</b>	<b>Rating</b>	<b>Loading%</b>	<b>Contingency Description</b>
528554 COOPER_RNCH3	115	528582 BYRD	3	115	1	<b>194.4</b>	94.3	141.0	<b>137.9</b> 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528568 MONUMNT_TP	3	115	528582 BYRD	3	115	1	<b>204.8</b>	104.4	<b>145.3</b> 527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
527864 CUNNINGHAM	3	115	528568 MONUMNT_TP	3	115	1	<b>197.5</b>	104.4	<b>123.5</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528023 POTASH_MINE	115	528232 OCHOA	3	115	1	<b>179.7</b>	49.5	176.0	<b>102.1</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528232 OCHOA	3	115	528540 WHITTEN	3	115	1	<b>224.0</b>	68.8	<b>158.9</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528491 MONUMENT	3	115	528498 W_HOBBS	3	115	1	<b>153.1</b>	116.4	<b>108.5</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528498 W_HOBBS	3	115	528533 DRINKARD_TP3	115	1	<b>170.3</b>	109.0	160.0	<b>106.4</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528505 LEA_ROAD	3	115	528519 WARD	3	115	1	<b>168.6</b>	78.2	<b>119.6</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528505 LEA_ROAD	3	115	528552 OIL_CENTER	3	115	1	<b>180.3</b>	87.7	<b>127.9</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528519 WARD	3	115	528540 WHITTEN	3	115	1	<b>165.7</b>	76.5	<b>117.5</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528533 DRINKARD_TP3	115	528589 DRINKARD	3	115	1	<b>162.3</b>	95.3	160.0	<b>101.4</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528552 OIL_CENTER	3	115	528554 COOPER_RNCH3	115	1	<b>182.4</b>	89.8	141.0	<b>129.3</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528554 COOPER_RNCH3	115	528582 BYRD	3	115	1	<b>187.0</b>	94.3	141.0	<b>132.6</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528568 MONUMNT_TP	3	115	528582 BYRD	3	115	1	<b>197.7</b>	104.4	<b>140.2</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
527864 CUNNINGHAM	3	115	528568 MONUMNT_TP	3	115	1	<b>200.3</b>	104.4	<b>125.2</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528023 POTASH_MINE	115	528232 OCHOA	3	115	1	<b>184.0</b>	49.5	176.0	<b>104.5</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528232 OCHOA	3	115	528540 WHITTEN	3	115	1	<b>227.7</b>	68.8	<b>161.5</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528491 MONUMENT	3	115	528498 W_HOBBS	3	115	1	<b>154.4</b>	116.4	<b>109.5</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528498 W_HOBBS	3	115	528533 DRINKARD_TP3	115	1	<b>172.5</b>	109.0	160.0	<b>107.8</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528505 LEA_ROAD	3	115	528519 WARD	3	115	1	<b>171.2</b>	78.2	<b>141.0</b> <b>121.4</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528505 LEA_ROAD	3	115	528552 OIL_CENTER	3	115	1	<b>182.9</b>	87.7	<b>141.0</b> <b>129.7</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528519 WARD	3	115	528540 WHITTEN	3	115	1	<b>168.3</b>	76.5	<b>141.0</b> <b>119.4</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528533 DRINKARD_TP3	115	528589 DRINKARD	3	115	1	<b>164.5</b>	95.3	160.0	<b>102.8</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528552 OIL_CENTER	3	115	528554 COOPER_RNCH3	115	1	<b>185.0</b>	89.8	141.0	<b>131.2</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528554 COOPER_RNCH3	115	528582 BYRD	3	115	1	<b>189.7</b>	94.3	141.0	<b>134.5</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528568 MONUMNT_TP	3	115	528582 BYRD	3	115	1	<b>200.4</b>	104.4	<b>142.1</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
527864 CUNNINGHAM	3	115	528568 MONUMNT_TP	3	115	1	<b>185.4</b>	104.4	<b>115.9</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528232 OCHOA	3	115	528540 WHITTEN	3	115	1	<b>203.3</b>	68.8	<b>144.2</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528491 MONUMENT	3	115	528498 W_HOBBS	3	115	1	<b>148.5</b>	116.4	<b>142.1</b> 528009 WIPIP 3 115 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528498 W_HOBBS	3	115	528533 DRINKARD_TP3	115	1	<b>161.9</b>	109.0	160.0	<b>101.2</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528505 LEA_ROAD	3	115	528519 WARD	3	115	1	<b>156.4</b>	78.2	<b>141.0</b> <b>110.9</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528505 LEA_ROAD	3	115	528552 OIL_CENTER	3	115	1	<b>167.9</b>	87.7	<b>141.0</b> <b>119.1</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528519 WARD	3	115	528540 WHITTEN	3	115	1	<b>153.7</b>	76.5	<b>141.0</b> <b>109.0</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1

	<b>From bus</b>	<b>* * *</b>	<b>To bus</b>	<b>* * CKT</b>	<b>ContMVA</b>	<b>BaseFlow</b>	<b>Rating</b>	<b>Loading%</b>	<b>Contingency Description</b>
528552_OIL_CENTER	3	115	528554_COOPER_RNCH3	115	1	<b>170.1</b>	89.8	141.0	<b>120.6</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528554_COOPER_RNCH3	115	528582_BYRD	3	115	1	<b>174.8</b>	94.3	141.0	<b>123.9</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528568_MONUMNT_TP	3	115	528582_BYRD	3	115	<b>185.5</b>	104.4	141.0	<b>131.6</b> 528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
527864_CUNNINGHAM	3	115	528568_MONUMNT_TP	3	115	<b>164.2</b>	104.4	160.0	<b>102.6</b> 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528232_OCHOA	3	115	528540_WHITTEN	3	115	<b>169.9</b>	68.8	141.0	<b>120.5</b> 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528505_LEA_ROAD	3	115	528552_OIL_CENTER	3	115	<b>146.8</b>	87.7	141.0	<b>104.1</b> 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528552_OIL_CENTER	3	115	528554_COOPER_RNCH3	115	1	<b>148.9</b>	89.8	141.0	<b>105.6</b> 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528554_COOPER_RNCH3	115	528582_BYRD	3	115	1	<b>153.6</b>	94.3	141.0	<b>108.9</b> 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528568_MONUMNT_TP	3	115	528582_BYRD	3	115	<b>164.4</b>	104.4	141.0	<b>116.6</b> 528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
527962_POTASH_JCT	3	115	527964_INTREPIDWEST	115	1	<b>205.1</b>	103.3	160.0	<b>128.2</b> 528232_OCHOA 3 115 528540 WHITTEN 3 115 1
527964_INTREPIDWEST	115	528035_IMC_#1_TP	3	115	1	<b>192.6</b>	91.1	160.0	<b>120.4</b> 528232_OCHOA 3 115 528540 WHITTEN 3 115 1
528009_WIPP	3	115	528016_SAND_DUNES	3	115	<b>177.5</b>	77.0	160.0	<b>110.9</b> 528232_OCHOA 3 115 528540 WHITTEN 3 115 1
528009_WIPP	3	115	528035_IMC_#1_TP	3	115	<b>174.7</b>	76.2	160.0	<b>109.2</b> 528232_OCHOA 3 115 528540 WHITTEN 3 115 1
528491_MONUMENT	3	115	528498_W_HOBBS	3	115	<b>148.8</b>	116.4	141.0	<b>105.5</b> 528355_MADDOX 3 115 528463_SANGER_SW 3 115 1
528413_TAYLOR	3	115	528470_E_SANGER	3	115	<b>157.4</b>	46.8	141.0	<b>111.6</b> 528355_MADDOX 3 115 528490 WHITTEN 3 115 1
528491_MONUMENT	3	115	528498_W_HOBBS	3	115	<b>158.4</b>	116.4	141.0	<b>112.3</b> 528413_TAYLOR 3 115 528540 WHITTEN 3 115 1
528491_MONUMENT	3	115	528498_W_HOBBS	3	115	<b>142.5</b>	116.4	141.0	<b>101.1</b> 528449_W_BENDER 3 115 528575_OXYPERMITAN 3 115 1
528491_MONUMENT	3	115	528498_W_HOBBS	3	115	<b>148.8</b>	116.4	141.0	<b>105.5</b> 528463_SANGER_SW 3 115 528575_OXYPERMITAN 3 115 1
528413_TAYLOR	3	115	528470_E_SANGER	3	115	<b>146.4</b>	46.8	141.0	<b>103.8</b> 528491_MONUMENT 3 115 528498_W_HOBBS 3 115 1
527864_CUNNINGHAM	3	115	528568_MONUMNT_TP	3	115	<b>228.2</b>	104.4	160.0	<b>142.6</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
527962_POTASH_JCT	3	115	527964_INTREPIDWEST	115	1	<b>205.8</b>	103.3	160.0	<b>128.6</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
527964_INTREPIDWEST	115	528035_IMC_#1_TP	3	115	1	<b>193.9</b>	91.1	160.0	<b>121.2</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528009_WIPP	3	115	528016_SAND_DUNES	3	115	<b>182.0</b>	77.0	160.0	<b>113.8</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528009_WIPP	3	115	528035_IMC_#1_TP	3	115	<b>175.2</b>	76.2	160.0	<b>109.5</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528505_LEA_ROAD	3	115	528519_WARD	3	115	<b>197.7</b>	78.2	141.0	<b>140.2</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528505_LEA_ROAD	3	115	528552_OIL_CENTER	3	115	<b>210.1</b>	87.7	141.0	<b>149.0</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528519_WARD	3	115	528540_WHITTEN	3	115	<b>194.8</b>	76.5	141.0	<b>138.2</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528540_WHITTEN	3	115	528547_S_JAL	3	115	<b>176.6</b>	12.1	141.0	<b>125.3</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528552_OIL_CENTER	3	115	528554_COOPER_RNCH3	115	1	<b>212.3</b>	89.8	141.0	<b>150.6</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528554_COOPER_RNCH3	115	528582_BYRD	3	115	1	<b>217.2</b>	94.3	141.0	<b>154.1</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528568_MONUMNT_TP	3	115	528582_BYRD	3	115	<b>228.3</b>	104.4	141.0	<b>161.9</b> 528498_W_HOBBS 3 115 528533_DRINKARD_TP3 115 1
528491_MONUMENT	3	115	528498_W_HOBBS	3	115	<b>146.3</b>	116.4	141.0	<b>103.8</b> 528505_LEA_ROAD 3 115 528519_WARD 3 115 1
528491_MONUMENT	3	115	528498_W_HOBBS	3	115	<b>150.6</b>	116.4	141.0	<b>106.8</b> 528505_LEA_ROAD 3 115 528552_OIL_CENTER 3 115 1

	<b>From bus</b>	<b>* * *</b>	<b>To bus</b>	<b>* * CKT</b>	<b>ContMVA</b>	<b>BaseFlow</b>	<b>Rating</b>	<b>Loading%</b>	<b>Contingency Description</b>
528491	MONUMENT	3 115	528498 W_HOBBS	3 115 1	<b>145.6</b>	116.4	141.0	<b>103.3</b>	528519 WARD
527864	CUNNINGHAM	3 115	528568 MONUMNT_TF	3 115 1	<b>210.5</b>	104.4	160.0	<b>131.5</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
527962	POTASH_JCT	3 115	527964 INTREPIDWEST	115 1	<b>188.7</b>	103.3	160.0	<b>118.0</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
527964	INTREPIDWEST	115	528035 IMC #1 TP	3 115 1	<b>176.8</b>	91.1	160.0	<b>110.5</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528009	WIPP	3 115	528016 SAND_DUNES	3 115 1	<b>164.9</b>	77.0	160.0	<b>103.1</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528505	LEA_ROAD	3 115	528519 WARD	3 115 1	<b>180.5</b>	78.2	141.0	<b>128.0</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528505	LEA_ROAD	3 115	528552 OIL_CENTER	3 115 1	<b>192.4</b>	87.7	141.0	<b>136.4</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528519	WARD	3 115	528540 WHITTEN	3 115 1	<b>177.9</b>	76.5	141.0	<b>126.2</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528540	WHITTEN	3 115	528547 S_JAL	3 115 1	<b>154.8</b>	12.1	141.0	<b>109.8</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528552	OIL_CENTER	3 115	528554 COOPER_RNCH3	115 1	<b>194.6</b>	89.8	141.0	<b>138.0</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528554	COOPER_RNCH3	115	528582 BYRD	3 115 1	<b>199.5</b>	94.3	141.0	<b>141.5</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528568	MONUMNT_TP	3 115	528582 BYRD	3 115 1	<b>210.6</b>	104.4	141.0	<b>149.3</b>	528533 DRINKARD_TP3 115 528589 DRINKARD
528491	MONUMENT	3 115	528498 W_HOBBS	3 115 1	<b>151.7</b>	116.4	141.0	<b>107.6</b>	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3
528498	W_HOBBS	3 115	528533 DRINKARD_TP3	115 1	<b>161.5</b>	109.0	160.0	<b>100.9</b>	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3
528491	MONUMENT	3 115	528498 W_HOBBS	3 115 1	<b>153.7</b>	116.4	141.0	<b>109.0</b>	528554 COOPER_RNCH3 115 528582 BYRD
528498	W_HOBBS	3 115	528533 DRINKARD_TP3	115 1	<b>164.6</b>	109.0	160.0	<b>102.9</b>	528554 COOPER_RNCH3 115 528582 BYRD
527962	POTASH_JCT	3 115	527964 INTREPIDWEST	115 1	<b>166.6</b>	103.3	160.0	<b>104.1</b>	528568 MONUMNT_TP 3 115 528582 BYRD
528491	MONUMENT	3 115	528498 W_HOBBS	3 115 1	<b>159.5</b>	116.4	141.0	<b>113.1</b>	528568 MONUMNT_TP 3 115 528582 BYRD
528498	W_HOBBS	3 115	528533 DRINKARD_TP3	115 1	<b>173.7</b>	109.0	160.0	<b>108.6</b>	528568 MONUMNT_TP 3 115 528582 BYRD
528533	DRINKARD_TP3	115	528589 DRINKARD	3 115 1	<b>161.6</b>	95.3	160.0	<b>101.0</b>	528568 MONUMNT_TP 3 115 528582 BYRD
527864	CUNNINGHAM	3 115	528568 MONUMNT_TF	3 115 1	<b>164.0</b>	104.4	160.0	<b>102.5</b>	528589 DRINKARD 3 115 528603 NA_ENRICH
528505	LEA_ROAD	3 115	528552 OIL_CENTER	3 115 1	<b>146.4</b>	87.7	141.0	<b>103.8</b>	528589 DRINKARD 3 115 528603 NA_ENRICH
528552	OIL_CENTER	3 115	528554 COOPER_RNCH3	115 1	<b>148.6</b>	89.8	141.0	<b>105.4</b>	528589 DRINKARD 3 115 528603 NA_ENRICH
528554	COOPER_RNCH3	115	528582 BYRD	3 115 1	<b>153.3</b>	94.3	141.0	<b>108.8</b>	528589 DRINKARD 3 115 528603 NA_ENRICH
528568	MONUMNT_TP	3 115	528582 BYRD	3 115 1	<b>164.0</b>	104.4	141.0	<b>116.3</b>	528589 DRINKARD 3 115 528603 NA_ENRICH
527962	POTASH_JCT	3 115	B\$0580 GE	M1007471.00 1	<b>174.3</b>	117.2	173.0	<b>100.7</b>	528498 W_HOBBS 3 115 528533 DRINKARD_TP3
527963	POTASH_JCT	6 230	B\$0580 GE	M1007471.00 1	<b>177.5</b>	117.9	173.0	<b>102.6</b>	528498 W_HOBBS 3 115 528533 DRINKARD_TP3

**2022W (Winter Peak) without upgrades:**

Bus #	Bus Name	KV	Area	Zone	ContVolt	Basevolt	Contingency Description
528023	POTASH_MINE	115.0	526	1507	<b>0.8748</b>	0.9390	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8884</b>	0.9488	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8995</b>	0.9619	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528232	OCHOA 3	115.0	526	1507	<b>0.8633</b>	0.9357	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528505	LEA_ROAD 3	115.0	526	1508	<b>0.8416</b>	0.9715	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528519	WARD 3	115.0	526	1508	<b>0.8503</b>	0.9622	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528526	TEAGUE 3	115.0	526	1508	<b>0.8901</b>	0.9664	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528540	WHITTEN 3	115.0	526	1508	<b>0.8626</b>	0.9526	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528547	S_JTAL 3	115.0	526	1508	<b>0.8709</b>	0.9558	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528552	OIL_CENTER 3	115.0	526	1508	<b>0.8389</b>	0.9783	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8375</b>	0.9827	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528561	DOLLAHIDE 3	115.0	526	1508	<b>0.8683</b>	0.9535	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528568	MONTMNT_TP 3	115.0	526	1508	<b>0.8353</b>	1.0019	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
528582	BYRD 3	115.0	526	1508	<b>0.8352</b>	0.9924	527864 CUNNINGHAM 3 115 528568 MONTMNT_TP 3 115 1
527964	INTREPIDWEST	115.0	526	1507	<b>0.6762</b>	0.9981	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528009	WIPP 3	115.0	526	1507	<b>0.6842</b>	0.9778	527962 POTASH_JCT 3 115 528568 MONTMNT_TP 3 115 1
528016	SAND_DUNES 3	115.0	526	1507	<b>0.6830</b>	0.9642	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528023	POTASH_MINE 115.0	526	1507	<b>0.6843</b>	0.9390	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.6848</b>	0.9488	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.6906</b>	0.9619	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528035	IMC_#1_TP 3	115.0	526	1507	<b>0.6753</b>	0.9903	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528037	IMC_#1 3	115.0	526	1507	<b>0.6744</b>	0.9894	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528232	OCHOA 3	115.0	526	1507	<b>0.7088</b>	0.9357	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528505	LEA_ROAD 3	115.0	526	1508	<b>0.8757</b>	0.9715	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528519	WARD 3	115.0	526	1508	<b>0.8374</b>	0.9622	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528526	TEAGUE 3	115.0	526	1508	<b>0.8472</b>	0.9664	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528540	WHITTEN 3	115.0	526	1508	<b>0.7945</b>	0.9526	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528547	S_JTAL 3	115.0	526	1508	<b>0.8142</b>	0.9558	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528552	OIL_CENTER 3	115.0	526	1508	<b>0.8984</b>	0.9783	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1

Bus #	Bus Name	kV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8117</b>	0.9535	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528596 NA_ENRICHTP3		115.0	526	1508	<b>0.8703</b>	0.9740	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528603 NA_ENRICH	3	115.0	526	1508	<b>0.8972</b>	0.9843	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528605 TARGA	3	115.0	526	1508	<b>0.8802</b>	0.9771	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528009 WIPP	3	115.0	526	1507	<b>0.6895</b>	0.9778	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528016 SAND_DUNES	3	115.0	526	1507	<b>0.6879</b>	0.9642	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528023 POTASH_MINE		115.0	526	1507	<b>0.6881</b>	0.9390	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528024 REDBLFF_TAP3		115.0	526	1507	<b>0.6890</b>	0.9488	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528027 REDBLFF_LD3		115.0	526	1507	<b>0.6947</b>	0.9619	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528035 IMC_#1_TP	3	115.0	526	1507	<b>0.6810</b>	0.9903	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528037 IMC_#1	3	115.0	526	1507	<b>0.6800</b>	0.9894	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528232 OCHOA	3	115.0	526	1507	<b>0.7119</b>	0.9357	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8768</b>	0.9715	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528519 WARD	3	115.0	526	1508	<b>0.8388</b>	0.9622	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.8485</b>	0.9664	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.7964</b>	0.9526	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.8158</b>	0.9558	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8993</b>	0.9783	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8134</b>	0.9535	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528596 NA_ENRICHTP3		115.0	526	1508	<b>0.8713</b>	0.9740	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528603 NA_ENRICH	3	115.0	526	1508	<b>0.8979</b>	0.9843	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528605 TARGA	3	115.0	526	1508	<b>0.8811</b>	0.9771	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1
528016 SAND_DUNES	3	115.0	526	1507	<b>0.4586</b>	0.9642	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528023 POTASH_MINE		115.0	526	1507	<b>0.4671</b>	0.9390	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528024 REDBLFF_TAP3		115.0	526	1507	<b>0.4637</b>	0.9488	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528027 REDBLFF_LD3		115.0	526	1507	<b>0.4597</b>	0.9619	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528232 OCHOA	3	115.0	526	1507	<b>0.5162</b>	0.9357	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8044</b>	0.9715	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528512 EUNICE	3	115.0	526	1508	<b>0.8840</b>	0.9964	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528519 WARD	3	115.0	526	1508	<b>0.7420</b>	0.9622	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.7520</b>	0.9664	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528533 DRINKARD_TP3		115.0	526	1508	<b>0.8825</b>	0.9946	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528540 WHITTEN	3	115.0	526	1508	<b>0.6679</b>	0.9526	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.7003</b>	0.9558	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8399</b>	0.9783	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528554 COOPER_RNCH3	115.0	526	1508	<b>0.8624</b>	0.9827	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.6971</b>	0.9535	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528589 DRINKARD	3	115.0	526	1508	<b>0.8698</b>	0.9924	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528596 NA_ENRICHTP3	115.0	526	1508	<b>0.7875</b>	0.9740	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1	
528603 NA_ENRICH	3	115.0	526	1508	<b>0.8272</b>	0.9843	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528605 TARGA	3	115.0	526	1508	<b>0.8025</b>	0.9771	528009 WIPIP 3 115 528016 SAND_DUNES 3 115 1
528009 WIPIP	3	115.0	526	1507	<b>0.4779</b>	0.9778	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528016 SAND_DUNES	3	115.0	526	1507	<b>0.4746</b>	0.9642	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528023 POTASH_MINE	115.0	526	1507	<b>0.4766</b>	0.9390	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1	
528024 REDBLFF_TAP3	115.0	526	1507	<b>0.4752</b>	0.9488	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1	
528027 REDBLFF_LD3	115.0	526	1507	<b>0.4715</b>	0.9619	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1	
528232 OCHOA	3	115.0	526	1507	<b>0.5215</b>	0.9357	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8043</b>	0.9715	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528512 EUNICE	3	115.0	526	1508	<b>0.8837</b>	0.9964	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528519 WARD	3	115.0	526	1508	<b>0.7422</b>	0.9622	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.7522</b>	0.9664	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528533 DRINKARD_TP3	115.0	526	1508	<b>0.8822</b>	0.9946	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1	
528540 WHITTEN	3	115.0	526	1508	<b>0.6690</b>	0.9526	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.7011</b>	0.9558	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8396</b>	0.9783	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528554 COOPER_RNCH3	115.0	526	1508	<b>0.8620</b>	0.9827	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1	
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.6978</b>	0.9535	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528589 DRINKARD	3	115.0	526	1508	<b>0.8695</b>	0.9924	528009 WIPIP 3 115 528016 IMC_#1_TP 3 115 1
528596 NA_ENRICHTP3	115.0	526	1508	<b>0.7875</b>	0.9740	528009 WIPIP 3 115 528016 REDBLFF_TAP3 115 1	
528603 NA_ENRICH	3	115.0	526	1508	<b>0.8270</b>	0.9843	528009 WIPIP 3 115 528016 REDBLFF_TAP3 115 1
528605 TARGA	3	115.0	526	1508	<b>0.8024</b>	0.9771	528009 WIPIP 3 115 528016 REDBLFF_TAP3 115 1
528023 POTASH_MINE	115.0	526	1507	<b>0.5560</b>	0.9390	528016 SAND_DUNES 3 115 528016 REDBLFF_TAP3 115 1	
528024 REDBLFF_TAP3	115.0	526	1507	<b>0.5555</b>	0.9488	528016 SAND_DUNES 3 115 528016 REDBLFF_TAP3 115 1	
528027 REDBLFF_LD3	115.0	526	1507	<b>0.5539</b>	0.9619	528016 SAND_DUNES 3 115 528016 REDBLFF_TAP3 115 1	

Bus #	Bus Name	KV	Area	Zone	ContVolt	BaseVolt	Contingency Description
528232 OCHOA	3	115.0	526	1507	<b>0.5950</b>	0.9357	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8342</b>	0.9715	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528519 WARD	3	115.0	526	1508	<b>0.7818</b>	0.9622	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.7909</b>	0.9664	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.7202</b>	0.9526	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.7471</b>	0.9558	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8643</b>	0.9783	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528554 COOPER_RNCH3	115.0	526	1508	<b>0.8835</b>	0.9827	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.7441</b>	0.9535	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528589 DRINKARD	3	115.0	526	1508	<b>0.8915</b>	0.9924	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528596 NA_ENRICHTP3	115.0	526	1508	<b>0.8211</b>	0.9740	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1	
528603 NA_ENRICH	3	115.0	526	1508	<b>0.8553</b>	0.9843	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528605 TARGA	3	115.0	526	1508	<b>0.8338</b>	0.9771	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP3 115 1
528023 POTASH_MINE	115.0	526	1507	<b>0.6493</b>	0.9390	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1	
528232 OCHOA	3	115.0	526	1507	<b>0.6825</b>	0.9357	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8730</b>	0.9715	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528519 WARD	3	115.0	526	1508	<b>0.8319</b>	0.9622	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.8400</b>	0.9664	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.7835</b>	0.9526	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.8046</b>	0.9558	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8969</b>	0.9783	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8018</b>	0.9535	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528596 NA_ENRICHTP3	115.0	526	1508	<b>0.8644</b>	0.9740	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1	
528603 NA_ENRICH	3	115.0	526	1508	<b>0.8924</b>	0.9843	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528605 TARGA	3	115.0	526	1508	<b>0.8747</b>	0.9771	528023 POTASH_MINE 115 528024 REDBLFF_TAP3 115 1
528016 SAND_DUNES	3	115.0	526	1507	<b>0.8864</b>	0.9642	528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528023 POTASH_MINE	115.0	526	1507	<b>0.8432</b>	0.9390	528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528024 REDBLFF_TAP3	115.0	526	1507	<b>0.8571</b>	0.9488	528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528027 REDBLFF_LD3	115.0	526	1507	<b>0.8670</b>	0.9619	528232 OCHOA 3 115 528540 WHITTEN 3 115 1	
528232 OCHOA	3	115.0	526	1507	<b>0.8321</b>	0.9357	528232 OCHOA 3 115 528540 WHITTEN 3 115 1
528009 WIPP	3	115.0	526	1507	<b>0.8765</b>	0.9778	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528016 SAND_DUNES	3	115.0	526	1507	<b>0.8434</b>	0.9642	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1

Bus #	Bus Name	kV	Area	Zone	ContVolts	BaseVolt	Contingency Description
528023	POTASH_MINE	115.0	526	1507	<b>0.7851</b>	0.9390	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8034</b>	0.9488	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8113</b>	0.9619	528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528232	OCHOA	3	115.0	526	<b>1507</b>	<b>0.7645</b>	0.9357 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8451</b>	0.9715 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528512	EUNICE	3	115.0	526	1508	<b>0.6677</b>	0.9964 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528519	WARD	3	115.0	526	1508	<b>0.7993</b>	0.9622 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.6897</b>	0.9664 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528533	DRINKARD_TP3	115.0	526	1508	<b>0.6670</b>	0.9946 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528540	WHITTEN	3	115.0	526	1508	<b>0.7508</b>	0.9526 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528547	S_JAL	3	115.0	526	1508	<b>0.7176</b>	0.9558 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528552	OIL_CENTER	3	115.0	526	1508	<b>0.8726</b>	0.9783 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528554	COOPER_RNCH3	115.0	526	1508	<b>0.8905</b>	0.9827 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.7144</b>	0.9535 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528589	DRINKARD	3	115.0	526	1508	<b>0.6665</b>	0.9924 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528596	NA_ENRICHTP3	115.0	526	1508	<b>0.6759</b>	0.9740 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1	
528603	NA_ENRICH	3	115.0	526	1508	<b>0.6682</b>	0.9843 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528605	TARGA	3	115.0	526	1508	<b>0.6708</b>	0.9771 528498 W_HOBBS 3 115 528533 DRINKARD_TP3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8985</b>	0.9390 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8902</b>	0.9357 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8868</b>	0.9715 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8902</b>	0.9622 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528540	WHITTEN	3	115.0	526	1508	<b>0.8952</b>	0.9526 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528561	DOLLARHIDE	3	115.0	526	1508	<b>0.8985</b>	0.9535 528505 LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1
528016	SAND_DUNES	3	115.0	526	1507	<b>0.8873</b>	0.9642 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528023	POTASH_MINE	115.0	526	1507	<b>0.8376</b>	0.9390 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528024	REDBLFF_TAP3	115.0	526	1507	<b>0.8538</b>	0.9488 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528027	REDBLFF_LD3	115.0	526	1507	<b>0.8635</b>	0.9619 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1	
528232	OCHOA	3	115.0	526	1507	<b>0.8205</b>	0.9357 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528505	LEA_ROAD	3	115.0	526	1508	<b>0.8819</b>	0.9715 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528519	WARD	3	115.0	526	1508	<b>0.8475</b>	0.9622 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528526	TEAGUE	3	115.0	526	1508	<b>0.7697</b>	0.9664 528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1

Bus #	Bus Name	KV	Area	Zone	ContVol	BaseVolt	Contingency Description
528540 WHITTEN	3	115.0	526	1508	<b>0.8117</b>	0.9526	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.7882</b>	0.9558	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.7854</b>	0.9535	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528589 DRINKARD	3	115.0	526	1508	<b>0.7534</b>	0.9924	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528596 NA_ENRICHTP3	115.0	526	1508		<b>0.7603</b>	0.9740	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528603 NA_ENRICH	3	115.0	526	1508	<b>0.7554</b>	0.9843	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528605 TARGA	3	115.0	526	1508	<b>0.7567</b>	0.9771	528533 DRINKARD_TP3 115 528589 DRINKARD 3 115 1
528023 POTASH_MINE	115.0	526	1507		<b>0.8955</b>	0.9390	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528232 OCHOA	3	115.0	526	1507	<b>0.8870</b>	0.9357	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8820</b>	0.9715	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528519 WARD	3	115.0	526	1508	<b>0.8858</b>	0.9622	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.8915</b>	0.9526	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.8976</b>	0.9558	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8817</b>	0.9783	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8951</b>	0.9535	528552 OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1
528023 POTASH_MINE	115.0	526	1507		<b>0.8925</b>	0.9390	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528232 OCCHOA	3	115.0	526	1507	<b>0.8834</b>	0.9357	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8751</b>	0.9715	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528519 WARD	3	115.0	526	1508	<b>0.8799</b>	0.9622	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.8868</b>	0.9526	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.8931</b>	0.9558	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8744</b>	0.9783	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528554 COOPER_RNCH3	115.0	526	1508		<b>0.8741</b>	0.9827	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8906</b>	0.9535	528554 COOPER_RNCH3 115 528582 BYRD 3 115 1
528023 POTASH_MINE	115.0	526	1507		<b>0.8744</b>	0.9390	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528024 REDBLFF_TAP3	115.0	526	1507		<b>0.8880</b>	0.9488	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528027 REDBLFF_LD3	115.0	526	1507		<b>0.8990</b>	0.9619	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528232 OCHOA	3	115.0	526	1507	<b>0.8628</b>	0.9357	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528505 LEA_ROAD	3	115.0	526	1508	<b>0.8407</b>	0.9715	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528519 WARD	3	115.0	526	1508	<b>0.8496</b>	0.9622	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.8897</b>	0.9664	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.8620</b>	0.9526	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1

Bus #	Bus Name	kV	Area	Zone	ContVolt	BaseVolt	Contingency Description	
528547 S_JAL	3	115.0	526	1508	<b>0.8704</b>	0.9558	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528552 OIL_CENTER	3	115.0	526	1508	<b>0.8380</b>	0.9783	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528554 COOPER_RNCH3	115.0	526	1508	<b>0.8365</b>	0.9827	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1		
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8678</b>	0.9535	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528582 BYRD	3	115.0	526	1508	<b>0.8342</b>	0.9924	528568 MONUMNT_TP 3 115 528582 BYRD 3 115 1	
528023 POTASH_MINE	115.0	526	1507	<b>0.8781</b>	0.9390	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1	
528024 REDBLFF_TAP3	115.0	526	1507	<b>0.8922</b>	0.9488	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1	
528232 OCHOA	3	115.0	526	1507	<b>0.8650</b>	0.9357	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528519 WARD	3	115.0	526	1508	<b>0.8883</b>	0.9622	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.8398</b>	0.9664	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.8629</b>	0.9526	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.8488</b>	0.9558	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8461</b>	0.9535	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528596 NA_ENRICHTP3	115.0	526	1508	<b>0.8357</b>	0.9740	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1	
528603 NA_ENRICH	3	115.0	526	1508	<b>0.8350</b>	0.9843	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528605 TARGA	3	115.0	526	1508	<b>0.8341</b>	0.9771	528589 DRINKARD	3 115 528603 NA_ENRICH 3 115 1
528023 POTASH_MINE	115.0	526	1507	<b>0.8944</b>	0.9390	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1	
528232 OCHOA	3	115.0	526	1507	<b>0.8835</b>	0.9357	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1
528526 TEAGUE	3	115.0	526	1508	<b>0.8652</b>	0.9664	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1
528540 WHITTEN	3	115.0	526	1508	<b>0.8864</b>	0.9526	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1
528547 S_JAL	3	115.0	526	1508	<b>0.8740</b>	0.9558	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1
528561 DOLLARHIDE	3	115.0	526	1508	<b>0.8714</b>	0.9535	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1
528596 NA_ENRICHTP3	115.0	526	1508	<b>0.8602</b>	0.9740	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1	
528605 TARGA	3	115.0	526	1508	<b>0.8581</b>	0.9771	528603 NA_ENRICH	3 115 528605 TARGA 3 115 1

** From bus	** **	To bus	** CKT	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
527864 CUNNINGHAM	3 115	528568 MONUMNT_TP	3 115 1	<b>192.0</b>	96.7	177.0	<b>108.5</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1
528023 POTASH_MINE	115 528232 OCHOA	3 115 1	<b>203.6</b>	51.6	191.0	<b>106.6</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528232 OCHOA	3 115 528540 WHITTEN	3 115 1	<b>231.4</b>	68.5	156.0	<b>148.3</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	

** From bus	** **	To bus	** CKT	ContMVA	BaseFlow	Rating	Loading%	Contingency Description
528505 LEA_ROAD	3 115 528519 WARD	3 115 1	<b>167.0</b>	72.0	156.0	<b>107.1</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1	<b>177.4</b>	81.4	156.0	<b>113.7</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528519 WARD	3 115 528540 WHITTEN	3 115 1	<b>166.1</b>	70.8	156.0	<b>106.4</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115 1	<b>179.2</b>	83.5	156.0	<b>114.9</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528554 COOPER_RNCH3	115 528582 BYRD	3 115 1	<b>182.1</b>	86.6	156.0	<b>116.8</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1	<b>192.5</b>	96.7	156.0	<b>123.4</b>	527962 POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	
527764 CUNNINGHAM	3 115 528568 MONUMNT_TP	3 115 1	<b>180.7</b>	96.7	177.0	<b>102.1</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528232 OCHOA	3 115 528540 WHITTEN	3 115 1	<b>209.5</b>	68.5	156.0	<b>134.3</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1	<b>165.3</b>	81.4	156.0	<b>105.9</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115 1	<b>167.3</b>	83.5	156.0	<b>107.2</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528554 COOPER_RNCH3	115 528582 BYRD	3 115 1	<b>170.4</b>	86.6	156.0	<b>109.2</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1	<b>181.0</b>	96.7	156.0	<b>116.0</b>	527964 INTREPIDWEST 115 528035 IMC_#1_TP 3 115 1	
527764 CUNNINGHAM	3 115 528568 MONUMNT_TP	3 115 1	<b>186.2</b>	96.7	177.0	<b>105.2</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528232 OCHOA	3 115 528540 WHITTEN	3 115 1	<b>217.4</b>	68.5	156.0	<b>139.4</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528505 LEA_ROAD	3 115 528519 WARD	3 115 1	<b>158.7</b>	72.0	156.0	<b>101.7</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1	<b>170.3</b>	81.4	156.0	<b>109.2</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528519 WARD	3 115 528540 WHITTEN	3 115 1	<b>156.8</b>	70.8	156.0	<b>100.5</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115 1	<b>172.4</b>	83.5	156.0	<b>110.5</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528554 COOPER_RNCH3	115 528582 BYRD	3 115 1	<b>175.6</b>	86.6	156.0	<b>112.6</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1	<b>186.4</b>	96.7	156.0	<b>119.5</b>	528009 WIPP 3 115 528016 SAND_DUNES 3 115 1	
527764 CUNNINGHAM	3 115 528568 MONUMNT_TP	3 115 1	<b>188.3</b>	96.7	177.0	<b>106.4</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528232 OCHOA	3 115 528540 WHITTEN	3 115 1	<b>219.9</b>	68.5	156.0	<b>140.9</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD	3 115 528519 WARD	3 115 1	<b>160.6</b>	72.0	156.0	<b>103.0</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1	<b>172.3</b>	81.4	156.0	<b>110.4</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528519 WARD	3 115 528540 WHITTEN	3 115 1	<b>158.7</b>	70.8	156.0	<b>101.7</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115 1	<b>174.4</b>	83.5	156.0	<b>111.8</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528554 COOPER_RNCH3	115 528582 BYRD	3 115 1	<b>177.7</b>	86.6	156.0	<b>113.9</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528568 MONUMNT_TP	3 115 528582 BYRD	3 115 1	<b>188.5</b>	96.7	156.0	<b>120.8</b>	528009 WIPP 3 115 528035 IMC_#1_TP 3 115 1	
528232 OCHOA	3 115 528540 WHITTEN	3 115 1	<b>193.3</b>	68.5	156.0	<b>123.9</b>	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP 3 115 1	
528505 LEA_ROAD	3 115 528552 OIL_CENTER	3 115 1	<b>156.0</b>	81.4	156.0	<b>100.0</b>	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP 3 115 1	
528552 OIL_CENTER	3 115 528554 COOPER_RNCH3	115 1	<b>158.1</b>	83.5	156.0	<b>101.4</b>	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP 3 115 1	
528554 COOPER_RNCH3	115 528582 BYRD	3 115 1	<b>161.4</b>	86.6	156.0	<b>103.5</b>	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP 3 115 1	

	<b>* From bus</b>	<b>** To bus</b>	<b>* CKT</b>	<b>ContMVA</b>	<b>BaseFlow</b>	<b>Rating</b>	<b>Loading%</b>	<b>Contingency Description</b>
528568	MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>172.3</b>	96.7	156.0	<b>110.4</b>	528016 SAND_DUNES 3 115 528024 REDBLFF_TAP 3 115 1	
528232	OCHOA 3 115 528540 WHITTEN	3 115 1	<b>156.2</b>	68.5	156.0	<b>100.1</b>	528023 POTASH_MINE 3 115 528024 REDBLFF_TAP 3 115 1	
527962	POTASH_JCT 3 115 527964 INTREPIDWEST 115 1	<b>179.9</b>	97.8	177.0	<b>101.7</b>	528232 OCCHOA	3 115 528540 WHITTEN	3 115 1
527864	CUNNINGHAM 3 115 528568 MONUMNT_TP 3 115 1	<b>194.1</b>	96.7	177.0	<b>109.6</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP 3 115 1	
528505	LEA_ROAD 3 115 528519 WARD	3 115 1	<b>166.0</b>	72.0	156.0	<b>106.4</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP 3 115 1
528505	LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1	<b>177.5</b>	81.4	156.0	<b>113.8</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP 3 115 1	
528519	WARD 3 115 528540 WHITTEN	3 115 1	<b>164.4</b>	70.8	156.0	<b>105.4</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP 3 115 1
528552	OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1	<b>179.7</b>	83.5	156.0	<b>115.2</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP 3 115 1	
528554	COOPER_RNCH3 115 528582 BYRD	3 115 1	<b>183.1</b>	86.6	156.0	<b>117.4</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP 3 115 1
528568	MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>194.2</b>	96.7	156.0	<b>124.5</b>	528498 W_HOBBS	3 115 528533 DRINKARD_TP 3 115 1
528505	LEA_ROAD 3 115 528552 OIL_CENTER 3 115 1	<b>157.7</b>	81.4	156.0	<b>101.1</b>	528533 DRINKARD_TP 3 115 528589 DRINKARD	3 115 1	
528552	OIL_CENTER 3 115 528554 COOPER_RNCH3 115 1	<b>159.9</b>	83.5	156.0	<b>102.5</b>	528533 DRINKARD_TP 3 115 528589 DRINKARD	3 115 1	
528554	COOPER_RNCH3 115 528582 BYRD	3 115 1	<b>163.3</b>	86.6	156.0	<b>104.7</b>	528533 DRINKARD_TP 3 115 528589 DRINKARD	3 115 1
528568	MONUMNT_TP 3 115 528582 BYRD	3 115 1	<b>174.1</b>	96.7	156.0	<b>111.6</b>	528533 DRINKARD_TP 3 115 528589 DRINKARD	3 115 1

*– END OF REPORT –*