

Definitive Interconnection System Impact Re-Study for Generation Interconnection Requests

Southwest Power Pool
Engineering Department
Generator Interconnection

(DISIS-2009-001-6 Study)
November 2013



SPP RESTRICTED

Definitive Interconnection System Impact Study for Generation Interconnection Requests

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Engineering Department
Tariff Studies – Generation Interconnection

(DISIS-2009-001-6 Study)

Date	Rev.	Comment
November 2013	0	Restudy

Executive Summary

Pursuant to the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS) for certain generation interconnection requests in the SPP Generation Interconnection Queue. These interconnection requests have been clustered together for the following Impact Study. This restudy is being conducted to account for higher queued request withdrawals. The customers will be referred to in this study as the DISIS-2009-001 Interconnection Customers. This Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling 1,878 MW of new generation which would be located within the transmission systems of American Electric Power West (AEPW), Midwest Energy Inc. (MIDW), Missouri Public Service (MIPU), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Omaha Public Power District (OPPD), Southwestern Public Service (SPS), and Sunflower Electric Power Corporation / Mid-Kansas Electric Power LLC (SUNC)/(MKEC). The various generation interconnection requests have differing proposed in-service dates¹. The generation interconnection requests included in this DISIS are listed in Appendix A by their queue number, amount, area, requested interconnection point, proposed interconnection point, and the requested in-service date.

Power flow analysis has indicated that for the power flow cases studied, 1,878 MW of nameplate generation may be interconnected with transmission system reinforcements within the SPP transmission system. Previously performed dynamic stability analysis and additional power flow analysis for power factor requirements has determined the need for reactive. Previously performed dynamic stability analysis has determined that the transmission system will remain stable with the assigned Network Upgrades and Interconnection Facilities to the DISIS.

The need for reactive compensation in accordance with Order No. 661-A for wind farm interconnection requests and those requirements were determined in the previous Impact Study DISIS-2009-001.

The total estimated minimum cost for interconnecting the studied interconnection requests is \$80,147,000. These costs are shown in Appendix E and Appendix F. This cost does not include additional network constraints in the SPP transmission system that were identified are shown in Appendix H.

Interconnection Service to DISIS-2009-001 interconnection customers is contingent upon a higher queued customers paying for certain required network upgrades and other Base Case upgrades being placed in service. The in service date for the DISIS customers will be deferred until the construction of these network upgrades can be completed.

Network Constraints listed in Appendix G are in the local area of the new generation when this generation is injected throughout the SPP footprint for the Energy Resource (ER) Interconnection Request. Additional Network constraints will have to be verified with a Transmission Service Request

¹ The generation interconnection requests in-service dates will need to be deferred based on the required lead time for the Network Upgrades necessary. The Interconnection Customer's that proceed to the Facility Study will be provided a new in-service date based on the completion of the Facility Study.

(TSR) and associated studies. With a defined source and sink in a TSR, this list of Network Constraints will be refined and expanded to account for all Network Upgrade requirements.

These costs do not include the Interconnection Customer Interconnection Facilities as defined by the SPP Open Access Transmission Tariff (OATT). The required interconnection costs listed in Appendix E and F do not include all costs associated with the deliverability of the energy to final customers. These costs are determined by separate studies if the Customer submits a Transmission Service Request through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP OATT.

Appendix

A: Generation Interconnection Requests Considered for Impact Study

See next page

A: Generation Interconnection Requests Considered for Impact Study

Request	Amount	Service	Area	Requested Point of Interconnection	Proposed Point of Interconnection	Requested In-Service Date
GEN-2006-037N1	75.0	ER	NPPD	Broken Bow 115kV	Broken Bow 115kV	1/1/2010
GEN-2006-044N	40.5	ER	OPPD	North Petersburg 115kV	North Petersburg 115kV	1/1/2010
GEN-2007-040	200.0	ER	SUNCMKEC	Buckner 345kV	Buckner 345kV	12/15/2010
GEN-2008-023	150.0	ER	AEPW	Hobart Junction 138kV	Hobart Junction 138kV	12/1/2010
GEN-2008-029	250.5	ER	OKGE	Woodward EHV 138kV	Woodward EHV 138kV	1/1/2010
GEN-2008-051	322.0	ER	SPS	Potter County 345kV	Potter County 345kV	12/31/2010
GEN-2008-079	99.2	ER	SUNCMKEC	Tap Cudahy - Ft Dodge 115kV	Tap Cudahy - Ft Dodge 115kV	12/1/2010
GEN-2008-086N02	200.0	ER	NPPD	Tap Ft Randle - Columbus (Madison County) 230kV	Tap Ft Randle - Columbus (Madison County) 230kV	
GEN-2008-092	201.0	ER	MIDW	Knoll 115kV	Post Rock 230kV	12/1/2011
GEN-2008-124	200.1	ER	SUNCMKEC	Spearville 230kV	Ironwood 345kV	1/1/2016
GEN-2008-129	80.0	ER	MIPU	Pleasant Hill 161kV	Pleasant Hill 161kV	5/1/2009
GEN-2009-025	60.0	ER	OKGE	Kaycoop 69kV	Nardins 69kV	12/31/2011
TOTAL 1,878.3						

*request dependent upon Priority Projects or Balanced Portfolio may be delayed until 12/31/2014.
Other projects in service date to be determined after Facility Study.

B: Prior Queued Interconnection Requests

See next page

B: Prior Queued Interconnection Requests

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
ASGI-2010-006	150.00	AECI	Tap Fairfax (AECI) - Shilder (AEPW) 138kV	AECI queue Affected Study
GEN-2001-014	96.00	WFEC	Ft Supply 138kV	On-Line
GEN-2001-026	74.00	WFEC	Washita 138kV	On-Line
GEN-2001-033	180.00	SPS	San Juan Tap 230kV	On-Line at 120MW
GEN-2001-036	80.00	SPS	Norton 115kV	On-Line
GEN-2001-037	100.00	OKGE	FPL Moreland Tap 138kV	On-Line
GEN-2001-039A	105.00	SUNCMKEC	Tap Greensburg - Ft Dodge (Shooting Star Tap) 115kV	On-Line
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV	On-Line
GEN-2002-004	200.00	WERE	Latham 345kV	On-Line at 150MW
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV	On-Line
GEN-2002-008	240.00	SPS	Hitchland 345kV	On-Line at 120MW
GEN-2002-009	80.00	SPS	Hansford 115kV	On-Line
GEN-2002-022	240.00	SPS	Bushland 230kV	On-Line
GEN-2002-023N	0.80	NPPD	Harmony 115kV	On-Line
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV	On-Line
GEN-2003-004	100.00	WFEC	Washita 138kV	On-Line
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV	On-Line
GEN-2003-006A	200.00	SUNCMKEC	Elm Creek 230kV	On-Line
GEN-2003-019	250.00	MIDW	Smoky Hills Tap 230kV	On-Line
GEN-2003-020	160.00	SPS	Martin 115kV	On-Line
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV	On-Line
GEN-2003-022	120.00	AEPW	Washita 138kV	On-Line
GEN-2004-005N	30.00	NPPD	St Francis 115kV	On Suspension
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV	On-Line at 100MW
GEN-2004-020	27.00	AEPW	Washita 34.5kV	On-Line
GEN-2004-023	20.60	WFEC	Washita 138kV	On-Line
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV	On-Line
GEN-2005-003	30.60	WFEC	Washita 138kV	On-Line
GEN-2005-008	120.00	OKGE	Woodward 138kV	On-Line
GEN-2005-012	250.00	SUNCMKEC	Spearville 345kV	On-Line at 160MW
GEN-2005-013	201.00	WERE	Tap Latham - Neosho (Caney River) 345kV	On-Line
GEN-2006-002	101.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-006	205.50	SUNCMKEC	Spearville 345kV	On Schedule for 2015
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV	On-Line
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV	On-Line
GEN-2006-020S	18.90	SPS	DWS Frisco 115kV	On-Line
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV	On-Line
GEN-2006-024S	19.80	WFEC	Buffalo Bear Tap 69kV	On-Line
GEN-2006-026	604.00	SPS	Hobbs 230kV & Hobbs 115kV	On-Line
GEN-2006-031	75.00	MIDW	Knoll 115kV	On-Line
GEN-2006-035	225.00	AEPW	Sweetwater 230kV	On-Line at 132MW
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV	On-Line
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV	On-Line
GEN-2006-040	108.00	SUNCMKEC	Mingo 115kV	On Suspension
GEN-2006-043	99.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-044	370.00	SPS	Hitchland 345kV	On-Line at 80MW
GEN-2006-046	131.00	OKGE	Dewey 138kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2006-047	240.00	SPS	Tap Bushland - Deaf Smith (Buffalo) 230kV	On Suspension
GEN-2007-011	135.00	SUNCMKEC	Syracuse 115kV	On Suspension
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV	On-Line
GEN-2007-021	201.00	OKGE	Tatonga 345kV	On Schedule for 2014
GEN-2007-025	300.00	WERE	Viola 345kV	On-Line
GEN-2007-032	150.00	WFEC	Tap Clinton Junction - Clinton 138kV	On Schedule for 2013
GEN-2007-038	200.00	SUNCMKEC	Spearville 345kV	On Schedule for 2015
GEN-2007-043	200.00	OKGE	Minco 345kV	On-Line
GEN-2007-044	300.00	OKGE	Tatonga 345kV	On Schedule for 2014
GEN-2007-046	199.50	SPS	Hitchland 115kV	On Schedule for 2014
GEN-2007-048	400.00	SPS	Tap Amarillo S - Swisher 230kV	On Schedule for 2014
GEN-2007-050	170.00	OKGE	Woodward EHV 138kV	On-Line at 150MW
GEN-2007-052	150.00	WFEC	Anadarko 138kV	On-Line
GEN-2007-062	765.00	OKGE	Woodward EHV 345kV	On Schedule for 2014
GEN-2008-003	101.00	OKGE	Woodward EHV 138kV	On-Line
GEN-2008-008	60.00	SPS	Graham 69kV	On Suspension
GEN-2008-013	300.00	OKGE	Tap Wichita - Woodring (Hunter) 345kV	On-Line at 235MW
GEN-2008-017	300.00	SUNCMKEC	Setab 345kV	On Schedule for 2015
GEN-2008-018	250.00	SPS	Finney 345kV	On Schedule for 2014
GEN-2008-019	300.00	OKGE	Tatonga 345kV	On Schedule for 2015
GEN-2008-021	42.00	WERE	Wolf Creek 345kV	On-Line
GEN-2008-1190	60.00	OPPD	S1399 161kV	On-Line
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV	On-Line
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV	On-Line
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV	On-Line
NPPD Distributed (Burt County Wind)	12.00	NPPD	Tekamah & Oakland 115kV	On-Line
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV	On-Line
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV	On-Line
NPPD Distributed (Ord)	11.90	NPPD	Ord 115kV	On-Line
NPPD Distributed (Stuart)	2.10	NPPD	Ainsworth 115kV	On-Line
SPS Distributed (Dumas 19th St)	20.00	SPS	Dumas 19th Street 115kV	On-Line
SPS Distributed (Etter)	20.00	SPS	Etter 115kV	On-Line
SPS Distributed (Hopi)	10.00	SPS	Hopi 115kV	On-Line
SPS Distributed (Jal)	10.00	SPS	S Jal 115kV	On-Line
SPS Distributed (Lea Road)	10.00	SPS	Lea Road 115kV	On-Line
SPS Distributed (Monument)	10.00	SPS	Monument 115kV	On-Line
SPS Distributed (Moore E)	25.00	SPS	Moore East 115kV	On-Line
SPS Distributed (Ocotillo)	10.00	SPS	S_Jal 115kV	On-Line
SPS Distributed (Sherman)	20.00	SPS	Sherman 115kV	On-Line
SPS Distributed (Spearman)	10.00	SPS	Spearman 69kV	On-Line
SPS Distributed (TC-Texas County)	20.00	SPS	Texas County 115kV	On-Line
Total: 11,601.5				

C: Study Groupings

See next page.

C. Study Groups

GROUP 1: WOODWARD AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-014	96.00	WFEC	Ft Supply 138kV
GEN-2001-037	100.00	OKGE	FPL Moreland Tap 138kV
GEN-2005-008	120.00	OKGE	Woodward 138kV
GEN-2006-024S	19.80	WFEC	Buffalo Bear Tap 69kV
GEN-2006-046	131.00	OKGE	Dewey 138kV
GEN-2007-021	201.00	OKGE	Tatonga 345kV
GEN-2007-043	200.00	OKGE	Minco 345kV
GEN-2007-044	300.00	OKGE	Tatonga 345kV
GEN-2007-050	170.00	OKGE	Woodward EHV 138kV
GEN-2007-062	765.00	OKGE	Woodward EHV 345kV
GEN-2008-003	101.00	OKGE	Woodward EHV 138kV
GEN-2008-019	300.00	OKGE	Tatonga 345kV
PRIOR QUEUED SUBTOTAL	2,503.80		
GEN-2008-029	250.50	OKGE	Woodward EHV 138kV
CURRENT CLUSTER SUBTOTAL	250.50		
AREA TOTAL	2,754.30		

GROUP 2: HITCHLAND AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-008	240.00	SPS	Hitchland 345kV
GEN-2002-009	80.00	SPS	Hansford 115kV
GEN-2003-020	160.00	SPS	Martin 115kV
GEN-2006-020S	18.90	SPS	DWS Frisco 115kV
GEN-2006-044	370.00	SPS	Hitchland 345kV
GEN-2007-046	199.50	SPS	Hitchland 115kV
SPS Distributed (Dumas 19th St)	20.00	SPS	Dumas 19th Street 115kV
SPS Distributed (Etter)	20.00	SPS	Etter 115kV
SPS Distributed (Moore E)	25.00	SPS	Moore East 115kV
SPS Distributed (Sherman)	20.00	SPS	Sherman 115kV
SPS Distributed (Spearman)	10.00	SPS	Spearman 69kV
SPS Distributed (TC-Texas County)	20.00	SPS	Texas County 115kV
PRIOR QUEUED SUBTOTAL	1,183.40		
AREA TOTAL	1,183.40		

GROUP 3: SPEARVILLE AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-039A	105.00	SUNCMKEC	Tap Greensburg - Ft Dodge (Shooting Star Tap) 115kV
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV
GEN-2005-012	250.00	SUNCMKEC	Spearville 345kV
GEN-2006-006	205.50	SUNCMKEC	Spearville 345kV
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV
GEN-2007-038	200.00	SUNCMKEC	Spearville 345kV
GEN-2008-018	250.00	SPS	Finney 345kV
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV
PRIOR QUEUED SUBTOTAL	1,526.00		
GEN-2007-040	200.00	SUNCMKEC	Buckner 345kV
GEN-2008-079	99.20	SUNCMKEC	Tap Cudahy - Ft Dodge 115kV
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV
CURRENT CLUSTER SUBTOTAL	499.30		
AREA TOTAL	2,025.30		

GROUP 4/11: NW KANSAS AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV
GEN-2003-006A	200.00	SUNCMKEC	Elm Creek 230kV
GEN-2003-019	250.00	MIDW	Smoky Hills Tap 230kV
GEN-2006-031	75.00	MIDW	Knoll 115kV
GEN-2006-040	108.00	SUNCMKEC	Mingo 115kV
GEN-2007-011	135.00	SUNCMKEC	Syracuse 115kV
GEN-2008-017	300.00	SUNCMKEC	Setab 345kV
PRIOR QUEUED SUBTOTAL	1,168.00		
GEN-2008-092	201.00	MIDW	Post Rock 230kV
CURRENT CLUSTER SUBTOTAL	201.00		
AREA TOTAL	1,369.00		

GROUP 5: AMARILLO AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-022	240.00	SPS	Bushland 230kV
GEN-2006-047	240.00	SPS	Tap Bushland - Deaf Smith (Buffalo) 230kV
GEN-2007-048	400.00	SPS	Tap Amarillo S - Swisher 230kV
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV
PRIOR QUEUED SUBTOTAL	960.00		
GEN-2008-051	322.00	SPS	Potter County 345kV
CURRENT CLUSTER SUBTOTAL	322.00		
AREA TOTAL	1,282.00		

GROUP 6: S-TX PANHANDLE/W-TX AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-033	180.00	SPS	San Juan Tap 230kV
GEN-2001-036	80.00	SPS	Norton 115kV
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV
GEN-2006-026	604.00	SPS	Hobbs 230kV & Hobbs 115kV
GEN-2008-008	60.00	SPS	Graham 69kV
SPS Distributed (Hopi)	10.00	SPS	Hopi 115kV
SPS Distributed (Jal)	10.00	SPS	S Jal 115kV
SPS Distributed (Lea Road)	10.00	SPS	Lea Road 115kV
SPS Distributed (Monument)	10.00	SPS	Monument 115kV
SPS Distributed (Ocotillo)	10.00	SPS	S_Jal 115kV
PRIOR QUEUED SUBTOTAL	1,144.00		
AREA TOTAL	1,144.00		

GROUP 7: SW-OKLAHOMA AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-026	74.00	WFEC	Washita 138kV
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV
GEN-2003-004	100.00	WFEC	Washita 138kV
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV
GEN-2003-022	120.00	AEPW	Washita 138kV
GEN-2004-020	27.00	AEPW	Washita 34.5kV
GEN-2004-023	20.60	WFEC	Washita 138kV
GEN-2005-003	30.60	WFEC	Washita 138kV
GEN-2006-002	101.00	AEPW	Sweetwater 230kV
GEN-2006-035	225.00	AEPW	Sweetwater 230kV
GEN-2006-043	99.00	AEPW	Sweetwater 230kV
GEN-2007-032	150.00	WFEC	Tap Clinton Junction - Clinton 138kV
GEN-2007-052	150.00	WFEC	Anadarko 138kV
PRIOR QUEUED SUBTOTAL	1,317.20		
GEN-2008-023	150.00	AEPW	Hobart Junction 138kV
CURRENT CLUSTER SUBTOTAL	150.00		
AREA TOTAL	1,467.20		

GROUP 8: N-OK/S-KS AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-006	150.00	AECI	Tap Fairfax (AECI) - Schilder (AEPW) 138kV
GEN-2002-004	200.00	WERE	Latham 345kV
GEN-2005-013	201.00	WERE	Tap Latham - Neosho (Caney River) 345kV
GEN-2007-025	300.00	WERE	Viola 345kV
GEN-2008-013	300.00	OKGE	Tap Wichita - Woodring (Hunter) 345kV
GEN-2008-021	42.00	WERE	Wolf Creek 345kV
PRIOR QUEUED SUBTOTAL	1,193.00		
GEN-2009-025	60.00	OKGE	Nardins 69kV
CURRENT CLUSTER SUBTOTAL	60.00		
AREA TOTAL	1,253.00		

GROUP 9/10: NEBRASKA AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-023N	0.80	NPPD	Harmony 115kV
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV
GEN-2004-005N	30.00	NPPD	St Francis 115kV
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV
GEN-2008-119O	60.00	OPPD	S1399 161kV
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV
NPPD Distributed (Burt County Wind)	12.00	NPPD	Tekamah & Oakland 115kV
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV
NPPD Distributed (Ord)	11.90	NPPD	Ord 115kV
NPPD Distributed (Stuart)	2.10	NPPD	Ainsworth 115kV
PRIOR QUEUED SUBTOTAL	606.10		
GEN-2006-037N1	75.00	NPPD	Broken Bow 115kV
GEN-2006-044N	40.50	OPPD	North Petersburg 115kV
GEN-2008-086N02	200.00	NPPD	Tap Ft Randle - Columbus (Madison County) 230kV
CURRENT CLUSTER SUBTOTAL	315.50		
AREA TOTAL	921.60		

GROUP 12: NW-AR AREA

Request	Capacity	Area	Proposed Point of Interconnection
AREA TOTAL	0.00		

GROUP 13: NW MISSOURI AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2008-129	80.00	MIPU	Pleasant Hill 161kV
CURRENT CLUSTER SUBTOTAL	80.00		
AREA TOTAL	80.00		

GROUP 14: S-OKLAHOMA AREA

Request	Capacity	Area	Proposed Point of Interconnection
AREA TOTAL	0.00		

CLUSTER TOTAL (CURRENT STUDY)	1,878.3	MW
PQ TOTAL (PRIOR QUEUED)	11,601.5	MW
CLUSTER TOTAL (INCLUDING PRIOR QUEUED)	13,479.8	MW

D: Proposed Point of Interconnection One line Diagrams

See Facility Studies posted for each individual request

E: Cost Allocation per Interconnection Request

Appendix E. - Cost Allocation Per Request

(Including Previously Allocated Network Upgrades*)

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
GEN-2006-037N1			
GEN-2006-037N1 Interconnection Costs See Online Diagram	Current Study Allocation	\$700,000.00	\$700,000.00
		Current Study Total	\$700,000.00
GEN-2006-044N			
GEN-2006-044N Interconnection Costs See Online Diagram	Current Study Allocation	\$1,400,000.00	\$1,400,000.00
Neligh - Petersburg 115KV CKT 1 Per GEN-2006-044N Impact Restudy	Current Study Allocation	\$540,000.00	\$540,000.00
Albion - Petersburg 115KV CKT1 Line re-rating to 100 ⁰ C	Current Study Allocation	\$360,000.00	\$360,000.00
		Current Study Total	\$2,300,000.00
GEN-2007-040			
GEN-2007-040 Interconnection Costs See Online Diagram	Current Study Allocation	\$22,000,000.00	\$22,000,000.00
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Hitchland - Woodward 345kV CKT 1 Priority Project: Hitchland-Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
		Current Study Total	\$22,000,000.00
GEN-2008-023			
GEN-2008-023 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,038,000.00	\$1,038,000.00
Gracemont Transformer 345/138/13.8KV CKT 1 Priority Project: Gracemont Transformer 345/138/13.8KV CKT 1	Previously Allocated		\$8,000,000.00
Clinton Junction - Elk City 138KV CKT 1 Replaced terminal equipment	Previously Allocated		\$0.00

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

Interconnection Request

Upgrade Type

Allocated Costs

E + C Costs

Current Study Total \$1,038,000.00

GEN-2008-029

GEN-2008-029 Interconnection Costs See Online Diagram	Current Study Allocation	\$4,610,000.00	\$4,610,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00

Current Study Total \$4,610,000.00

GEN-2008-051

GEN-2008-051 Interconnection Costs See Online Diagram	Current Study Allocation	\$2,346,379.00	\$2,346,379.00
Hitchland - Woodward 345kV CKT 1 Priority Project: Hitchland-Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00

Current Study Total \$2,346,379.00

GEN-2008-079

GEN-2008-079 Interconnection Costs See Online Diagram	Current Study Allocation	\$3,850,000.00	\$3,850,000.00
Spearville (SPEARVLX) 345/115/13.8KV Transformer CKT 1 Install 345/230/13.8kV Transformer CKT 1	Current Study Allocation	\$14,000,000.00	\$14,000,000.00
Judson Large - North Judson Large 115KV CKT 2 Construct approximately 1 mile of new 115kV for 2nd circuit	Current Study Allocation	\$6,113,000.00	\$6,113,000.00
North Judson Large - Spearville 115KV CKT 2 Construct approximately 15 miles of new 115kV for 2nd circuit	Current Study Allocation	\$9,660,000.00	\$9,660,000.00

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
	Current Study Total	\$33,623,000.00	
GEN-2008-086N2			
GEN-2008-086N2 Interconnection Costs See Online Diagram	Current Study Allocation	\$6,400,000.00	\$6,400,000.00
Kelly - MadisonCO 230KV CKT 1 Total E & C Cost for Fort Randall-Madison-Kelly Project	Current Study Allocation	\$493,000.00	\$493,000.00
Ft Randal - Kelly 230.00 230KV CKT 1 Total E & C Cost for Fort Randall-Madison-Kelly Project	Current Study Allocation	\$2,407,000.00	\$2,407,000.00
	Current Study Total	\$9,300,000.00	
GEN-2008-092			
GEN-2008-092 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,140,505.00	\$1,140,505.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
	Current Study Total	\$1,140,505.00	
GEN-2008-124			
GEN-2008-124 Interconnection Costs See Online Diagram	Current Study Allocation	\$50,000.00	\$50,000.00

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Border - TUCO Interchange 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
	Current Study Total	\$50,000.00	
GEN-2008-129			
GEN-2008-129 Interconnection Costs See Online Diagram	Current Study Allocation	\$1.00	\$1.00
KC South - Longview 161KV CKT 1 Replace terminal equipment to increase limit to conductor rating	Current Study Allocation	\$150,000.00	\$150,000.00
	Current Study Total	\$150,001.00	
GEN-2009-025			
GEN-2009-025 Interconnection Costs See Online Diagram	Current Study Allocation	\$2,889,212.00	\$2,889,212.00
	Current Study Total	\$2,889,212.00	

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

F: Cost Allocation per Proposed Study Network Upgrade

Appendix F. - Cost Allocation Per Upgrade Facility

Upgrade Facility	Allocated Costs	E + C Costs
Albion - Petersburg 115KV CKT1 Line re-rating to 100°C GEN-2006-044N	\$360,000.00	\$360,000.00
Total	\$360,000.00	
Ft Randal - Kelly 230.00 230KV CKT 1 Total E & C Cost for Fort Randall-Madison-Kelly Project GEN-2008-086N2	\$2,407,000.00	\$2,407,000.00
Total	\$2,407,000.00	
GEN-2006-037N1 Interconnection Costs See Online Diagram GEN-2006-037N1	\$700,000.00	\$700,000.00
Total	\$700,000.00	
GEN-2006-044N Interconnection Costs See Online Diagram GEN-2006-044N	\$1,400,000.00	\$1,400,000.00
Total	\$1,400,000.00	
GEN-2007-040 Interconnection Costs See Online Diagram GEN-2007-040	\$22,000,000.00	\$22,000,000.00
Total	\$22,000,000.00	
GEN-2008-023 Interconnection Costs See Online Diagram GEN-2008-023	\$1,038,000.00	\$1,038,000.00
Total	\$1,038,000.00	
GEN-2008-029 Interconnection Costs See Online Diagram GEN-2008-029	\$4,610,000.00	\$4,610,000.00
Total	\$4,610,000.00	
GEN-2008-051 Interconnection Costs See Online Diagram GEN-2008-051	\$2,346,379.00	\$2,346,379.00
Total	\$2,346,379.00	
GEN-2008-079 Interconnection Costs See Online Diagram GEN-2008-079	\$3,850,000.00	\$3,850,000.00
Total	\$3,850,000.00	

Upgrade Facility	Allocated Costs	E + C Costs
GEN-2008-086N2 Interconnection Costs		\$6,400,000.00
See Online Diagram		
GEN-2008-086N2	\$6,400,000.00	
Total	\$6,400,000.00	
GEN-2008-092 Interconnection Costs		\$1,140,505.00
See Online Diagram		
GEN-2008-092	\$1,140,505.00	
Total	\$1,140,505.00	
GEN-2008-124 Interconnection Costs		\$50,000.00
See Online Diagram		
GEN-2008-124	\$50,000.00	
Total	\$50,000.00	
GEN-2008-129 Interconnection Costs		\$1.00
See Online Diagram		
GEN-2008-129	\$1.00	
Total	\$1.00	
GEN-2009-025 Interconnection Costs		\$2,889,212.00
See Online Diagram		
GEN-2009-025	\$2,889,212.00	
Total	\$2,889,212.00	
Judson Large - North Judson Large 115KV CKT 2		\$6,113,000.00
Construct approximately 1 mile of new 115kV for 2nd circuit		
GEN-2008-079	\$6,113,000.00	
Total	\$6,113,000.00	
KC South - Longview 161KV CKT 1		\$150,000.00
Replace terminal equipment to increase limit to conductor rating		
GEN-2008-129	\$150,000.00	
Total	\$150,000.00	
Kelly - MadisonCO 230KV CKT 1		\$493,000.00
Total E & C Cost for Fort Randall-Madison-Kelly Project		
GEN-2008-086N2	\$493,000.00	
Total	\$493,000.00	
Neligh - Petersburg 115KV CKT 1		\$540,000.00
Per GEN-2006-044N Impact Restudy		
GEN-2006-044N	\$540,000.00	
Total	\$540,000.00	
North Judson Large - Spearville 115KV CKT 2		\$9,660,000.00
Construct approximately 15 miles of new 115kV for 2nd circuit		

Upgrade Facility	Allocated Costs	E + C Costs
GEN-2008-079	\$9,660,000.00	
Total	\$9,660,000.00	
Spearville (SPEARVLX) 345/115/13.8KV Transformer CKT 1		\$14,000,000.00
Install 345/230/13.8kV Transformer CKT 1		
GEN-2008-079	\$14,000,000.00	
Total	\$14,000,000.00	
Current Study Upgrades Total		\$80,147,097.00

G: Power Flow ACCC Analysis (Constraints Used for Transmission Reinforcements)

See next page.

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONTCOMMONNAME	RATEB	TDF	TC%LOADII	CONTNAME
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.34057	100.2722	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.34057	102.1486	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.21475	134.9196	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.21475	146.414	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.77681	169.8772	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.21475	129.8198	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'	222.3	0.77144	128.1172	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.64525	101.5009	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.77144	113.1649	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.77144	117.8768	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	125.9285	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	127.8185	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62377	170.1377	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'	222.3	0.6184	127.5417	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	113.2431	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	117.4203	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.58323	138.9971	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.58323	140.8233	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'	165.1	0.58323	101.7589	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.40833	147.4541	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.40833	158.5591	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.40833	142.3313	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	115.1232	'BARBER 3 115.00 - MEDICINE LODGE 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	116.9942	'BARBER 3 115.00 - MEDICINE LODGE 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62377	139.8528	'BARBER 3 115.00 - MEDICINE LODGE 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'	222.3	0.6184	110.2394	'BARBER 3 115.00 - MEDICINE LODGE 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	100.062	'BARBER 3 115.00 - MEDICINE LODGE 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	102.2896	'BARBER 3 115.00 - MEDICINE LODGE 115KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.49649	136.5451	'MULLERGREEN - SPEARVILLE 230KV CKT 1'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.49649	135.5247	'MULLERGREEN - SPEARVILLE 230KV CKT 1'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.34081	100.8347	'DBL-WICH-THI'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.34081	102.7126	'DBL-WICH-THI'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.2792	101.1073	'SPP-SEPC-14'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.2792	102.9886	'SPP-SEPC-14'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.21475	132.4208	'SPP-MKEC-01'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.21475	143.8599	'SPP-MKEC-01'
03ALL	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.77681	161.0781	'SPP-MKEC-01'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.21475	127.3778	'SPP-MKEC-01'
03ALL	0	14G	G08_079	'FROM->TO'	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'	222.3	0.77144	123.149	'SPP-MKEC-01'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.77144	109.4408	'SPP-MKEC-01'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.77144	113.543	'SPP-MKEC-01'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	124.2019	'SPP-MKEC-09A'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	126.0998	'SPP-MKEC-09A'
03ALL	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62377	161.3712	'SPP-MKEC-09A'
03ALL	0	14G	G08_079	'FROM->TO'	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'	222.3	0.6184	123.9361	'SPP-MKEC-09A'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	109.4518	'SPP-MKEC-09A'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	113.9998	'SPP-MKEC-09A'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	121.2084	'SPP-MKEC-09B'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.36779	123.0825	'SPP-MKEC-09B'
03ALL	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62377	156.411	'SPP-MKEC-09B'
03ALL	0	14G	G08_079	'FROM->TO'	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'	222.3	0.6184	119.9084	'SPP-MKEC-09B'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	107.4378	'SPP-MKEC-09B'
03ALL	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'	225.5	0.6184	110.7947	'SPP-MKEC-09B'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.33974	104.5763	'GEN531447 1-HOLCOMB GENERATOR'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.33974	106.4459	'GEN531447 1-HOLCOMB GENERATOR'
03ALL	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.33974	103.842	'GEN539653 1-CIMARRON RIVER PLANT GENERATOR'
03ALL	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.33974	105.7098	'GEN539653 1-CIMARRON RIVER PLANT GENERATOR'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.21542	103.9718	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.21542	114.8081	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.77808	122.3341	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.36839	103.1134	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.36839	104.9774	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62511	122.731	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.58414	109.0828	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.58414	110.9074	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.40935	110.1943	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.40935	120.9917	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.40935	105.1837	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.49849	105.9287	'MULLERGREEN - SPEARVILLE 230KV CKT 1'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONTCOMMONNAME	RATEB	TDF	TC%LOADII	CONTNAME
03G08_079	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.49849	105.4698	'MULLERGREN - SPEARVILLE 230KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.58211	152.897	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.58211	154.7547	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'CRCKC 3 115.00 - CUDAHY 115KV CKT 1'	165.1	0.58211	111.5168	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.40715	147.2871	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.40715	158.5499	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.40715	142.1982	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.39066	104.308	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.39066	106.1584	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.19357	103.9568	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.19357	114.732	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.40503	104.3766	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.58211	148.9267	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.58211	150.7786	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'CRCKC 3 115.00 - CUDAHY 115KV CKT 1'	165.1	0.58211	108.7317	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.40715	143.9694	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.40715	155.1761	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.40715	138.9002	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.21542	102.3541	'SPP-MKEC-01'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.21542	113.1658	'SPP-MKEC-01'
03G08_079	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.77808	115.9352	'SPP-MKEC-01'
03G08_079	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.36839	99.9	'SPP-MKEC-09A'
03G08_079	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.36839	101.7332	'SPP-MKEC-09A'
03G08_079	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62511	112.3045	'SPP-MKEC-09A'
03G08_079	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.36839	100.2857	'SPP-MKEC-09B'
03G08_079	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.36839	102.2081	'SPP-MKEC-09B'
03G08_079	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62511	113.107	'SPP-MKEC-09B'
3	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.21545	110.5891	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
3	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.77821	107.0647	'CRKCK 3 115.00 - CUDAHY 115KV CKT 1'
3	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62524	110.6512	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
3	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.40944	101.7905	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
3	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.40944	112.4979	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
3	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.4986	102.406	'MULLERGREN - SPEARVILLE 230KV CKT 1'
3	0	14G	G08_079	'FROM->TO'	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.4986	102.0056	'MULLERGREN - SPEARVILLE 230KV CKT 1'
3	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.58219	134.4176	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
3	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.58219	136.2392	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
3	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.40724	134.5449	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
3	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.40724	145.6312	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
3	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.40724	129.5417	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
3	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.19361	110.0999	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.40512	100.6544	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	'TO->FROM'	'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'	115.1	0.58219	131.5384	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	'FROM->TO'	'CUDAHY - KISMET 3 115.00 115KV CKT 1'	115.1	0.58219	133.3666	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.40724	132.1044	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.40724	143.1227	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.40724	127.093	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.21545	108.9101	'SPP-MKEC-01'
3	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.77821	100.7202	'SPP-MKEC-01'
3	0	14G	G08_079	'FROM->TO'	'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'	119.5	0.62524	101.0666	'SPP-MKEC-09B'
05ALL	0	14G	G08_051	'FROM->TO'	'SPSSPTIESB'	620	0.58322	106.4889	'BASE CASE'
05ALL	0	14G	G08_051	'FROM->TO'	'SPSSPTIESC1'	620	0.58322	106.4889	'BASE CASE'
09ALL	0	14G	G08_086N02	'TO->FROM'	'FT RANDAL - MADISONCO 230.00 230KV CKT 1'	192	1	103.3915	'KELLY - MADISONCO 230.00 230KV CKT 1'
09ALL	0	14G	G08_086N02	'TO->FROM'	'KELLY - MADISONCO 230.00 230KV CKT 1'	192	1	103.6959	'FT RANDAL - MADISONCO 230.00 230KV CKT 1'
09ALL	0	14G	G08_086N02	'TO->FROM'	'KELLY - MADISONCO 230.00 230KV CKT 1'	192	0.67203	107.4845	'FT RANDAL - UTICA JCT 230KV CKT 1'
09ALL	0	14G	G08_086N02	'TO->FROM'	'KELLY - MADISONCO 230.00 230KV CKT 1'	192	0.66808	104.1051	'FT RANDAL - SIOUX CITY 230KV CKT 1'

H: Power Flow ACCC Analysis (Other Constraints Not Requiring Reinforcements)

H-0

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
00G06_037N1	0	19SP	G06_037N1	'FROM->TO'	'LOUP CITY - NORTH LOUP 115KV CKT 1'	137	0.09503	96.2	'WAPA-OG-2'
00G06_037N1	0	24SP	G06_037N1	'FROM->TO'	'CANADAY - JOHNSON NO 2 115KV CKT 1'	80	0.05934	102.7505	'CANADAY - JOHNSON NO 2 115KV CKT 1'
00G06_037N1	0	24SP	G06_037N1	'FROM->TO'	'CANADAY - JOHNSON NO 2 115KV CKT 1'	80	0.05934	102.7505	'CANADAY - JOHNSON NO 2 115KV CKT 1'
00G06_037N1	0	24SP	G06_037N1	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.04547	116.6051	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G06_037N1	0	24SP	G06_037N1	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.04547	114.949	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G06_037N1	0	24SP	G06_037N1	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.04608	118.0498	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G06_037N1	0	24SP	G06_037N1	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.04608	116.5706	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G06_044N	0	24SP	G06_044N	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05027	116.5264	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G06_044N	0	24SP	G06_044N	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05027	114.8734	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G06_044N	0	24SP	G06_044N	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05094	117.9702	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G06_044N	0	24SP	G06_044N	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05094	116.4939	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_023	0	24SP	G08_023	'FROM->TO'	'TUCXFR345230'	300	0.03066	121.3255	'BASE CASE'
00G08_023	0	24SP	G08_023	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05423	116.9308	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_023	0	24SP	G08_023	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05423	115.2644	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_023	0	24SP	G08_023	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05496	118.3803	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_023	0	24SP	G08_023	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05496	116.892	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_029	0	24SP	G08_029	'FROM->TO'	'TUCXFR345230'	300	0.03011	123.3893	'BASE CASE'
00G08_029	0	24SP	G08_029	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05325	119.0612	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_029	0	24SP	G08_029	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05325	117.2592	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_029	0	24SP	G08_029	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05397	120.5346	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_029	0	24SP	G08_029	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05397	118.9223	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_051	0	24SP	G08_051	'FROM->TO'	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'	288	0.06467	95.3	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_051	0	24SP	G08_051	'FROM->TO'	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'	288	0.06467	95.8	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_079	0	19SP	G08_079	'TO->FROM'	'DOBSON - KANSAS AVENUE WATER TREATMENT PLANT 115KV CKT 1'	119.5	0.07346	125.3343	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
00G08_079	0	19SP	G08_079	'FROM->TO'	'DOBSON - GANO 3 115.00 115KV CKT 1'	119.5	0.14421	141.4017	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
00G08_079	0	19SP	G08_079	'FROM->TO'	'GARDEN CITY - KANSAS AVENUE WATER TREATMENT PLANT 115KV CKT 1'	119.5	0.07346	130.5611	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
00G08_079	0	19WP	G08_079	'TO->FROM'	'GARDEN CITY - HOLCOMB 115KV CKT 1'	119.5	0.0851	95.1	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
00G08_079	0	24SP	G08_079	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.03238	115.9977	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_079	0	24SP	G08_079	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.03238	114.3732	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_079	0	24SP	G08_079	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.03281	117.5148	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_079	0	24SP	G08_079	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.03281	116.0603	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_079	0	24SP	G08_079	'TO->FROM'	'DOBSON - KANSAS AVENUE WATER TREATMENT PLANT 115KV CKT 1'	119.5	0.07369	119.6507	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
00G08_079	0	24SP	G08_079	'FROM->TO'	'DOBSON - GANO 3 115.00 115KV CKT 1'	119.5	0.14456	129.0967	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
00G08_079	0	24SP	G08_079	'FROM->TO'	'GARDEN CITY - KANSAS AVENUE WATER TREATMENT PLANT 115KV CKT 1'	119.5	0.07369	125.0844	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
00G08_092	0	14WP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.04913	100.9442	'HEIZER 6 230.00 - MULLERGREEN 230KV CKT 1'
00G08_092	0	14WP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.04913	102.7207	'HEIZER 6 230.00 - MULLERGREEN 230KV CKT 1'
00G08_092	0	14WP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.04913	100.9172	'HEIZER 6 230.00 (HEIZER T1) 230/115/12.5KV TRANSFORMER CKT 1'
00G08_092	0	14WP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.04913	102.6905	'HEIZER 6 230.00 (HEIZER T1) 230/115/12.5KV TRANSFORMER CKT 1'
00G08_092	0	19SP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.05011	97.4	'HEIZER 6 230.00 - MULLERGREEN 230KV CKT 1'
00G08_092	0	19SP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.05011	97.5	'HEIZER 6 230.00 (HEIZER T1) 230/115/12.5KV TRANSFORMER CKT 1'
00G08_092	0	24SP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.05005	102.2536	'HEIZER 6 230.00 - MULLERGREEN 230KV CKT 1'
00G08_092	0	24SP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.05005	105.958	'HEIZER 6 230.00 - MULLERGREEN 230KV CKT 1'
00G08_092	0	24SP	G08_092	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.0419	116.5088	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_092	0	24SP	G08_092	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.0419	114.8572	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_092	0	24SP	G08_092	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.04247	117.9521	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_092	0	24SP	G08_092	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.04247	116.477	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_092	0	24SP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.05005	102.2279	'HEIZER 6 230.00 (HEIZER T1) 230/115/12.5KV TRANSFORMER CKT 1'
00G08_092	0	24SP	G08_092	'FROM->TO'	'MULLERGREEN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.05005	105.9301	'HEIZER 6 230.00 (HEIZER T1) 230/115/12.5KV TRANSFORMER CKT 1'
00G08_124	0	24SP	G08_124	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.03682	116.9171	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_124	0	24SP	G08_124	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.03682	115.2422	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_124	0	24SP	G08_124	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.03731	118.3647	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_124	0	24SP	G08_124	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.03731	116.8682	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_129	0	24SP	G08_129	'FROM->TO'	'TUCXFR345230'	300	0.03115	120.2049	'BASE CASE'
00G08_129	0	24SP	G08_129	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05509	115.8246	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_129	0	24SP	G08_129	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05509	114.2051	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G08_129	0	24SP	G08_129	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05582	117.2603	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G08_129	0	24SP	G08_129	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.05582	115.8143	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G09_025	0	14SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.04051	95	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'
00G09_025	0	14SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.04056	95.1	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'
00G09_025	0	14SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.04056	95.8	'WR-B3-28'
00G09_025	0	19SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.04014	101.4272	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'
00G09_025	0	19SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.04014	98.2	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'
00G09_025	0	19SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.0402	101.541	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'
00G09_025	0	19SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.0402	98.3	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'
00G09_025	0	19SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.0402	101.541	'WR-B3-28'
00G09_025	0	19SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.0402	97.5	'WR-B3-28'
00G09_025	0	24SP	G09_025	'FROM->TO'	'TUCXFR345230'	300	0.03365	120.7104	'BASE CASE'
00G09_025	0	24SP	G09_025	'FROM->TO'	'NEWKIRK4 - PECKHAM TAP 138KV CKT 1'	207	0.09457	97.2	'EL PASO - FARBER 138KV CKT 1'
00G09_025	0	24SP	G09_025	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05951	116.3296	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G09_025	0	24SP	G09_025	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	560	0.05951	114.6861	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
00G09_025	0	24SP	G09_025	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.06031	117.7712	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G09_025	0	24SP	G09_025	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	0.06031	116.3015	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
00G09_025	0	24SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.0401	106.05	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'
00G09_025	0	24SP	G09_025	'FROM->TO'	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.0401	102.1365	'CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER CKT 1'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
0	0	24SP	G09_025	'FROM->TO'	'CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.04015	104.8686	'WR-B3-28'
0	0	24SP	G09_025	'FROM->TO'	'CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER CKT 1'	110	0.04015	100.8182	'WR-B3-28'
0	0	14WP	G08_092	'FROM->TO'	'MULLERGREN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.04913	95	'HEIZER 6 230.00 - MULLERGREN 230KV CKT 1'
0	0	14WP	G08_092	'FROM->TO'	'MULLERGREN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.04913	96.7	'HEIZER 6 230.00 - MULLERGREN 230KV CKT 1'
0	0	14WP	G08_092	'FROM->TO'	'MULLERGREN (MULGRENE) 230/115/13.8KV TRANSFORMER CKT 1'	119.5	0.04913	96.6	'HEIZER 6 230.00 (HEIZER T1) 230/115/12.5KV TRANSFORMER CKT 1'
01ALL	0	14G	G08_029	'TO->FROM'	'GLASS MOUNTAIN - MOORELAND 138KV CKT 1'	124	0.04579	97.3	'KNOBHILL - MOORELAND 138KV CKT 1'
01ALL	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.16806	146.7491	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G07_040	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04878	146.7491	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_079	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.0463	146.7491	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_051	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05904	146.7491	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_092	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03332	146.7491	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_124	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04581	146.7491	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_029	'TO->FROM'	'GLASS MOUNTAIN - MOORELAND 138KV CKT 1'	124	0.04847	108.5981	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_029	'TO->FROM'	'EL RENO - ROMAN NOSE 138KV CKT 1'	153	0.05644	98.4	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_029	'TO->FROM'	'ROMAN NOSE - SOUTHARD 138KV CKT 1'	153	0.05644	101.8422	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_029	'FROM->TO'	'FPL SWITCH - MOORELAND 138KV CKT 1'	287	0.16806	106.1326	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G07_040	'FROM->TO'	'FPL SWITCH - MOORELAND 138KV CKT 1'	287	0.04878	106.1326	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_079	'FROM->TO'	'FPL SWITCH - MOORELAND 138KV CKT 1'	287	0.0463	106.1326	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_051	'FROM->TO'	'FPL SWITCH - MOORELAND 138KV CKT 1'	287	0.05904	106.1326	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_092	'FROM->TO'	'FPL SWITCH - MOORELAND 138KV CKT 1'	287	0.03332	106.1326	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G08_124	'FROM->TO'	'FPL SWITCH - MOORELAND 138KV CKT 1'	287	0.04581	106.1326	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01ALL	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	100	'BELDEN - HARTINGTON 115KV CKT 1'
01ALL	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.8951	'GAVINS POINT - HARTINGTON 115KV CKT 1'
01ALL	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07977	105.3454	'BERSFORD - MANNING 115KV CKT 1'
01ALL	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07005	106.2345	'FT RANDAL - UTICA JCT 230KV CKT 1'
01ALL	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07977	112.3998	'MANNING - SPIRIT MOUND 115KV CKT 1'
01ALL	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.15692	95.6	'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
01ALL	0	14G	G07_040	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03817	95.6	'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
01ALL	0	14G	G08_079	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03626	95.6	'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
01ALL	0	14G	G08_051	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04339	95.6	'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
01ALL	0	14G	G08_124	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03592	95.6	'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
01ALL	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.15759	106.9564	'DBL-WICH-THI'
01ALL	0	14G	G07_040	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05464	106.9564	'DBL-WICH-THI'
01ALL	0	14G	G08_079	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05298	106.9564	'DBL-WICH-THI'
01ALL	0	14G	G08_051	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.0546	106.9564	'DBL-WICH-THI'
01ALL	0	14G	G08_092	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03397	106.9564	'DBL-WICH-THI'
01ALL	0	14G	G08_124	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05495	106.9564	'DBL-WICH-THI'
01ALL	0	14G	G08_029	'TO->FROM'	'GLASS MOUNTAIN - MOORELAND 138KV CKT 1'	124	0.04599	97	'DBL-WICH-THI'
01ALL	0	14G	G08_029	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04098	134.7452	'DBL-WICH-THI'
01ALL	0	14G	G07_040	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04932	134.7452	'DBL-WICH-THI'
01ALL	0	14G	G08_079	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05741	134.7452	'DBL-WICH-THI'
01ALL	0	14G	G08_051	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03699	134.7452	'DBL-WICH-THI'
01ALL	0	14G	G08_124	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05458	134.7452	'DBL-WICH-THI'
01ALL	0	14G	G08_029	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04098	145.1903	'DBL-WICH-THI'
01ALL	0	14G	G07_040	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04932	145.1903	'DBL-WICH-THI'
01ALL	0	14G	G08_079	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05741	145.1903	'DBL-WICH-THI'
01ALL	0	14G	G08_051	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03699	145.1903	'DBL-WICH-THI'
01ALL	0	14G	G08_124	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05458	145.1903	'DBL-WICH-THI'
01ALL	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	115.0963	'NEB02WAPAB2'
01ALL	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.13943	95.4	'GEN515787 1-OKLA WIND ENERGY CENTER'
01ALL	0	14G	G07_040	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03396	95.4	'GEN515787 1-OKLA WIND ENERGY CENTER'
01ALL	0	14G	G08_079	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03226	95.4	'GEN515787 1-OKLA WIND ENERGY CENTER'
01ALL	0	14G	G08_051	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03842	95.4	'GEN515787 1-OKLA WIND ENERGY CENTER'
01ALL	0	14G	G08_124	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03197	95.4	'GEN515787 1-OKLA WIND ENERGY CENTER'
01ALL	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.13943	97.8	'GEN520997 1-MORLND2'
01ALL	0	14G	G07_040	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03396	97.8	'GEN520997 1-MORLND2'
01ALL	0	14G	G08_079	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03226	97.8	'GEN520997 1-MORLND2'
01ALL	0	14G	G08_051	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03842	97.8	'GEN520997 1-MORLND2'
01ALL	0	14G	G08_124	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03197	97.8	'GEN520997 1-MORLND2'
01G08_029	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.16794	128.8969	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01G08_029	0	14G	G08_029	'TO->FROM'	'GLASS MOUNTAIN - MOORELAND 138KV CKT 1'	124	0.04844	95.6	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
01G08_029	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.15755	97.8	'DBL-WICH-THI'
01G08_029	0	14G	G08_029	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04101	121.2476	'DBL-WICH-THI'
01G08_029	0	14G	G08_029	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04101	131.7485	'DBL-WICH-THI'
1	0	14G	G08_029	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.16791	117.4704	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
1	0	14G	G07_040	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04863	117.4704	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
1	0	14G	G08_079	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04615	117.4704	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
1	0	14G	G08_051	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05889	117.4704	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
1	0	14G	G08_092	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03317	117.4704	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
1	0	14G	G08_124	'TO->FROM'	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04566	117.4704	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
1	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	99.9	'BELDEN - HARTINGTON 115KV CKT 1'
1	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.7873	'GAVINS POINT - HARTINGTON 115KV CKT 1'
1	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07976	105.4036	'BERSFORD - MANNING 115KV CKT 1'
1	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07004	106.1332	'FT RANDAL - UTICA JCT 230KV CKT 1'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
1	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07976	112.4551	'MANNING - SPIRIT MOUND 115KV CKT 1'
1	0	14G	G08_029	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04103	117.2206	'DBL-WICH-THI'
1	0	14G	G07_040	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04937	117.2206	'DBL-WICH-THI'
1	0	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05746	117.2206	'DBL-WICH-THI'
1	0	14G	G08_051	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03704	117.2206	'DBL-WICH-THI'
1	0	14G	G08_124	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05464	117.2206	'DBL-WICH-THI'
1	0	14G	G08_029	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04103	127.74	'DBL-WICH-THI'
1	0	14G	G07_040	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04937	127.74	'DBL-WICH-THI'
1	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05746	127.74	'DBL-WICH-THI'
1	0	14G	G08_051	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03704	127.74	'DBL-WICH-THI'
1	0	14G	G08_124	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05464	127.74	'DBL-WICH-THI'
1	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.9898	'NEBOZWAPAB2'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	106.7374	'BASE CASE'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	117.5264	'BASE CASE'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14429	101.6412	'BASE CASE'
03ALL	0	14G	G08_029	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.16706	95.4	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
03ALL	0	14G	G07_040	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04778	95.4	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.0453	95.4	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
03ALL	0	14G	G08_051	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05804	95.4	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
03ALL	0	14G	G08_092	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03232	95.4	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
03ALL	0	14G	G08_124	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.04481	95.4	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03014	100.6058	'NORTHWEST - TATONGA7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03014	96.2	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14947	123.0705	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14947	134.0223	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14947	117.9116	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
03ALL	0	14G	G08_092	TO->FROM	'HAYS PLANT - SOUTH HAYS 115KV CKT 1'	99	0.10665	101.5883	'KNOLL 230 - POSTROCK6 230.00 230KV CKT 1'
03ALL	0	14G	G08_124	TO->FROM	'HAYS PLANT - SOUTH HAYS 115KV CKT 1'	99	0.03338	101.5883	'KNOLL 230 - POSTROCK6 230.00 230KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14622	117.89	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14622	128.8038	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14622	112.7235	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G07_040	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.10423	111.6751	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.12733	111.6751	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_051	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.03654	111.6751	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_124	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.13517	111.6751	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.1451	110.0997	'AXTELL - POST ROCK 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.1451	120.9267	'AXTELL - POST ROCK 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14492	110.5596	'SMOKYHL6 230.00 - SUMMIT 230KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14492	121.3906	'SMOKYHL6 230.00 - SUMMIT 230KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14492	105.4403	'SMOKYHL6 230.00 - SUMMIT 230KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14536	110.4106	'MINGO - SETAB 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14536	121.243	'MINGO - SETAB 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14536	105.2903	'MINGO - SETAB 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14603	111.9072	'CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14603	122.7501	'CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14603	106.8055	'CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03097	95.2	'BENTON - WICHITA 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03435	98.2	'THISTLE7 345.00 - WICHITA 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03435	108.1777	'THISTLE7 345.00 - WICHITA 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03435	98.2	'THISTLE7 345.00 - WICHITA 345KV CKT 2'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03435	108.1777	'THISTLE7 345.00 - WICHITA 345KV CKT 2'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14349	103.9363	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14349	114.699	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14349	98.8	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.12751	103.6459	'FLATRDG3 - THISTLE4 138.00 138KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.12751	114.4321	'FLATRDG3 - THISTLE4 138.00 138KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.07552	98.9	'FLATRDG3 - THISTLE4 138.00 138KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.12751	98.5	'FLATRDG3 - THISTLE4 138.00 138KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.13937	103.3826	'ALEXANDER - NINNES3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.13937	114.1576	'ALEXANDER - NINNES3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.13937	103.9175	'NINNES3 115.00 - ST JOHN 115KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.13937	114.697	'NINNES3 115.00 - ST JOHN 115KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.13937	98.8	'NINNES3 115.00 - ST JOHN 115KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.13937	97.8	'ALEXANDER - SAWYER 3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.13937	108.6101	'ALEXANDER - SAWYER 3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.13937	97.6	'BARBER 3 115.00 - SAWYER 3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.13937	108.3831	'BARBER 3 115.00 - SAWYER 3 115.00 115KV CKT 1'
03ALL	0	14G	G08_092	FROM->TO	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.0366	101.5009	'CRCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_092	FROM->TO	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.0366	99.8	'CRCK 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	0	14G	G08_092	FROM->TO	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.03845	98.4	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_092	FROM->TO	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.03845	96.8	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14807	114.9438	'MULLERGREEN - SPEARVILLE 230KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14807	125.7725	'MULLERGREEN - SPEARVILLE 230KV CKT 1'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14807	109.7885	'MULLERGREN - SPEARVILLE 230KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.144	110.078	'SEWARD - ST JOHN 115KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.144	120.888	'SEWARD - ST JOHN 115KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14791	117.7203	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14791	128.6032	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14791	112.6044	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14791	117.7203	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14791	128.6032	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14791	112.6044	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14603	112.197	'CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14603	123.0467	'CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14603	107.094	'CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1'
03ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	101.6618	'BELDEN - HARTINGTON 115KV CKT 1'
03ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	116.5362	'GAVINS POINT - HARTINGTON 115KV CKT 1'
03ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	107.7135	'BERSFORD - MANNING 115KV CKT 1'
03ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07002	109.1973	'FT RANDAL - UTICA JCT 230KV CKT 1'
03ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	114.7758	'MANNING - SPIRIT MOUND 115KV CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14458	110.0315	'POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14458	120.8538	'POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G07_040	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.08237	96	'POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.10385	96	'POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_124	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.10603	96	'POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.1552	110.7349	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.1552	121.5786	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.1552	105.6355	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.0974	103.688	'MEDICINE LODGE (BARBER 4) 138/115/2.72KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.12751	103.6501	'THISTLE7 345.00 (THISTLE T1) 345/138/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.12751	114.4363	'THISTLE7 345.00 (THISTLE T1) 345/138/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.07552	98.9	'THISTLE7 345.00 (THISTLE T1) 345/138/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.12751	98.5	'THISTLE7 345.00 (THISTLE T1) 345/138/13.8KV TRANSFORMER CKT 1'
03ALL	0	14G	G08_029	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.15677	98.7	'DBL-WICH-THI'
03ALL	0	14G	G07_040	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05382	98.7	'DBL-WICH-THI'
03ALL	0	14G	G08_079	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05216	98.7	'DBL-WICH-THI'
03ALL	0	14G	G08_051	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05379	98.7	'DBL-WICH-THI'
03ALL	0	14G	G08_092	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.03315	98.7	'DBL-WICH-THI'
03ALL	0	14G	G08_124	TO->FROM	'FPL SWITCH - WOODWARD 138KV CKT 1'	153	0.05413	98.7	'DBL-WICH-THI'
03ALL	0	14G	G08_029	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04041	159.2845	'DBL-WICH-THI'
03ALL	0	14G	G07_040	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04875	159.2845	'DBL-WICH-THI'
03ALL	0	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05684	159.2845	'DBL-WICH-THI'
03ALL	0	14G	G08_051	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03642	159.2845	'DBL-WICH-THI'
03ALL	0	14G	G08_124	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05401	159.2845	'DBL-WICH-THI'
03ALL	0	14G	G08_029	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04041	169.3911	'DBL-WICH-THI'
03ALL	0	14G	G07_040	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04875	169.3911	'DBL-WICH-THI'
03ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05684	169.3911	'DBL-WICH-THI'
03ALL	0	14G	G08_051	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03642	169.3911	'DBL-WICH-THI'
03ALL	0	14G	G08_124	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05401	169.3911	'DBL-WICH-THI'
03ALL	0	14G	G08_029	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.03621	101.7876	'DBL-WICH-THI'
03ALL	0	14G	G07_040	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.08729	101.7876	'DBL-WICH-THI'
03ALL	0	14G	G08_079	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.11822	101.7876	'DBL-WICH-THI'
03ALL	0	14G	G08_051	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.03891	101.7876	'DBL-WICH-THI'
03ALL	0	14G	G08_124	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.1085	101.7876	'DBL-WICH-THI'
03ALL	0	14G	G07_040	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.03467	128.7766	'DBL-SPRVL-CL'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.16223	128.7766	'DBL-SPRVL-CL'
03ALL	0	14G	G07_040	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.03467	139.702	'DBL-SPRVL-CL'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.16223	139.702	'DBL-SPRVL-CL'
03ALL	0	14G	G07_040	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.03467	123.6971	'DBL-SPRVL-CL'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.16223	123.6971	'DBL-SPRVL-CL'
03ALL	0	14G	G07_040	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.12614	99.7	'DBL-SPRVL-CL'
03ALL	0	14G	G08_079	TO->FROM	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.14624	99.7	'DBL-SPRVL-CL'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.1568	114.6485	'SPP-SEPC-14'
03ALL	0	14G	G08_092	FROM->TO	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.0366	97	'SPP-MKEC-01'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14349	100.9152	'SPP-MKEC-05'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14349	111.6551	'SPP-MKEC-05'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14349	95.8	'SPP-MKEC-05'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.144	110.0797	'SPP-MKEC-06'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.144	120.8984	'SPP-MKEC-06'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.09747	103.5349	'SPP-MKEC-08'
03ALL	0	14G	G08_092	FROM->TO	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	318.7	0.03845	96.4	'SPP-MKEC-09A'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.13937	97.6	'SPP-MKEC-12'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.13937	108.3755	'SPP-MKEC-12'
03ALL	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14349	101.0624	'SPP-MKEC-03A'
03ALL	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14349	111.804	'SPP-MKEC-03A'
03ALL	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14349	95.9	'SPP-MKEC-03A'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14349	103.6099	'SPP-MKEC-03B'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14349	114.3892	'SPP-MKEC-03B'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14349	98.5	'SPP-MKEC-03B'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14947	123.3834	'SPP-SWPS-05'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14947	134.3353	'SPP-SWPS-05'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14947	118.2265	'SPP-SWPS-05'
03ALL	0	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	116.7322	'NEBO2WAPAB2'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	103.6195	'GEN523117 1-BUFF DUNES210.6900'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	114.3802	'GEN523117 1-BUFF DUNES210.6900'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	101.0241	'GEN531447 1-HOLCOMB GENERATOR'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	111.7732	'GEN531447 1-HOLCOMB GENERATOR'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14429	96	'GEN531447 1-HOLCOMB GENERATOR'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	101.0786	'GEN539767 1-GRAY COUNTY WIND FARM'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	95.4	'GEN539785 1-ENSNW 1 0.5750'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	106.1144	'GEN539785 1-ENSNW 1 0.5750'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	103.1424	'GEN542902 1-GPW_G1 0.6900'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	113.9036	'GEN542902 1-GPW_G1 0.6900'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14429	98.1	'GEN542902 1-GPW_G1 0.6900'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	102.771	'GEN560514 1-G04_014 0.6900'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	113.5202	'GEN560514 1-G04_014 0.6900'
03ALL	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.14429	97.7	'GEN560514 1-G04_014 0.6900'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	103.6131	'GEN659118 1-LARAMIE RIVER UNIT1'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	114.3783	'GEN659118 1-LARAMIE RIVER UNIT1'
03ALL	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.14429	103.8442	'GEN539653 1-CIMARRON RIVER PLANT GENERATOR'
03ALL	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14429	114.6218	'GEN539653 1-CIMARRON RIVER PLANT GENERATOR'
03G07_040	0	14G	G07_040	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04902	135.1758	'DBL-WICH-THI'
03G07_040	0	14G	G07_040	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04902	145.5273	'DBL-WICH-THI'
03G07_040	0	14G	G07_040	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.03528	123.4721	'DBL-THIS-CLR'
03G07_040	0	14G	G07_040	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.03528	134.3469	'DBL-THIS-CLR'
03G07_040	0	14G	G07_040	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.03528	118.4652	'DBL-THIS-CLR'
03G07_040	0	14G	G07_040	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.1267	104.5522	'DBL-THIS-CLR'
03G07_040	0	14G	G07_040	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.03528	100.2792	'DBL-SPRVL-CL'
03G07_040	0	14G	G07_040	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.03528	110.9738	'DBL-SPRVL-CL'
03G07_040	0	14G	G07_040	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.03528	95.3	'DBL-SPRVL-CL'
03G07_040	0	14G	G07_040	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.03528	122.9661	'DBL-IRON-CLR'
03G07_040	0	14G	G07_040	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.03528	133.8435	'DBL-IRON-CLR'
03G07_040	0	14G	G07_040	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.03528	117.9428	'DBL-IRON-CLR'
03G07_040	0	14G	G07_040	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.1267	104.2353	'DBL-IRON-CLR'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.15004	95.9	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.15004	106.5749	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.1468	102.2143	'POST ROCK - SPEARVILLE 345KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.1466	98.6	'CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14865	101.5341	'MULLERGREN - SPEARVILLE 230KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14456	98	'SEWARD - ST JOHN 115KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14848	102.7223	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14848	102.7223	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.1466	98.8	'CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.15578	98.4	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.19357	103.9568	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.19357	114.732	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.19357	99	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
03G08_079	0	14G	G08_079	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05711	134.1933	'DBL-WICH-THI'
03G08_079	0	14G	G08_079	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05711	144.551	'DBL-WICH-THI'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.16284	124.3212	'DBL-THIS-CLR'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.16284	135.213	'DBL-THIS-CLR'
03G08_079	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.16284	119.315	'DBL-THIS-CLR'
03G08_079	0	14G	G08_079	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.1468	103.5841	'DBL-THIS-CLR'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.16284	101.3034	'DBL-SPRVL-CL'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.16284	112.0135	'DBL-SPRVL-CL'
03G08_079	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.16284	96.3	'DBL-SPRVL-CL'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.16284	124.0386	'DBL-IRON-CLR'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.16284	134.9273	'DBL-IRON-CLR'
03G08_079	0	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.16284	119.0177	'DBL-IRON-CLR'
03G08_079	0	14G	G08_079	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.1468	103.3149	'DBL-IRON-CLR'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.14456	98	'SPP-MKEC-06'
03G08_079	0	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.15004	96.1	'SPP-SWPS-05'
03G08_079	0	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.15004	106.7866	'SPP-SWPS-05'
03G08_124	0	14G	G08_124	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05426	138.14	'DBL-WICH-THI'
03G08_124	0	14G	G08_124	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05426	148.4669	'DBL-WICH-THI'
03G08_124	0	14G	G08_124	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.041	126.7749	'DBL-THIS-CLR'
03G08_124	0	14G	G08_124	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.041	137.6998	'DBL-THIS-CLR'
03G08_124	0	14G	G08_124	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.041	121.7672	'DBL-THIS-CLR'
03G08_124	0	14G	G08_124	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.16092	108.2129	'DBL-THIS-CLR'
03G08_124	0	14G	G08_124	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.041	126.32	'DBL-IRON-CLR'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
03G08_124	0	14G	G08_124	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.041	137.2409	'DBL-IRON-CLR'
03G08_124	0	14G	G08_124	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.041	121.29	'DBL-IRON-CLR'
03G08_124	0	14G	G08_124	TO->FROM	'MULLERGREN -SPEARVILLE 230KV CKT 1'	318.7	0.16092	107.8172	'DBL-IRON-CLR'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.15007	103.6163	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14683	99.3	'POST ROCK -SPEARVILLE 345KV CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14663	95.8	'CLARKCOUNTY7345.00 -SPEARVILLE 345KV CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14868	98.7	'MULLERGREN -SPEARVILLE 230KV CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14459	95.4	'SEWARD -ST JOHN 115KV CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14851	99.9	'CLARKCOUNTY7345.00 -THISTLE7 345.00 345KV CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14851	99.9	'CLARKCOUNTY7345.00 -THISTLE7 345.00 345KV CKT 2'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14663	95.9	'CLARKCOUNTY7345.00 -IRONWOOD7 345.00 345KV CKT 1'
3	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	101.1071	'BELDEN - HARTINGTON 115KV CKT 1'
3	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	115.9707	'GAVINS POINT - HARTINGTON 115KV CKT 1'
3	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	107.1406	'BERSFORD - MANNING 115KV CKT 1'
3	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	108.2915	'FT RANDAL - UTICA JCT 230KV CKT 1'
3	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	114.1991	'MANNING - SPIRIT MOUND 115KV CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.15582	95.4	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.19361	99.4	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.19361	110.0999	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
3	0	14G	G08_029	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.0407	132.9872	'DBL-WICH-THI'
3	0	14G	G07_040	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04904	132.9872	'DBL-WICH-THI'
3	0	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05713	132.9872	'DBL-WICH-THI'
3	0	14G	G08_051	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03671	132.9872	'DBL-WICH-THI'
3	0	14G	G08_124	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.0543	132.9872	'DBL-WICH-THI'
3	0	14G	G08_029	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.0407	143.3527	'DBL-WICH-THI'
3	0	14G	G07_040	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04904	143.3527	'DBL-WICH-THI'
3	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05713	143.3527	'DBL-WICH-THI'
3	0	14G	G08_051	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03671	143.3527	'DBL-WICH-THI'
3	0	14G	G08_124	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.0543	143.3527	'DBL-WICH-THI'
3	0	14G	G07_040	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.03532	121.1614	'DBL-THIS-CLR'
3	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.16288	121.1614	'DBL-THIS-CLR'
3	0	14G	G08_124	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.04108	121.1614	'DBL-THIS-CLR'
3	0	14G	G07_040	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.03532	132.0078	'DBL-THIS-CLR'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.16288	132.0078	'DBL-THIS-CLR'
3	0	14G	G08_124	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.04108	132.0078	'DBL-THIS-CLR'
3	0	14G	G07_040	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.03532	116.1574	'DBL-THIS-CLR'
3	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.16288	116.1574	'DBL-THIS-CLR'
3	0	14G	G08_124	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.04108	116.1574	'DBL-THIS-CLR'
3	0	14G	G07_040	TO->FROM	'MULLERGREN -SPEARVILLE 230KV CKT 1'	318.7	0.12673	102.4427	'DBL-THIS-CLR'
3	0	14G	G08_079	TO->FROM	'MULLERGREN -SPEARVILLE 230KV CKT 1'	318.7	0.14683	102.4427	'DBL-THIS-CLR'
3	0	14G	G08_124	TO->FROM	'MULLERGREN -SPEARVILLE 230KV CKT 1'	318.7	0.161	102.4427	'DBL-THIS-CLR'
3	0	14G	G07_040	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.03532	98.1	'DBL-SPRVL-CL'
3	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.16288	98.1	'DBL-SPRVL-CL'
3	0	14G	G07_040	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.03532	108.7981	'DBL-SPRVL-CL'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.16288	108.7981	'DBL-SPRVL-CL'
3	0	14G	G07_040	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.03532	120.8128	'DBL-IRON-CLR'
3	0	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.16288	120.8128	'DBL-IRON-CLR'
3	0	14G	G08_124	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.04108	120.8128	'DBL-IRON-CLR'
3	0	14G	G07_040	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.03532	131.6396	'DBL-IRON-CLR'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.16288	131.6396	'DBL-IRON-CLR'
3	0	14G	G08_124	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.04108	131.6396	'DBL-IRON-CLR'
3	0	14G	G07_040	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.03532	115.7816	'DBL-IRON-CLR'
3	0	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.16288	115.7816	'DBL-IRON-CLR'
3	0	14G	G08_124	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.04108	115.7816	'DBL-IRON-CLR'
3	0	14G	G07_040	TO->FROM	'MULLERGREN -SPEARVILLE 230KV CKT 1'	318.7	0.12673	102.1939	'DBL-IRON-CLR'
3	0	14G	G08_079	TO->FROM	'MULLERGREN -SPEARVILLE 230KV CKT 1'	318.7	0.14683	102.1939	'DBL-IRON-CLR'
3	0	14G	G08_124	TO->FROM	'MULLERGREN -SPEARVILLE 230KV CKT 1'	318.7	0.161	102.1939	'DBL-IRON-CLR'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.14459	95.3	'SPP-MKEC-06'
3	0	14G	G08_079	TO->FROM	'GREENSBURG -SSTARTP3 115.00 115KV CKT 1'	115.1	0.15007	104.0265	'SPP-SWPS-05'
3	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	116.1726	'NEB02WAPAB2'
04ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	100.9701	'BELDEN - HARTINGTON 115KV CKT 1'
04ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	115.8317	'GAVINS POINT - HARTINGTON 115KV CKT 1'
04ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	107.061	'BERSFORD - MANNING 115KV CKT 1'
04ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	108.0785	'FT RANDAL - UTICA JCT 230KV CKT 1'
04ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	114.1185	'MANNING - SPIRIT MOUND 115KV CKT 1'
04ALL	0	14G	G08_029	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04094	100.5018	'DBL-WICH-THI'
04ALL	0	14G	G07_040	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04928	100.5018	'DBL-WICH-THI'
04ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05737	100.5018	'DBL-WICH-THI'
04ALL	0	14G	G08_051	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03695	100.5018	'DBL-WICH-THI'
04ALL	0	14G	G08_124	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05455	100.5018	'DBL-WICH-THI'
04ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	116.0334	'NEB02WAPAB2'
4	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	100.6181	'BELDEN - HARTINGTON 115KV CKT 1'
4	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	115.4754	'GAVINS POINT - HARTINGTON 115KV CKT 1'
4	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	106.6597	'BERSFORD - MANNING 115KV CKT 1'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
4	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	107.4821	'FT RANDAL - UTICA JCT 230KV CKT 1'
4	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	113.7137	'MANNING - SPIRIT MOUND 115KV CKT 1'
4	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	115.6781	'NEB02WAPAB2'
05ALL	0	14G	G09_025	FROM->TO	'LAWEASOKLUNI'	425	0.0409	98.4	'BASE CASE'
05ALL	0	14G	G08_023	FROM->TO	'LAWEASOKLUNI'	425	0.05659	98.4	'BASE CASE'
05ALL	0	14G	G08_051	FROM->TO	'BUFFALO 230.00 - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'	350.5669	0.03543	97.6	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
05ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	100.0977	'BELDEN - HARTINGTON 115KV CKT 1'
05ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	114.9536	'GAVINS POINT - HARTINGTON 115KV CKT 1'
05ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	105.8037	'BERSFORD - MANNING 115KV CKT 1'
05ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	106.495	'FT RANDAL - UTICA JCT 230KV CKT 1'
05ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	112.855	'MANNING - SPIRIT MOUND 115KV CKT 1'
05ALL	0	14G	G08_029	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04073	102.1828	'DBL-WICH-THI'
05ALL	0	14G	G07_040	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04907	102.1828	'DBL-WICH-THI'
05ALL	0	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05716	102.1828	'DBL-WICH-THI'
05ALL	0	14G	G08_051	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03674	102.1828	'DBL-WICH-THI'
05ALL	0	14G	G08_124	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05434	102.1828	'DBL-WICH-THI'
05ALL	0	14G	G08_029	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04073	112.7869	'DBL-WICH-THI'
05ALL	0	14G	G07_040	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04907	112.7869	'DBL-WICH-THI'
05ALL	0	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05716	112.7869	'DBL-WICH-THI'
05ALL	0	14G	G08_051	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03674	112.7869	'DBL-WICH-THI'
05ALL	0	14G	G08_124	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05434	112.7869	'DBL-WICH-THI'
05ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	115.1549	'NEB02WAPAB2'
05ALL	0	14G	G07_040	FROM->TO	'BUFFALO 230.00 - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'	350.5669	0.03053	107.9837	'GEN525561 1-TOLK GEN #1 24 KV'
05ALL	0	14G	G08_051	FROM->TO	'BUFFALO 230.00 - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'	350.5669	0.08538	107.9837	'GEN525561 1-TOLK GEN #1 24 KV'
05ALL	0	14G	G07_040	FROM->TO	'BUFFALO 230.00 - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'	350.5669	0.03053	107.0588	'GEN525562 1-TOLK GEN #2 24 KV'
05ALL	0	14G	G08_051	FROM->TO	'BUFFALO 230.00 - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'	350.5669	0.08538	107.0588	'GEN525562 1-TOLK GEN #2 24 KV'
05G08_051	0	14G	G08_051	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03684	95.1	'DBL-WICH-THI'
05G08_051	0	14G	G08_051	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03684	105.751	'DBL-WICH-THI'
5	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	100	'BELDEN - HARTINGTON 115KV CKT 1'
5	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	114.8252	'GAVINS POINT - HARTINGTON 115KV CKT 1'
5	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	105.7229	'BERSFORD - MANNING 115KV CKT 1'
5	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	106.3115	'FT RANDAL - UTICA JCT 230KV CKT 1'
5	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	112.7762	'MANNING - SPIRIT MOUND 115KV CKT 1'
07ALL	0	14G	G08_023	TO->FROM	'CLINTON - G07-32T 138.00 138KV CKT 1'	143	0.06536	96.6	'HINTON - WEATHERFORD JCT. 138KV CKT 1'
07ALL	0	14G	G08_023	TO->FROM	'CLINTON - G07-32T 138.00 138KV CKT 1'	143	0.06536	95.5	'Canadian Pump Station - HINTON 138KV CKT 1'
07ALL	0	14G	G08_023	TO->FROM	'CLINTON - G07-32T 138.00 138KV CKT 1'	143	0.06536	99.2	'WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'CLINTON CITY - THOMAS TAP 69KV CKT 1'	48	0.03129	119.7449	'WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1'
07ALL	0	14G	G08_023	TO->FROM	'CLINTON CITY - FOSS TAP 69KV CKT 1'	79	0.03129	100.9531	'WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'THOMAS TAP - WEATHERFORD 69KV CKT 1'	48	0.03129	113.2176	'WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'CLINTON JUNCTION - FOSS TAP 69KV CKT 1'	79	0.03129	101.5384	'WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'CLINTON CITY - THOMAS TAP 69KV CKT 1'	48	0.03129	127.8368	'WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1'
07ALL	0	14G	G08_023	TO->FROM	'CLINTON CITY - FOSS TAP 69KV CKT 1'	79	0.03129	105.7529	'WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'THOMAS TAP - WEATHERFORD 69KV CKT 1'	48	0.03129	121.2629	'WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'CLINTON JUNCTION - FOSS TAP 69KV CKT 1'	79	0.03129	106.3359	'WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'GRAPEVINE INTERCHANGE (PENN 0257751) 230/115/13.2KV TRANSFORMER CKT 1'	112	0.07358	113.7089	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
07ALL	0	14G	G08_023	FROM->TO	'GRAPEVINE INTERCHANGE (PENN 0257751) 230/115/13.2KV TRANSFORMER CKT 1'	112	0.07358	117.0194	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
07ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	99.5	'BELDEN - HARTINGTON 115KV CKT 1'
07ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.325	'GAVINS POINT - HARTINGTON 115KV CKT 1'
07ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07977	104.827	'BERSFORD - MANNING 115KV CKT 1'
07ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07004	105.3354	'FT RANDAL - UTICA JCT 230KV CKT 1'
07ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07977	111.8779	'MANNING - SPIRIT MOUND 115KV CKT 1'
07ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.5253	'NEB02WAPAB2'
07G08_023	0	14G	G08_023	FROM->TO	'CLINTON CITY - THOMAS TAP 69KV CKT 1'	48	0.0313	101.2835	'WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1'
7	0	14G	G08_023	FROM->TO	'CLINTON CITY - THOMAS TAP 69KV CKT 1'	48	0.0313	99.4	'WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1'
7	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	99.5	'BELDEN - HARTINGTON 115KV CKT 1'
7	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.3958	'GAVINS POINT - HARTINGTON 115KV CKT 1'
7	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07976	105.1099	'BERSFORD - MANNING 115KV CKT 1'
7	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07004	105.5439	'FT RANDAL - UTICA JCT 230KV CKT 1'
7	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07976	112.1612	'MANNING - SPIRIT MOUND 115KV CKT 1'
7	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.5965	'NEB02WAPAB2'
08ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	99.6	'BELDEN - HARTINGTON 115KV CKT 1'
08ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.4258	'GAVINS POINT - HARTINGTON 115KV CKT 1'
08ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07976	105.3681	'BERSFORD - MANNING 115KV CKT 1'
08ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	105.7043	'FT RANDAL - UTICA JCT 230KV CKT 1'
08ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07976	112.4174	'MANNING - SPIRIT MOUND 115KV CKT 1'
8	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.628	'NEB02WAPAB2'
8	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	99.6	'BELDEN - HARTINGTON 115KV CKT 1'
8	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.433	'GAVINS POINT - HARTINGTON 115KV CKT 1'
8	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	105.4006	'BERSFORD - MANNING 115KV CKT 1'
8	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	105.7249	'FT RANDAL - UTICA JCT 230KV CKT 1'
8	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	112.45	'MANNING - SPIRIT MOUND 115KV CKT 1'
8	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08089	114.6352	'NEB02WAPAB2'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06804	124.7117	'BASE CASE'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.0681	103.4244	'KELLY - MADISONCO 230.00 230KV CKT 1'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.0908	118.5083	'ALBION - GENOA 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'KELLY - MADISONCO 230.00 230KV CKT 1'	192	0.03972	96.6	'ALBION - PETERSBURG 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.12454	124.1443	'ALBION - PETERSBURG 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.09592	125.3556	'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.09592	124.1308	'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
09ALL	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09748	104.2986	'BELDEN - HARTINGTON 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08083	159.8667	'BELDEN - HARTINGTON 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07377	123.2537	'BELDEN - TWIN CHURCH 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.09592	125.4765	'COUNTY LINE - NEUGH 115KV CKT 1'
09ALL	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09748	114.5815	'GAVINS POINT - HARTINGTON 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08083	174.7278	'GAVINS POINT - HARTINGTON 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'KELLY - MADISONCO 230.00 230KV CKT 1'	192	0.03972	96.6	'PETERSBRG.N7115.00 - PETERSBURG 115KV CKT Z1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.12454	124.2894	'PETERSBRG.N7115.00 - PETERSBURG 115KV CKT Z1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06355	99.8	'SIOUX FALLS - VFODNES 230KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07436	99.4	'FT RANDAL - WHITE SWAN 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07436	100.8178	'TYNDALL - WHITE SWAN 115KV CKT 1'
09ALL	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09565	104.2863	'BERSFORD - MANNING 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07966	160.5478	'BERSFORD - MANNING 115KV CKT 1'
09ALL	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09565	95.2	'BERSFORD - SIOUX FALLS 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07966	147.2848	'BERSFORD - SIOUX FALLS 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06796	119.7076	'FT THOMPSON - LETCHER 230KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06994	157.6895	'FT RANDAL - UTICA JCT 230KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07966	107.6266	'GAVINS POINT - SPIRIT MOUND 115KV CKT 1'
09ALL	0	14G	G06_044N	FROM->TO	'GAVINS POINT - HARTINGTON 115KV CKT 1'	120	0.06435	107.4347	'GAVINS POINT - YANKON JCT 115KV CKT 1'
09ALL	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09565	109.0981	'MANNING - SPIRIT MOUND 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07966	167.6436	'MANNING - SPIRIT MOUND 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.0631	97	'RASMUSN - SIOUX CITY 230KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06341	101.4888	'MENNO JCT - UTICA 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06341	106.1483	'MITCHELL - TRIPP JCT 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06341	103.5273	'MENNO JCT - TRIPP JCT 115KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06706	108.3034	'SIOUX FALLS - SPLIT ROCK 230KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06742	120.762	'RAUN - SIOUX CITY 345KV CKT 1'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.09592	125.7567	'LN-1163'
09ALL	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.11953	122.5121	'WAPA-OG-2'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06811	110.1496	'BASE CASE'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.09088	104.8988	'ALBION - GENOA 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.12459	111.5694	'ALBION - PETERSBURG 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.096	110.9679	'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.096	109.7278	'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	143.6085	'BELDEN - HARTINGTON 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07385	108.9376	'BELDEN - TWIN CHURCH 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.096	111.09	'COUNTY LINE - NEUGH 115KV CKT 1'
09G06_044N	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09753	104.6133	'GAVINS POINT - HARTINGTON 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	158.4688	'GAVINS POINT - HARTINGTON 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.12459	111.794	'PETERSBRG.N7115.00 - PETERSBURG 115KV CKT Z1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	144.8071	'BERSFORD - MANNING 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	131.5464	'BERSFORD - SIOUX FALLS 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06804	106.3783	'FT THOMPSON - LETCHER 230KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	142.8276	'FT RANDAL - UTICA JCT 230KV CKT 1'
09G06_044N	0	14G	G06_044N	FROM->TO	'GAVINS POINT - HARTINGTON 115KV CKT 1'	120	0.06435	100	'GAVINS POINT - YANKON JCT 115KV CKT 1'
09G06_044N	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09575	99.5	'MANNING - SPIRIT MOUND 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	151.8651	'MANNING - SPIRIT MOUND 115KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07433	95.7	'HOSKINS (HOSKN T4) 345/115/13.8KV TRANSFORMER CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06713	95.4	'SIOUX FALLS - SPLIT ROCK 230KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06749	107.5281	'RAUN - SIOUX CITY 345KV CKT 1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.096	111.3736	'LN-1163'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.11962	106.9924	'WAPA-OG-2'
09G06_044N	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09753	104.7569	'NEB02WAPAB2'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	158.6475	'NEB02WAPAB2'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06811	107.5612	'GEN659103 1-ANTELOPE VALLEY UNIT1'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06811	107.5612	'GEN659107 2-ANTELOPE VALLEY UNIT2'
09G06_044N	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06811	107.082	'GEN659111 2-LELAND OLDS UNIT2'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06811	107.6381	'BASE CASE'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.12459	107.6584	'ALBION - PETERSBURG 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.096	107.7592	'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.096	106.514	'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	140.8144	'BELDEN - HARTINGTON 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07385	106.4604	'BELDEN - TWIN CHURCH 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.096	107.8828	'COUNTY LINE - NEUGH 115KV CKT 1'
9	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09753	102.8562	'GAVINS POINT - HARTINGTON 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	155.6694	'GAVINS POINT - HARTINGTON 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.12459	107.8076	'PETERSBRG.N7115.00 - PETERSBURG 115KV CKT Z1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	142.1342	'BERSFORD - MANNING 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	128.8793	'BERSFORD - SIOUX FALLS 115KV CKT 1'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06804	104.0924	'FT THOMPSON - LETCHER 230KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	140.4719	'FT RANDAL - UTICA JCT 230KV CKT 1'
9	0	14G	G06_044N	FROM->TO	'GAVINS POINT - HARTINGTON 115KV CKT 1'	120	0.06435	98.8	'GAVINS POINT - YANKON JCT 115KV CKT 1'
9	0	14G	G06_044N	FROM->TO	'GAVINS POINT - YANKON JCT 115KV CKT 1'	128	0.09575	97.8	'MANNING - SPIRIT MOUND 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	149.1922	'MANNING - SPIRIT MOUND 115KV CKT 1'
9	0	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.06749	105.2722	'RAUN - SIOUX CITY 345KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.08805	101.6087	'BASE CASE'
03ALL	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.09313	104.398	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09313	115.2196	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
03ALL	2	14G	G08_092	TO->FROM	'HAYS PLANT - SOUTH HAYS 115KV CKT 1'	99	0.10659	101.6869	'KNOLL 230 - POSTROCK6 230.00 230KV CKT 1'
03ALL	2	14G	G08_124	TO->FROM	'HAYS PLANT - SOUTH HAYS 115KV CKT 1'	99	0.03328	101.6869	'KNOLL 230 - POSTROCK6 230.00 230KV CKT 1'
03ALL	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.09119	101.5189	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09119	112.3155	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G08_029	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.03022	110.6441	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G07_040	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.10528	110.6441	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.12135	110.6441	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G08_051	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.03697	110.6441	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G08_124	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.13664	110.6441	'POST ROCK - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.08879	105.0161	'SMOKYHL6 230.00 - SUMMIT 230KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09039	107.1169	'CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1'
03ALL	2	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03153	107.4829	'THISTLE7 345.00 - WICHITA 345KV CKT 1'
03ALL	2	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03153	107.4829	'THISTLE7 345.00 - WICHITA 345KV CKT 2'
03ALL	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.11932	100.5607	'CRCKC 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11932	111.3732	'CRCKC 3 115.00 - CUDAHY 115KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09091	108.8013	'MULLERGREEN - SPEARVILLE 230KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.08846	105.4173	'SEWARD - ST JOHN 115KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.1207	110.3466	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.1207	110.3466	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 2'
03ALL	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.09292	102.6497	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09292	113.4271	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1'
03ALL	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.09292	102.6497	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09292	113.4271	'CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09039	107.4305	'CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1'
03ALL	2	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	101.6672	'BELDEN - HARTINGTON 115KV CKT 1'
03ALL	2	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	116.5415	'GAVINS POINT - HARTINGTON 115KV CKT 1'
03ALL	2	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	107.7223	'BERSFORD - MANNING 115KV CKT 1'
03ALL	2	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07002	109.2006	'FT RANDAL - UTICA JCT 230KV CKT 1'
03ALL	2	14G	G06_044N	TO->FROM	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	114.7849	'MANNING - SPIRIT MOUND 115KV CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.08876	105.09	'POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11649	109.7772	'SPEARVILLE (SPEARVILLE) 345/115/13.8KV TRANSFORMER CKT 1'
03ALL	2	14G	G08_029	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04048	158.5266	'DBL-WICH-THI'
03ALL	2	14G	G07_040	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04887	158.5266	'DBL-WICH-THI'
03ALL	2	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05458	158.5266	'DBL-WICH-THI'
03ALL	2	14G	G08_051	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03648	158.5266	'DBL-WICH-THI'
03ALL	2	14G	G08_124	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.0542	158.5266	'DBL-WICH-THI'
03ALL	2	14G	G08_029	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04048	168.6846	'DBL-WICH-THI'
03ALL	2	14G	G07_040	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04887	168.6846	'DBL-WICH-THI'
03ALL	2	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05458	168.6846	'DBL-WICH-THI'
03ALL	2	14G	G08_051	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03648	168.6846	'DBL-WICH-THI'
03ALL	2	14G	G08_124	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.0542	168.6846	'DBL-WICH-THI'
03ALL	2	14G	G08_029	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.03678	100.1211	'DBL-WICH-THI'
03ALL	2	14G	G07_040	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.08853	100.1211	'DBL-WICH-THI'
03ALL	2	14G	G08_079	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.1062	100.1211	'DBL-WICH-THI'
03ALL	2	14G	G08_051	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.03947	100.1211	'DBL-WICH-THI'
03ALL	2	14G	G08_124	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.11029	100.1211	'DBL-WICH-THI'
03ALL	2	14G	G07_040	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.04054	115.6564	'DBL-SPRVL-CL'
03ALL	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.11202	115.6564	'DBL-SPRVL-CL'
03ALL	2	14G	G07_040	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.04054	126.499	'DBL-SPRVL-CL'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11202	126.499	'DBL-SPRVL-CL'
03ALL	2	14G	G07_040	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.04054	110.6069	'DBL-SPRVL-CL'
03ALL	2	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.11202	110.6069	'DBL-SPRVL-CL'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11932	110.5018	'SPP-MKEC-01'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.08846	105.4302	'SPP-MKEC-06'
03ALL	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.09313	104.5882	'SPP-SWPS-05'
03ALL	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.09313	115.4152	'SPP-SWPS-05'
03G08_079	2	14G	G08_079	TO->FROM	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05483	133.6702	'DBL-WICH-THI'
03G08_079	2	14G	G08_079	FROM->TO	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05483	144.0482	'DBL-WICH-THI'
03G08_079	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.11241	117.1434	'DBL-THIS-CLR'
03G08_079	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11241	127.9967	'DBL-THIS-CLR'
03G08_079	2	14G	G08_079	TO->FROM	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.11241	112.1491	'DBL-THIS-CLR'
03G08_079	2	14G	G08_079	TO->FROM	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	318.7	0.14296	103.3088	'DBL-THIS-CLR'
03G08_079	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11241	103.288	'DBL-SPRVL-CL'
03G08_079	2	14G	G08_079	FROM->TO	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.11241	116.7236	'DBL-IRON-CLR'
03G08_079	2	14G	G08_079	TO->FROM	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11241	127.5656	'DBL-IRON-CLR'

GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED NAME	RATEB	TDF	TC % LOADING	CONTINGENCY NAME
03G08_079	2	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.11241	111.7157	'DBL-IRON-CLR'
03G08_079	2	14G	G08_079	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.14296	103.0151	'DBL-IRON-CLR'
3	2	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	101.1114	'BELDEN - HARTINGTON 115KV CKT 1'
3	2	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.08088	115.9747	'GAVINS POINT - HARTINGTON 115KV CKT 1'
3	2	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	107.1468	'BERSFORD - MANNING 115KV CKT 1'
3	2	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07003	108.2951	'FT RANDAL - UTICA JCT 230KV CKT 1'
3	2	14G	G06_044N	'TO->FROM'	'UTICA - YANKON JCT 115KV CKT 1'	66	0.07975	114.2062	'MANNING - SPIRIT MOUND 115KV CKT 1'
3	2	14G	G08_029	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04074	132.5756	'DBL-WICH-THI'
3	2	14G	G07_040	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.04914	132.5756	'DBL-WICH-THI'
3	2	14G	G08_079	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05485	132.5756	'DBL-WICH-THI'
3	2	14G	G08_051	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.03675	132.5756	'DBL-WICH-THI'
3	2	14G	G08_124	'TO->FROM'	'CLEARWATER - MILAN TAP 138KV CKT 1'	110	0.05447	132.5756	'DBL-WICH-THI'
3	2	14G	G08_029	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04074	142.9645	'DBL-WICH-THI'
3	2	14G	G07_040	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.04914	142.9645	'DBL-WICH-THI'
3	2	14G	G08_079	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05485	142.9645	'DBL-WICH-THI'
3	2	14G	G08_051	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.03675	142.9645	'DBL-WICH-THI'
3	2	14G	G08_124	'FROM->TO'	'HARPER - MILAN TAP 138KV CKT 1'	110	0.05447	142.9645	'DBL-WICH-THI'
3	2	14G	G07_040	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.04094	115.077	'DBL-THIS-CLR'
3	2	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.11242	115.077	'DBL-THIS-CLR'
3	2	14G	G08_124	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.04922	115.077	'DBL-THIS-CLR'
3	2	14G	G07_040	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.04094	125.8842	'DBL-THIS-CLR'
3	2	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11242	125.8842	'DBL-THIS-CLR'
3	2	14G	G08_124	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.04922	125.8842	'DBL-THIS-CLR'
3	2	14G	G07_040	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.04094	110.0831	'DBL-THIS-CLR'
3	2	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.11242	110.0831	'DBL-THIS-CLR'
3	2	14G	G08_124	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.04922	110.0831	'DBL-THIS-CLR'
3	2	14G	G07_040	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.128	102.258	'DBL-THIS-CLR'
3	2	14G	G08_079	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.14299	102.258	'DBL-THIS-CLR'
3	2	14G	G08_124	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.16269	102.258	'DBL-THIS-CLR'
3	2	14G	G07_040	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.04094	101.1813	'DBL-SPRVL-CL'
3	2	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11242	101.1813	'DBL-SPRVL-CL'
3	2	14G	G07_040	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.04094	114.6606	'DBL-IRON-CLR'
3	2	14G	G08_079	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.11242	114.6606	'DBL-IRON-CLR'
3	2	14G	G08_124	'FROM->TO'	'GREENSBURG - SUN CITY 115KV CKT 1'	115.1	0.04922	114.6606	'DBL-IRON-CLR'
3	2	14G	G07_040	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.04094	125.4609	'DBL-IRON-CLR'
3	2	14G	G08_079	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.11242	125.4609	'DBL-IRON-CLR'
3	2	14G	G08_124	'TO->FROM'	'GREENSBURG - SSTARTP3 115.00 115KV CKT 1'	115.1	0.04922	125.4609	'DBL-IRON-CLR'
3	2	14G	G07_040	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.04094	109.6499	'DBL-IRON-CLR'
3	2	14G	G08_079	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.11242	109.6499	'DBL-IRON-CLR'
3	2	14G	G08_124	'TO->FROM'	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	115.1	0.04922	109.6499	'DBL-IRON-CLR'
3	2	14G	G07_040	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.128	101.9871	'DBL-IRON-CLR'
3	2	14G	G08_079	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.14299	101.9871	'DBL-IRON-CLR'
3	2	14G	G08_124	'TO->FROM'	'MULLERGREN - SPEARVILLE 230KV CKT 1'	318.7	0.16269	101.9871	'DBL-IRON-CLR'

I: Category “C” Contingencies

AVAILABLE ON REQUEST