



**PID 234**  
**Feasibility Study Report**  
**199 MW Plant**

**Prepared by:**

**Southwest Power Pool**  
**Independent Coordinator of Transmission**  
**415 N. McKinley, Suite 140**  
**Little Rock, AR 72205**

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# Section – A

Energy Resource Interconnection Service

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# **I. Introduction**

This Energy Resource Interconnection Service (ERIS) is based on PID 234 199MW request for interconnection on Entergy's transmission system between Marshall and Botkinburg substations located at PID-234 Wilson 161kV substation. The objective of this study is to assess the reliability impact of the new facility on the Entergy transmission system with respect to the steady state and transient stability performance of the system as well as its effects on the system's existing short circuit current capability. It is also intended to determine whether the transmission system meets standards established by NERC Reliability Standards and Entergy's planning guidelines when plant is connected to Entergy's transmission system. If not, transmission improvements will be identified. NRIS analysis will be performed during the system impact study.

The Feasibility Study process required a load flow analysis to determine if the existing transmission lines are adequate to handle the full output from the plant for simulated transfers to adjacent control areas. A short circuit analysis is performed to determine if the generation would cause the available fault current to surpass the fault duty of existing equipment within the Entergy transmission system.

This ERIS Feasibility Study was based on information provided by PID 234 customer and assumptions made by Entergy's Transmission Technical System Planning group. All supplied information and assumptions are documented in this report. If the actual equipment installed is different from the supplied information or the assumptions made, the results outlined in this report are subject to change.

The load flow results from the ERIS study are for information only. ERIS does not in and of itself convey any transmission service.

## **II. Short Circuit Analysis / Breaker Rating Analysis**

### **A. Model Information**

The short circuit analysis was performed on the Entergy system short circuit model using ASPEN software. This model includes all generators interconnected to the Entergy system or interconnected to an adjacent system and having an impact on this interconnection request, IPP's with signed IOAs, and approved future transmission projects on the Entergy transmission system.

### **B. Short Circuit Analysis**

The method used to determine if any short circuit problems would be caused by the addition of the PID-234 generation is as follows:

Three phase and single phase to ground faults were simulated on the Entergy base case short circuit model and the worst case short circuit level was determined at each station. The PID-234 generator was then modeled in the base case to generate a revised short circuit model. The base case short circuit results were then compared with the results from the revised model to identify any breakers that were under-rated as a result of additional short circuit contribution from PID-234 generation. Any breakers identified to be upgraded through this comparison are mandatory upgrades.

### **C. Analysis Results**

The results of the short circuit analysis indicates that the additional generation due to PID 234 generation causes no increase in short circuit current such that they exceed the fault interrupting capability of the high voltage circuit breakers within the vicinity of the PID 234 plant **with and without priors**. Priors included are: 215, 216, 217, 222, 223, 224, 228, 231 and 233.

### **D. Problem Resolution**

As a result of the short circuit analysis findings, no resolution required.

### III. Load Flow Analysis

#### A. Model Information

The load flow analysis was performed based on the projected 2014 summer peak load flow model. The loads were scaled based on the forecasted loads for the year. All firm power transactions between Entergy and its neighboring control areas were modeled for the year 2014 excluding short-term firm transactions on the same transmission interface. An economic dispatch was carried out on Entergy generating units after the scaling of load and modeling of transactions. The proposed 199MW generation and the associated facilities were then modeled in the case to build a revised case for the load flow analysis. Transfers were simulated between thirteen (13) control areas and Entergy using requesting generator as the source and adjacent control area as sink. (Note: Refer to NRIS [Section – B], if applicable, for details of dispatch within Entergy system)

This study considered the following four scenarios:

Scenario No.	Approved Future Transmission Projects	Pending Transmission Service & Study Requests
1	Not Included	Not Included
2	Not Included	Included
3	Included	Not Included
4	Included	Included

The generator step-up transformers, generators, and interconnecting lines were modeled according to the information provided by PID 234.

#### B. Load Flow Analyses

##### i) Load Flow Analysis:

With the above assumptions implemented, the First Contingency Incremental Transfer Capability (FCITC) values are calculated. The FCITC depends on various factors – the system load, generation dispatch, scheduled maintenance of equipment, and the configuration

of the interconnected system and the power flows in effect among the interconnected systems. The FCITC is also dependent on previously confirmed firm reservations on the interface.

**ii) Performance Criteria**

The criteria for overload violations are as follows:

**A) With All Lines in Service**

- The MVA flow in any branch should not exceed Rate A (normal rating).

**B) Under Contingencies**

- The MVA flow through any facility should not exceed Rate A.

**iii) Power Factor Consideration / Criteria**

Entergy, consistent with the FERC Large Generator Interconnection Procedures (LGIP) requires the customer to be capable of supplying at least 0.33 MVAR (*i.e.*, 0.95 lagging power factor) and absorbing at least 0.33 MVAR (*i.e.*, 0.95 leading power factor) for every MW of power injected into the grid. In the event that, under normal operating conditions, the customer facility does not meet the prescribed power factor requirements at the point of interconnection, the customer shall take necessary steps, such as the installation of reactive power compensating devices, to achieve the desired power factor.

**C. Analysis Results**

Summary of the analysis results are documented in following table for each scenario.

**Table II-C Summary of Results for PID-234 – ERIS Load Flow Study**

<b>Interface</b>		<b>Summer Peak Case Used</b>	<b>FCITC Available for Scenario 1</b>	<b>FCITC Available for Scenario 2</b>	<b>FCITC Available for Scenario 3</b>	<b>FCITC Available for Scenario 4</b>
AECI	Associated Electric Cooperative, Inc.	2014 summer peak	0	0	0	0

AMRN	Ameren Transmission	2014 summer peak	0	0	0	0
CLEC	CLECO	2014 summer peak	0	0	0	0
AEP-W	American Electric Power - West	2014 summer peak	0	0	0	0
EES	Entergy	2014 summer peak	0	0	0	0
EMDE	Empire District Electric Co	2014 summer peak	0	0	0	0
Lafa	Lafayette Utilities Sustum	2014 summer peak	0	0	0	0
LAGN	Louisiana Generating, LLC	2014 summer peak	0	0	0	0
LEPA	Louisiana Energy & Power Authority	2014 summer peak	0	0	0	0
OKGE	Oklahoma Gas & Electric Company	2014 summer peak	0	0	0	0
SMEPA	South Mississippi Electric Power Assoc.	2014 summer peak	0	0	0	0
SOCO	Southern Company	2014 summer peak	0	0	0	0
SPA	Southwest Power Administration	2014 summer peak	0	0	0	0
TVA	Tennessee Valley Authority	2014 summer peak	0	0	0	0

<b>Scenario No.</b>	<b>Approved Future Transmission Projects</b>	<b>Pending Transmission Service &amp; Study Requests</b>
1	Not Included	Not Included
2	Not Included	Included
3	Included	Not Included
4	Included	Included



**TABLE II-C-1 DETAILS OF SCENARIO 1 RESULTS: (WITHOUT FUTURE PROJECTS AND WITHOUT PENDING TRANSMISSION SERVICE & STUDY REQUEST)**

Limiting Element	Est. Cost(\$)	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAF A	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Acadia GSU - Colonial Academy 138kV	6,277,500							X							
Baxter Wilson - Ray Braswell 500kV	1,455,000								X	X		X	X		
Bismark - Hot Springs EHV West 115kV CKT 1	By Others		X												
Bonin - Cecelia 138kV	4,792,000									X					
Bull Shoals - Bull Shoals Dam SPA 161kV	427,500		X				X				X				
Calico Rock - Melborne 161kV	13,274,000		X	X			X				X			X	
Calico Rock - Norfolk 161kV	7,656,000		X	X			X				X			X	
Colonial Academy - Richard 138kV	7,957,500							X		X					
Dell - Manilla AECC 161kV	5,514,500	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Gilmore - Parkin 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Gilmore - Wilson 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Greenwood - Terrebone 115kV	22,094,000				X			X							
Habetz - Richard 138kV	3,272,000							X							
Independence SES - Moorefield 161kV	17,760,000						X							X	
Jonesboro - Jonesboro North (AECC) 161kV	Base Plan				X	X		X	X	X				X	
Judice - Scott1 138kV	9,700,000									X					
Manilla AECC - Monette 161kV	5,887,500	X	X	X	X	X	X	X	X	X	X	X	X	X	X
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	By Others		X												
Melborne - Sage 161kV	8,573,000	X	X	X			X				X			X	
Monette - Paragould 161kV	By Others	X	X	X	X	X	X	X	X	X	X	X	X	X	X
North Crowley - Scott1 138kV	39,707,607							X		X					
Osceola - Wilson 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Parkin - Twist 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pleasant Hill 500/161kV transformer	TBD													X	
Richard - Scott1 138kV	68,006,984							X							
Russellville East - Russellville North 161kV	4,910,000		X				X				X			X	
Scott1 - Bonin 138kV	7,410,000							X		X					
Semere - Scott2 138kV	11,361,000							X		X					
Trumann - Trumann West AECC 161kV	2,624,400	X	X	X	X	X	X	X	X	X	X	X	X	X	X



**TABLE II-C-2 DETAILS OF SCENARIO 2 RESULTS: (WITHOUT FUTURE PROJECTS AND WITH PENDING TRANSMISSION SERVICE & STUDY REQUEST)**

Limiting Elements	Est. Cost(\$)	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Acadia GSU - Colonial Academy 138kV	6,277,500				X			X		X					
Acadia GSU - Scanlan 138kV	1,455,000				X			X		X					
Addis - Big Cajun 1 230kV	Base Plan									X					
Baxter Wilson - Ray Braswell 500kV	4,100,000					X		X	X	X		X	X		X
Bogalusa - Adams Creek 230kV ckt 2	Base Plan				X	X		X	X	X					
Bonin - Cecelia 138kV	4,792,500									X					
Cecelia - Semere 138kV	3,754,350							X		X					
Colonial Academy - Richard 138kV	7,957,500				X			X		X					
Dell - Manilla AECC 161kV	5,514,500	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Florence - South Jackson 115kV	5,715,000											X			
Gilmore - Parkin 161kV	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Gilmore - Wilson 161kV	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Habetz - Richard 138kV	3,272,000				X			X		X					
Jaguar - Tap Point Esso 230kV	2,877,500					X				X					
Jonesboro - Jonesboro North (AECC) 161kV	Base Plan													X	
Judice - Meaux 138kV	12,600,000									X					
Judice - Scott1 138kV	9,700,000									X					
Louisiana Station - Thomas 138kV	2,544,750									X					
Manilla AECC - Monette 161kV	5,887,500	X	X	X	X	X	X	X	X	X	X	X	X	X	X
McAdams 500/230kV transformer 1	6,560,000				X	X		X	X	X		X			
Melborne - Sage 161kV	8,573,000													X	
Monette - Paragould 161kV	By Others	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Moril - Cecelia 138kV	6,182,500				X					X					
North Crowley - Richard 138kV	3,776,625				X			X		X					
North Crowley - Scott1 138kV	39,707,607				X			X		X					
Osceola - Wilson 161kV	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Parkin - Twist 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Port Hudson 230/138 transformer 1	TBD									X					

Limiting Elements	Est. Cost(\$)	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Port Hudson 230/138 transformer 2	TBD									X					
Richard - Scott1 138kV	68,006,984				X			X		X					
Scott1 - Bonin 138kV	7,410,000							X		X					
Semere - Scott2 138kV	11,361,000				X			X		X					
Trumann - Trumann West AECC 161kV	2,624,400	X	X	X	X	X	X	X	X		X	X	X	X	X
Willow Glen - Willow Glen 2 500/138kV transformer 1	TBD									X					
Willow Glen 500/230kV Transformer	TBD					X				X					

**TABLE II-C-3 DETAILS OF SCENARIO 3 RESULTS: (WITH FUTURE PROJECTS AND WITHOUT PENDING TRANSMISSION SERVICE & STUDY REQUEST)**

Limiting Element	Est. Cost(\$)	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Acadia GSU - Colonial Academy 138kV	6,277,500							X							
Bonin - Cecelia 138kV	4,792,000									X					
Bull Shoals - Bull Shoals Dam SPA 161kV	427,500		X				X				X				
Calico Rock - Melborne 161kV	13,274,000		X	X			X				X			X	
Calico Rock - Norfolk 161kV	7,656,000		X	X			X				X			X	
Colonial Academy - Richard 138kV	7,957,500							X		X					
Gilmore - Parkin 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Gilmore - Wilson 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Greenwood - Terrebone 115kV	22,094,000				X			X							
Habetz - Richard 138kV	3,272,000							X							
Independence SES - Moorefield 161kV	17,760,000						X							X	
Judice - Scott1 138kV	9,700,000									X					
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	By Others		X												
Melborne - Sage 161kV	8,573,000	X	X	X			X				X			X	
Monette - Paragould 161kV	By Others	X	X	X	X	X	X	X	X	X	X	X	X	X	X
North Crowley - Scott1 138kV	39,707,607							X		X					
Osceola - Wilson 161kV	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Parkin - Twist 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pleasant Hill 500/161kV transformer	TBD													X	
Richard - Scott1 138kV	68,006,984							X							
Russellville East - Russellville North 161kV	4,910,000		X				X				X			X	
Scott1 - Bonin 138kV	7,410,000							X		X					
Semere - Scott2 138kV	11,361,000							X		X					
Trumann - Trumann West AECC 161kV	2,624,400	X	X	X	X	X	X	X	X	X	X	X	X	X	X

**TABLE II-C-4 DETAILS OF SCENARIO 4 RESULTS: (WITH FUTURE PROJECTS AND WITH PENDING TRANSMISSION SERVICE & STUDY REQUEST)**

Limiting Element	Est. Cost(\$)	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFI	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Acadia GSU - Colonial Academy 138kV	6,277,500				X			X		X					
Acadia GSU - Scanlan 138kV	1,455,000				X			X		X					
Addis - Big Cajun 1 230kV	Base Plan									X					
Baxter Wilson - Ray Braswell 500kV	4,100,000											X			
Bogalusa - Adams Creek 230kV ckt 2	Base Plan				X	X		X	X	X					
Bonin - Cecelia 138kV	4,792,500									X					
Cecelia - Semere 138kV	3,754,350							X		X					
Colonial Academy - Richard 138kV	7,957,500				X			X		X					
Gilmore - Parkin 161kV	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Gilmore - Wilson 161kV	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Habetz - Richard 138kV	3,272,000				X			X		X					
Judice - Meaux 138kV	12,600,000									X					
Judice - Scott1 138kV	9,700,000									X					
McAdams 500/230kV transformer 1	6,560,000				X	X		X	X	X		X			
Melborne - Sage 161kV	8,573,000													1	
Monette - Paragould 161kV	By Others	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Moril - Cecelia 138kV	6,182,500				X					X					
North Crowley - Richard 138kV	3,776,625				X			X		X					
North Crowley - Scott1 138kV	39,707,607				X			X		X					
Osceola - Wilson 161kV	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Parkin - Twist 161kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Port Hudson 230/138 transformer 1	TBD									X					
Port Hudson 230/138 transformer 2	TBD									X					
Richard - Scott1 138kV	68,006,984				X			X		X					
Scott1 - Bonin 138kV	7,410,000							X		X					
Semere - Scott2 138kV	11,361,000				X			X		X					

Limiting Element	Est. Cost(\$)	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Trumann - Trumann West AECC 161kV	2,624,400	X	X	X	X	X	X	X	X		X	X	X	X	X
Willow Glen - Willow Glen 2 500/138kV transformer 1	TBD									X					
Willow Glen 500/230kV Transformer	TBD					X				X					

## APPENDIX A-B: Approved Projects and Transactions in Study Mode

Year	Approved Future Projects
2009 – 2013	EAI 2009S Conway West – Donaghey
	EAI 2009S Danville – Magazine
	EAI 2009S Gillett Capacitor Bank Approved
	EAI 2009W Donaghey - Conway South
	EAI 2010S SMEPA Approved
	EAI 2011W Aquilla Facility Study
	EAI 2012S Warren East Cap
	EGSL 2009S Install 37.7MVAR Cap Bank at Acadia 138kV Sub
	ELL 2009S Amite_South_Area_Improvements_Phase_III
	ELL 2011S Sarepta+Additions
	ELL 2012S Ouichita-To Run First-upg-1478781-3SterlAutos+2BWAutos+splitbus
	ELL 2012S Ouichita-To Run Second Sterlington to NorthBastropVERSION1-Updated
	ELL 2013S Coly-Hammond_230kV
	ELL 2013S Loblolly-Hammond_230kV
	EMI 2008S Liberty-Gloster_Uprate_Line_To_190MVA_newnum
	EMI 2009S Indianola-Greenwood Upggrade Jumpers-Bus
	EMI 2010S Magee_XFMRs_2000A_switches
	ENOI 2009S Paterson Restore Breakers
	ETI 2009F Porter_Tamina_138kV_Replace_Breaker
	ETI 2009S Beaumont_69kV_Improvement_Plan
	ETI 2009S Close_College_Station_138kV_NO_Switch
	ETI 2009S Retap_Newton_Bulk_CT
	ETI 2009W Upgrade_Fawil_Auto
	ETI 2010S WRRIP_Ph_3_Interim_Lewis_Creek_Jacinto_Conversion
	ETI 2011S WRRIP_Ph_3_Interim_Add_Alden_SVC
	ETI 2011S WRRIP_Ph_3_Interim_Upgrade_South_Beaumont_Fontenots_Corner_138kV Solution Set-TVA Affected System

Year	Proposed Projects for prior generator interconnection requests
2012	New Lewis Creek – Conroe 230kV transmission line



Prior Generation Interconnection NRIS requests that were included in this study:

PID	Substation	MW	In Service Date
PID 211	Lewis Creek	570	6/1/2011
PID 221	Wolfcreek	875	In Service
PID 222	Nine Mile	570	10/1/2012
PID 223	PID-223 Tap	125	10/1/2010
PID 224	PID-224 Tap	100	12/1/2009
PID 228	PID-228 Tap	104	4/30/2011

Prior transmission service requests that were included in this study:

OASIS #		PSE	MW	Begin	End
1648591		Entergy Services (SPO)	1	6/1/2010	6/1/2012
1648592		Entergy Services (SPO)	485	6/1/2010	6/1/2012
1658087		Entergy Services (SPO)	1	6/1/2012	6/1/2042
1658088		SMEPA	21	6/1/2012	6/1/2042
1659378		CLECO Power LLC	100	1/1/2010	1/1/2020
1665288		Merrill Lynch Commodities	15	1/1/2011	1/1/2017
1668149		NRG Power Marketing	30	1/1/2010	1/1/2015
1668165		Entergy Services (SPO)	600	1/1/2013	1/1/2043
1669330		NRG Power Marketing	206	1/1/2013	1/1/2018
1672981		Cargill Power Markets	201	1/1/2011	1/1/2016
1675859		NRG Power Marketing	500	1/1/2011	1/1/2016
1675860		NRG Power Marketing	500	1/1/2010	1/1/2012
1675861		NRG Power Marketing	100	1/1/2011	1/1/2016
1676748		KCPL	206	6/1/2010	6/1/2015
1677749		Entergy Services (SPO)	1	1/1/2013	1/1/2015
1684332		AEP Service Corporation	255	1/1/2010	1/1/2015
1679590		Constellation Energy Commodities Group	25	1/1/2010	1/1/2015
1679986		Cargill Power Markets	104	1/1/2010	1/1/2011
1679987		Cargill Power Markets	104	1/1/2010	1/1/2011
1683020		Cargill Power Markets	103	1/1/2011	1/1/2012
1683021		Cargill Power Markets	103	1/1/2011	1/1/2013
1683024		Cargill Power Markets	103	1/1/2011	1/1/2016
1686850		NRG Power Marketing	75	4/1/2010	4/1/2015
1687235		NRG Power Marketing	15	4/1/2010	4/1/2013
1687236		NRG Power Marketing	15	4/1/2010	4/1/2013

**APPENDIX A-C: DETAILS OF SCENARIO 1  
2014  
AECI**

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Independence SES - Keo 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Dell - New Madrid 500kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	68
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	80
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	91
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	95
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	101

Limiting Element	Contingency Element	ATC
Melborne - Sage 161kV	Osceola - Wilson 161kV	133
Monette - Paragould 161kV	Cash - Newport AB 161kV	143
Melborne - Sage 161kV	Osceola - Osceola North 161 kV	145
Melborne - Sage 161kV	Dell - Osceola North 161kV	150
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Monette - Paragould 161kV	Cash - Jonesboro 161kV	182
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## AEP-W

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead Hills 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Melborne - Sage 161kV	Black Rock AECC - Walnut Ridge 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Bee Branch AECC - Quitman 161kV	0
Melborne - Sage 161kV	Jonesboro SPA - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Melborne - Sage 161kV	Black Rock - Hardy East AECC 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Bee Branch AECC - Clinton 161kV	0
Melborne - Sage 161kV	Independence SES - Keo 500kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Hardy East AECC - Hardy North 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Melborne - Sage 161kV	Highland - Water Valley SPA 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	42
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	71
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	76
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	86
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	99
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	102
Bismark - Hot Springs EHV West 115kV CKT 1	El Dorado 500/345kV Transformer	103
Bismark - Hot Springs EHV West 115kV CKT 1	El Dorado EHV - Longwood (SWEPCO) 345kV	103
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	126
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	144
Monette - Paragould 161kV	Cash - Newport AB 161kV	149
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Monette - Paragould 161kV	Cash - Jonesboro 161kV	190
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## AMRN

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Hoxies AECC - Swifton 161 kV	0
Melborne - Sage 161kV	Hoxies AECC - Walnut Ridge 161kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Melborne - Sage 161kV	Black Rock AECC - Walnut Ridge 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Melborne - Sage 161kV	Bee Branch AECC - Quitman 161kV	0
Melborne - Sage 161kV	Jonesboro SPA - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Black Rock - Hardy East AECC 161kV	0
Melborne - Sage 161kV	Independence SES - Keo 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	42
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	68
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	81
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	96
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	100
Calico Rock - Melborne 161kV	Hoxies AECC - Swifton 161 kV	122
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	127
Calico Rock - Melborne 161kV	Hoxies AECC - Walnut Ridge 161kV	141
Monette - Paragould 161kV	Cash - Newport AB 161kV	144
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	169
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Monette - Paragould 161kV	Cash - Jonesboro 161kV	183
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## CLECO

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	80
Jonesboro - Jonesboro North (AECC) 161kV	Sansouci - Shelby (TVA) 500kV	83
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	103
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	112
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Greenwood - Terrebone 115kV	Webre - Wells 500kV	161
Monette - Paragould 161kV	Cash - Newport AB 161kV	167
Greenwood - Terrebone 115kV	Webre - Wells 500kV	173
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## EES

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	77
Jonesboro - Jonesboro North (AECC) 161kV	Sansouci - Shelby (TVA) 500kV	81
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	103
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	109
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155



Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Cash - Newport AB 161kV	163
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## EMDE

Limiting Element	Contingency Element	ATC
Bull Shoals - Bull Shoals Dam SPA 161kV	Eureka Springs - Osage Springs 161kV	0
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Dell - Independence SES 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	St. Joe - Hilltop 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Everton - St. Joe 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Harrison East - Everton 161kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Melborne - Sage 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Sage - Guion 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead Hills 161kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Melborne - Sage 161kV	Mountain View - Guion 161kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Calico Rock - Melborne 161kV	Dell - Independence SES 500kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	Newport - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	ANO - Fort Smith 500kV	0
Calico Rock - Melborne 161kV	Newport AB - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Cash - Newport AB 161kV	10
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	24
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	25
Calico Rock - Melborne 161kV	Cash - Jonesboro 161kV	31
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	39
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	48
Calico Rock - Melborne 161kV	Sage - Guion 161kV	49
Calico Rock - Melborne 161kV	Mountain View - Guion 161kV	62
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	64
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	65
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	76
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	77
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	85
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	87
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	91
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	99
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	100
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	103
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	113
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	116
Monette - Paragould 161kV	Cash - Newport AB 161kV	136
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Bull Shoals - Bull Shoals Dam SPA 161kV	Sansouci - Shelby (TVA) 500kV	157

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Cash - Jonesboro 161kV	173
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	183
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	187
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## LAF A

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Semere - Scott2 138kV	Bonin - Labbe 230kV (LAF A)	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (LAF A)	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Semere - Scott2 138kV	Wells (CLECO) - Point Mouton (LAF A) 230kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Semere - Scott2 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFA)	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
North Crowley - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	1
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Scott1 - Bonin 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	28
Colonial Academy - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	55
Scott1 - Bonin 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	60
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	81
Jonesboro - Jonesboro North (AECC) 161kV	Sansouci - Shelby (TVA) 500kV	83
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Colonial Academy - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	88
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	103
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	113
Greenwood - Terrebone 115kV	Webre - Wells 500kV	140
Acadia GSU - Colonial Academy 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	150
Richard - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	150
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Acadia GSU - Colonial Academy 138kV	Bonin - Labbe 230kV (LAFA)	152
Richard - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	152
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	158
Habetz - Richard 138kV	Bonin - Labbe 230kV (LAFA)	168
Monette - Paragould 161kV	Cash - Newport AB 161kV	170
North Crowley - Scott1 138kV	Richard - Scott1 138kV	171
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Richard - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	182
Acadia GSU - Colonial Academy 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	183
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Habetz - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	195
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## LAGN

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	81
Jonesboro - Jonesboro North (AECC) 161kV	Sansouci - Shelby (TVA) 500kV	83
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	103
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	113
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Cash - Newport AB 161kV	170
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	188
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## LEPA

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Semere - Scott2 138kV	Bonin - Labbe 230kV (LAFA)	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Semere - Scott2 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFA)	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Semere - Scott2 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
North Crowley - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	7
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	81
Jonesboro - Jonesboro North (AECC) 161kV	Sansouci - Shelby (TVA) 500kV	84
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	103
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	114
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	126
Judice - Scott1 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	135
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155

## OKGE

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	St. Joe - Hilltop 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Everton - St. Joe 161kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Harrison East - Everton 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Melborne - Sage 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Melborne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Melborne - Sage 161kV	Cash - Newport AB 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead Hills 161kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Sage - Guion 161kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
Melborne - Sage 161kV	Mountain View - Guion 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Melborne - Sage 161kV	Hoxies AECC - Swifton 161 kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Calico Rock - Melborne 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	ANO - Fort Smith 500kV	0
Calico Rock - Melborne 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Calico Rock - Melborne 161kV	Cash - Newport AB 161kV	15
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	36
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	36
Calico Rock - Melborne 161kV	Cash - Jonesboro 161kV	46
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	58
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	69
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	71
Calico Rock - Melborne 161kV	Sage - Guion 161kV	73
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	76
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	87
Calico Rock - Melborne 161kV	Mountain View - Guion 161kV	93
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	96
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	97



<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	101
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	102
Calico Rock - Melborne 161kV	Hoxies AECC - Swifton 161 kV	106
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	110
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	128
Monette - Paragould 161kV	Cash - Newport AB 161kV	145
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	148
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	153
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	173
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Calico Rock - Norfolk 161kV	Hoxies AECC - Swifton 161 kV	183
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Monette - Paragould 161kV	Cash - Jonesboro 161kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SMEPA

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	83
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	103
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	106
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	116
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Monette - Paragould 161kV	Cash - Newport AB 161kV	174
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SOCO

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	83
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	101
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	116
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Monette - Paragould 161kV	Cash - Newport AB 161kV	175
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	183
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SPA

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Newport AB - Newport Industrial 161kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Dell - Independence SES 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Melborne - Sage 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Melborne - Sage 161kV	Sage - Guion 161kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Melborne - Sage 161kV	Mountain View - Guion 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Dell - Independence SES 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Pleasant Hill 500/161kV transformer	ANO 500/115kV transformer	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Calico Rock - Melborne 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	Newport AB - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Cash - Newport AB 161kV	8
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	20
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	22
Calico Rock - Melborne 161kV	Cash - Jonesboro 161kV	26
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	32
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	41
Calico Rock - Melborne 161kV	Sage - Guion 161kV	42
Calico Rock - Melborne 161kV	Mountain View - Guion 161kV	53
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	54
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	54
Jonesboro - Jonesboro North (AECC) 161kV	Sansouci - Shelby (TVA) 500kV	59
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	66
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	71
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	76
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	77
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	85
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	86
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	87
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	87
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	95
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	99
Monette - Paragould 161kV	Cash - Newport AB 161kV	114
Monette - Paragould 161kV	Cash - Jonesboro 161kV	144
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	166
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Dell - Manilla AECC 161kV	Base Case	189
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Melborne - Sage 161kV	Base Case	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## TVA

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Independence - ISES 500kV transformer	0
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Halliday AECC - Marmaduke AECC 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Independence - ISES 500kV transformer	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	12
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	75
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	85
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	86
Parkin - Twist 161kV	Sansouci - Shelby (TVA) 500kV	101
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	120
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Monette - Paragould 161kV	Cash - Newport AB 161kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## APPENDIX A-D: DETAILS OF SCENARIO 2

**2014  
AECI**

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	7
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	23
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	61
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	71
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	79
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	111
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	114
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	146
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	154
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	156
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180



Limiting Element	Contingency Element	ATC
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## AEP-W

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	6
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	25
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	58
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	68
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	71
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	91
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	138
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	154
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180

Limiting Element	Contingency Element	ATC
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	189
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	200

## AMRN

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	7
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	23
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	51
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	71
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	101
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	121
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	148
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	153
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155

Limiting Element	Contingency Element	ATC
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	165
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## CLECO

Limiting Element	Contingency Element	ATC
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
North Crowley - Scott1 138kV	Richard - Scott1 138kV	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Habetz - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
Semere - Scott2 138kV	Wells 500/230kV transformer	0
Richard - Scott1 138kV	North Crowley - Scott1 138kV	0
North Crowley - Scott1 138kV	Wells 500/230kV transformer	0
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
North Crowley - Richard 138kV	Richard - Scott1 138kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Colonial Academy - Richard 138kV	Wells 500/230kV transformer	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Habetz - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Moril - Cecelia 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Richard - Scott1 138kV	Wells 500/230kV transformer	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Richard - Scott1 138kV	Colonial Academy - Richard 138kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Acadia GSU - Colonial Academy 138kV	Wells 500/230kV transformer	0
Richard - Scott1 138kV	Acadia GSU - Colonial Academy 138kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Richard - Scott1 138kV	Acadia GSU - Scanlan 138kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	6
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	27
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	57
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	67
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	74
Acadia GSU - Scanlan 138kV	Wells 500/230kV transformer	81
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	100
North Crowley - Richard 138kV	Wells 500/230kV transformer	113
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	155
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	163
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	167
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	198

## EES

Limiting Element	Contingency Element	ATC
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	0
Jaguar - Tap Point Esso 230kV	Addis - Big Cajun 1 230kV	0
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Willow Glen 500/230kV Transformer	Jaguar - Tap Point Esso 230kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Willow Glen 500/230kV Transformer	Addis - Big Cajun 1 230kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	6
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	26
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	57
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	67
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	72
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	93
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	156
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	161
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	161
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	194
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	197
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	198

## EMDE

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	6
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	23
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	58
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	68
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	86
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	121
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	139
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151

Limiting Element	Contingency Element	ATC
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	154
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	166
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## LAFa

Limiting Element	Contingency Element	ATC
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Semere - Scott2 138kV	Bonin - Cecelia 138kV	0
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Semere - Scott2 138kV	Bonin - Labbe 230kV (LAFa)	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (LAFa)	0
Semere - Scott2 138kV	Flander - Hopkins 138kV (CLECO/LAFa)	0
North Crowley - Scott1 138kV	Richard - Scott1 138kV	0
Semere - Scott2 138kV	Richard - Wells 500kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (LAFa)	0
Semere - Scott2 138kV	Richard - Scott1 138kV	0
Semere - Scott2 138kV	North Crowley - Richard 138kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
North Crowley - Scott1 138kV	Richard - Wells 500kV	0
Colonial Academy - Richard 138kV	Bonin - Cecelia 138kV	0
Acadia GSU - Colonial Academy 138kV	Bonin - Labbe 230kV (LAFa)	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Richard - Scott1 138kV	Bonin - Labbe 230kV (LAFa)	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
North Crowley - Scott1 138kV	Colonial Academy - Richard 138kV	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	0
North Crowley - Scott1 138kV	Acadia GSU - Colonial Academy 138kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
North Crowley - Scott1 138kV	Acadia GSU - Scanlan 138kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Acadia GSU - Scanlan 138kV	Bonin - Labbe 230kV (LAFa)	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Colonial Academy - Richard 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	0
Colonial Academy - Richard 138kV	Flander - Hopkins 138kV (CLECO/LAFa)	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Habetz - Richard 138kV	Bonin - Labbe 230kV (LAFa)	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Colonial Academy - Richard 138kV	Richard - Scott1 138kV	0
Richard - Scott1 138kV	North Crowley - Scott1 138kV	0
Colonial Academy - Richard 138kV	Point Des Mouton (LAFa) - Labbe (LAFa) 230kV	0
North Crowley - Richard 138kV	Bonin - Labbe 230kV (LAFa)	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
North Crowley - Richard 138kV	Richard - Scott1 138kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Acadia GSU - Colonial Academy 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	0
Richard - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	0
Acadia GSU - Colonial Academy 138kV	Point Des Mouton (LAFa) - Labbe (LAFa) 230kV	0
Richard - Scott1 138kV	Point Des Mouton (LAFa) - Labbe (LAFa) 230kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Acadia GSU - Scanlan 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	0
Acadia GSU - Colonial Academy 138kV	Richard - Scott1 138kV	0
Acadia GSU - Colonial Academy 138kV	Bonin - Cecelia 138kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
North Crowley - Richard 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	0
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	0
Acadia GSU - Scanlan 138kV	Point Des Mouton (LAFa) - Labbe (LAFa) 230kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Richard - Scott1 138kV	Wells 500/230kV transformer	0
Acadia GSU - Colonial Academy 138kV	Flander - Hopkins 138kV (CLECO/LAFa)	0
Semere - Scott2 138kV	Base Case	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFa)	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
North Crowley - Richard 138kV	Point Des Mouton (LAFa) - Labbe (LAFa) 230kV	0
Habetz - Richard 138kV	Point Des Mouton (LAFa) - Labbe (LAFa) 230kV	0
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFa)	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Cecelia - Semere 138kV	Bonin - Labbe 230kV (LAFa)	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	7
Scott1 - Bonin 138kV	Wells (CLECO) - Point Mouton (LAFa) 230kV	9
Acadia GSU - Scanlan 138kV	Richard - Scott1 138kV	11
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	27
Acadia GSU - Scanlan 138kV	Wells 500/230kV transformer	33
Scott1 - Bonin 138kV	Point Des Mouton (LAFa) - Labbe (LAFa) 230kV	41
North Crowley - Richard 138kV	Wells 500/230kV transformer	41



<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Cecelia - Semere 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	54
Acadia GSU - Scanlan 138kV	Habetz - Richard 138kV	55
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	57
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	67
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	74
North Crowley - Scott1 138kV	Base Case	76
Habetz - Richard 138kV	Flander - Acadian 230kV (LAFA)	88
Cecelia - Semere 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	88
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	102
Habetz - Richard 138kV	Wells 500/230kV transformer	119
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	155
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	165
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	169
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	197

## LAGN

Limiting Element	Contingency Element	ATC
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	7
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	27
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	57
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	67
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	74
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	102
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	155
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	165
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	170
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193

Limiting Element	Contingency Element	ATC
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	197

## LEPA

Limiting Element	Contingency Element	ATC
Addis - Big Cajun 1 230kV	Jaguar - Tap Point Esso 230kV	0
North Crowley - Scott1 138kV	Richard - Scott1 138kV	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	0
Semere - Scott2 138kV	Bonin - Labbe 230kV (LAFA)	0
Addis - Big Cajun 1 230kV	Coly - McKnight 500kV	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	0
Semere - Scott2 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
North Crowley - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Semere - Scott2 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
Richard - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	0
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Semere - Scott2 138kV	Bonin - Cecelia 138kV	0
Colonial Academy - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Semere - Scott2 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Richard - Scott1 138kV	North Crowley - Scott1 138kV	0
Semere - Scott2 138kV	Richard - Wells 500kV	0
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	0
North Crowley - Scott1 138kV	Richard - Wells 500kV	0
Colonial Academy - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Acadia GSU - Colonial Academy 138kV	Bonin - Labbe 230kV (LAFA)	0
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
Richard - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
North Crowley - Richard 138kV	Richard - Scott1 138kV	0
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	0
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	0
Habetz - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
Richard - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
North Crowley - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
Acadia GSU - Colonial Academy 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Jaguar - Tap Point Esso 230kV	Addis - Big Cajun 1 230kV	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFA)	0
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	0
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	0
Acadia GSU - Scanlan 138kV	Bonin - Labbe 230kV (LAFA)	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Judice - Scott1 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Acadia GSU - Colonial Academy 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Semere - Scott2 138kV	Terrebone 230/115kV transformer	0
Colonial Academy - Richard 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Colonial Academy - Richard 138kV	Bonin - Cecelia 138kV	0
North Crowley - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Acadia GSU - Scanlan 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Richard - Scott1 138kV	Wells 500/230kV transformer	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Colonial Academy - Richard 138kV	Richard - Wells 500kV	0
Port Hudson 230/138 transformer 2	Port Hudson 230/138 transformer 1	0
Port Hudson 230/138 transformer 1	Port Hudson 230/138 transformer 2	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Acadia GSU - Scanlan 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
North Crowley - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Addis - Big Cajun 1 230kV	Coly - Willow Glen 500kV	0
Habetz - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Willow Glen - Willow Glen 2 500/138kV transformer 1	Willow Glen 500/230kV Transformer	0
Bonin - Cecelia 138kV	Scanlan - Scott2 138kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Moril - Cecelia 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Bonin - Cecelia 138kV	Semere - Scott2 138kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Acadia GSU - Colonial Academy 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Judice - Meaux 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Acadia GSU - Colonial Academy 138kV	Bonin - Cecelia 138kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	0
Willow Glen 500/230kV Transformer	Jaguar - Tap Point Esso 230kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0

Limiting Element	Contingency Element	ATC
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	0
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	0
Judice - Scott1 138kV	Acadian - Bonin 230kV (LAFA)	0
Willow Glen 500/230kV Transformer	Addis - Big Cajun 1 230kV	0
Judice - Scott1 138kV	Moril - Cecelia 138kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Cecelia - Semere 138kV	Bonin - Labbe 230kV (LAFA)	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	7
Louisiana Station - Thomas 138kV	Big Cajun 2 - Webre 500kV	16
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	27
Addis - Big Cajun 1 230kV	Waterford - Willow Glen 500kV	29
Addis - Big Cajun 1 230kV	Waterford 500/230 transformer kV	29

## OKGE

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	6
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	24
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	58
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	68

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	70
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	90
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	132
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	147
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	154
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	180
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## **SMEPA**

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Florence - South Jackson 115kV	Choctaw - West Point 500kV (TVA)	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	7

Limiting Element	Contingency Element	ATC
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	27
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	57
Florence - South Jackson 115kV	Bogalusa - Adams Creek 500/230kV transformer	67
Florence - South Jackson 115kV	Bogalusa - Franklin 500kV	67
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	67
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	73
Florence - South Jackson 115kV	Bogalusa - Adams Creek 500/230kV transformer	76
Florence - South Jackson 115kV	Bogalusa - Franklin 500kV	76
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	108
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	164
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	174
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	197
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SOCO

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	7
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	26
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	52
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	57
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	67
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	72
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	114
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	153
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	155
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	176
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	198

## SPA

Limiting Element	Contingency Element	ATC
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Newport - Newport Industrial 161kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0



<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Jonesboro - Jonesboro North (AECC) 161kV	Cash - Jonesboro 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	4
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	20
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	50
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	58
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	61
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	69
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	94
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	119
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	129
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	149
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Melborne - Sage 161kV	Dell - Independence SES 500kV	182
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	189
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## TVA

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Sansouci - Shelby (TVA) 500kV	0
Manilla AECC - Monette 161kV	Sansouci - Shelby (TVA) 500kV	0
Dell - Manilla AECC 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Dell - Manilla AECC 161kV	Cash - Newport AB 161kV	0
Dell - Manilla AECC 161kV	Cash - Jonesboro 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Dell - Manilla AECC 161kV	Rector - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Manilla AECC - Monette 161kV	Newport AB - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Rector - Marmaduke AECC 161kV	0
Manilla AECC - Monette 161kV	Cash - Newport AB 161kV	0
Manilla AECC - Monette 161kV	Jim Hill SES - Rector North AECC 161 kV	0
Manilla AECC - Monette 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Dell - Manilla AECC 161kV	Dell - Sansouci 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Dell - Manilla AECC 161kV	Harrisburg Tap - Marked Tree 161kV	2
Manilla AECC - Monette 161kV	Rector - Rector North AECC 161 kV	8
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	27
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	51
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	57
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	67
Manilla AECC - Monette 161kV	Dell - Sansouci 500kV	72
Manilla AECC - Monette 161kV	Rector - Marmaduke AECC 161kV	119
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	153
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	157
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Manilla AECC - Monette 161kV	Harrisburg Tap - Marked Tree 161kV	181
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	197

**APPENDIX A-E: DETAILS OF SCENARIO 3  
2014  
AECI**

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Independence SES - Keo 500kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Dell - New Madrid 500kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	34
Monette - Paragould 161kV	Cash - Jonesboro 161kV	73
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	82
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	93
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	104
Melborne - Sage 161kV	Osceola - Wilson 161kV	129
Melborne - Sage 161kV	Osceola - Osceola North 161 kV	141
Melborne - Sage 161kV	Dell - Osceola North 161kV	146
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	196
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## AEP-W

Limiting Element	Contingency Element	ATC
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead Hills 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Black Rock AECC - Walnut Ridge 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Jonesboro SPA - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Black Rock - Hardy East AECC 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Independence SES - Keo 500kV	0
Melborne - Sage 161kV	Hardy East AECC - Hardy North 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Highland - Water Valley SPA 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Hardy North AECC - Mammoth Springs South AECC 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Melborne - Sage 161kV	Mammoth Springs South AECC - Thayer South 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	36
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	39
Monette - Paragould 161kV	Cash - Jonesboro 161kV	77
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	79
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	89
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	105
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	124
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	154

Limiting Element	Contingency Element	ATC
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	161
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## AMRN

Limiting Element	Contingency Element	ATC
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Melborne - Sage 161kV	Hoxies AECC - Swifton 161 kV	0
Melborne - Sage 161kV	Hoxies AECC - Walnut Ridge 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Black Rock AECC - Walnut Ridge 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Melborne - Sage 161kV	Jonesboro SPA - Jonesboro 161kV	0
Melborne - Sage 161kV	Bee Branch AECC - Quitman 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Black Rock - Hardy East AECC 161kV	0
Melborne - Sage 161kV	Independence SES - Keo 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	35
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	39
Monette - Paragould 161kV	Cash - Jonesboro 161kV	74
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	77
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	80
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	90
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	104

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Calico Rock - Melborne 161kV	Hoxies AECC - Swifton 161 kV	118
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	125
Calico Rock - Melborne 161kV	Hoxies AECC - Walnut Ridge 161kV	138
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	165
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	179
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## **CLECO**

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	40
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Monette - Paragould 161kV	Cash - Jonesboro 161kV	86
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	107
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Greenwood - Terrebone 115kV	Webre - Wells 500kV	173
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	176
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184

Limiting Element	Contingency Element	ATC
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## EES

Limiting Element	Contingency Element	ATC
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	39
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Monette - Paragould 161kV	Cash - Jonesboro 161kV	84
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	107
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	168
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## EMDE

Limiting Element	Contingency Element	ATC
Bull Shoals - Bull Shoals Dam SPA 161kV	Eureka Springs - Osage Springs 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Melborne - Sage 161kV	Dell - Independence SES 500kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	St. Joe - Hilltop 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Everton - St. Joe 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Harrison East - Everton 161kV	0
Melborne - Sage 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Sage - Guion 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead Hills 161kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Melborne - Sage 161kV	Mountain View - Guion 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Dell - Independence SES 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Newport - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	ANO - Fort Smith 500kV	0
Calico Rock - Melborne 161kV	Newport AB - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	Cash - Newport AB 161kV	9
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	23
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	24
Calico Rock - Melborne 161kV	Cash - Jonesboro 161kV	30
Monette - Paragould 161kV	Cash - Newport AB 161kV	33



<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	38
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	46
Calico Rock - Melborne 161kV	Sage - Guion 161kV	46
Calico Rock - Melborne 161kV	Mountain View - Guion 161kV	60
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	64
Monette - Paragould 161kV	Cash - Jonesboro 161kV	70
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	75
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	79
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	85
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	89
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	97
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	100
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	103
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	114
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	119
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	152
Bull Shoals - Bull Shoals Dam SPA 161kV	Sansouci - Shelby (TVA) 500kV	153
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	185
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193

## Lafa

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Semere - Scott2 138kV	Bonin - Labbe 230kV (Lafa)	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (Lafa)	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Semere - Scott2 138kV	Wells (CLECO) - Point Mouton (Lafa) 230kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Semere - Scott2 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFA)	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (LAFA)	2
North Crowley - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	5
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Scott1 - Bonin 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	29
Monette - Paragould 161kV	Cash - Newport AB 161kV	41
Colonial Academy - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	58
Scott1 - Bonin 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	61
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Monette - Paragould 161kV	Cash - Jonesboro 161kV	87
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Colonial Academy - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	92
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	107
Greenwood - Terrebone 115kV	Webre - Wells 500kV	140
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Richard - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	153
Acadia GSU - Colonial Academy 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	153
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Richard - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	157
Acadia GSU - Colonial Academy 138kV	Bonin - Labbe 230kV (LAFA)	157
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	161
Habetz - Richard 138kV	Bonin - Labbe 230kV (LAFA)	173
North Crowley - Scott1 138kV	Richard - Scott1 138kV	176
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	179
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Richard - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	185
Acadia GSU - Colonial Academy 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	186
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Habetz - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	198

## LAGN

Limiting Element	Contingency Element	ATC
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	41
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Monette - Paragould 161kV	Cash - Jonesboro 161kV	87
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	107
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## LEPA

Limiting Element	Contingency Element	ATC
Semere - Scott2 138kV	Bonin - Labbe 230kV (LAFA)	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Semere - Scott2 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFA)	0
Semere - Scott2 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (LAFA)	3
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
North Crowley - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	22
Monette - Paragould 161kV	Cash - Newport AB 161kV	41
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Monette - Paragould 161kV	Cash - Jonesboro 161kV	88
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	107
Judice - Scott1 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	146

## OKGE

Limiting Element	Contingency Element	ATC
Bull Shoals - Bull Shoals Dam SPA 161kV	St. Joe - Hilltop 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Everton - St. Joe 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Harrison East - Everton 161kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Melborne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead Hills 161kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Melborne - Sage 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Sage - Guion 161kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
Melborne - Sage 161kV	Mountain View - Guion 161kV	0
Melborne - Sage 161kV	Hoxies AECC - Swifton 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Calico Rock - Melborne 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	ANO - Fort Smith 500kV	0
Calico Rock - Melborne 161kV	Newport AB - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	Cash - Newport AB 161kV	14
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	34
Monette - Paragould 161kV	Cash - Newport AB 161kV	35
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	35
Calico Rock - Melborne 161kV	Cash - Jonesboro 161kV	46
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	57
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	68
Calico Rock - Melborne 161kV	Sage - Guion 161kV	69

Monette - Paragould 161kV	Cash - Jonesboro 161kV	74
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	79
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	89
Calico Rock - Melborne 161kV	Mountain View - Guion 161kV	89
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	96
Calico Rock - Melborne 161kV	Hoxies AECC - Swifton 161 kV	104
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	104
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	108
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	108
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	127
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	145
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	150
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	159
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	170
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Calico Rock - Norfolk 161kV	Hoxies AECC - Swifton 161 kV	181
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SMEPA

Limiting Element	Contingency Element	ATC
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	42
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	77
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	87

Monette - Paragould 161kV	Cash - Jonesboro 161kV	89
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	107
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	191
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SOCO

Limiting Element	Contingency Element	ATC
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	42
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Monette - Paragould 161kV	Cash - Jonesboro 161kV	90
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	106
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SPA

Limiting Element	Contingency Element	ATC
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Melborne - Sage 161kV	Dell - Independence SES 500kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Melborne - Sage 161kV	ANO - Fort Smith 500kV	0
Melborne - Sage 161kV	Newport - Newport Industrial 161kV	0
Melborne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Melborne - Sage 161kV	Cash - Newport AB 161kV	0
Melborne - Sage 161kV	Cash - Jonesboro 161kV	0
Melborne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Melborne - Sage 161kV	Sage - Guion 161kV	0
Melborne - Sage 161kV	Newport - Swifton 161kV	0
Melborne - Sage 161kV	Mountain View - Guion 161kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Dell - Independence SES 500kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Pleasant Hill 500/161kV transformer	ANO 500/115kV transformer	0
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	ANO - Fort Smith 500kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Newport - Newport Industrial 161kV	0
Calico Rock - Melborne 161kV	Newport AB - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Calico Rock - Melborne 161kV	Cash - Newport AB 161kV	8
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	15
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	20
Calico Rock - Melborne 161kV	Sansouci - Shelby (TVA) 500kV	20
Calico Rock - Melborne 161kV	Cash - Jonesboro 161kV	25
Monette - Paragould 161kV	Cash - Newport AB 161kV	27
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	32
Calico Rock - Melborne 161kV	Newport - Swifton 161kV	39
Calico Rock - Melborne 161kV	Sage - Guion 161kV	39
Calico Rock - Melborne 161kV	Mountain View - Guion 161kV	51
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	53
Monette - Paragould 161kV	Cash - Jonesboro 161kV	58



<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	64
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	71
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	79
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	84
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	85
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	89
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	91
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	96
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	97
Monette - Paragould 161kV	Jim Hill SES - Rector North AECC 161 kV	123
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	152
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	164
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Melborne - Sage 161kV	Base Case	191
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Monette - Paragould 161kV	Rector - Rector North AECC 161 kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## TVA

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Newport AB 161kV	0
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	0
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	0
Trumann - Trumann West AECC 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	16
Monette - Paragould 161kV	Cash - Newport AB 161kV	43
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	78
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	88
Monette - Paragould 161kV	Cash - Jonesboro 161kV	92

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	Paragould South (AECC) - Paragould 161 kV	106
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## APPENDIX A-F: DETAILS OF SCENARIO 4 2014

### AECI

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	33
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	56
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	63
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	74
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	137
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNDR - Parkin 161kV	158
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	178
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

### AEP-W

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	36
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	56
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	60
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	70

Limiting Element	Contingency Element	ATC
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	158
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	166
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## AMRN

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	34
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	55
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	61
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	71
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	145
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	157
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	189
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## CLECO

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Scott1 138kV	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Habetz - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Richard - Scott1 138kV	North Crowley - Scott1 138kV	0
Semere - Scott2 138kV	Wells 500/230kV transformer	0
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
North Crowley - Scott1 138kV	Wells 500/230kV transformer	0
North Crowley - Richard 138kV	Richard - Scott1 138kV	0
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Colonial Academy - Richard 138kV	Wells 500/230kV transformer	0
Habetz - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Moril - Cecelia 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Richard - Scott1 138kV	Wells 500/230kV transformer	0
Richard - Scott1 138kV	Colonial Academy - Richard 138kV	0
Acadia GSU - Colonial Academy 138kV	Wells 500/230kV transformer	0
Richard - Scott1 138kV	Acadia GSU - Colonial Academy 138kV	0
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	0
Richard - Scott1 138kV	Acadia GSU - Scanlan 138kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	39
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	56
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	70
Acadia GSU - Scanlan 138kV	Wells 500/230kV transformer	95
North Crowley - Richard 138kV	Wells 500/230kV transformer	130
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	159
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	196
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	200

## EES

Limiting Element	Contingency Element	ATC
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	0
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	38
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	56
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	160
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	192
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	194
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	198
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	199

## EMDE

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	34
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	55
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	61

Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	71
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	145
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	157
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	190
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	198

## Lafa

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Semere - Scott2 138kV	Bonin - Cecelia 138kV	0
Semere - Scott2 138kV	Bonin - Labbe 230kV (Lafa)	0
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (Lafa)	0
Semere - Scott2 138kV	Flander - Hopkins 138kV (CLECO/Lafa)	0
North Crowley - Scott1 138kV	Richard - Scott1 138kV	0
Semere - Scott2 138kV	Richard - Wells 500kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (Lafa)	0
Semere - Scott2 138kV	Richard - Scott1 138kV	0
Semere - Scott2 138kV	North Crowley - Richard 138kV	0
North Crowley - Scott1 138kV	Richard - Wells 500kV	0
Acadia GSU - Colonial Academy 138kV	Bonin - Labbe 230kV (Lafa)	0
Colonial Academy - Richard 138kV	Bonin - Cecelia 138kV	0
Richard - Scott1 138kV	Bonin - Labbe 230kV (Lafa)	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (Lafa) 230kV	0
North Crowley - Scott1 138kV	Colonial Academy - Richard 138kV	0
North Crowley - Scott1 138kV	Acadia GSU - Colonial Academy 138kV	0
North Crowley - Scott1 138kV	Point Des Mouton (Lafa) - Labbe (Lafa) 230kV	0
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Acadia GSU - Scanlan 138kV	Bonin - Labbe 230kV (Lafa)	0
Colonial Academy - Richard 138kV	Wells (CLECO) - Point Mouton (Lafa) 230kV	0
Colonial Academy - Richard 138kV	Flander - Hopkins 138kV (CLECO/Lafa)	0
Habetz - Richard 138kV	Bonin - Labbe 230kV (Lafa)	0
Colonial Academy - Richard 138kV	Richard - Scott1 138kV	0
Richard - Scott1 138kV	North Crowley - Scott1 138kV	0
Colonial Academy - Richard 138kV	Point Des Mouton (Lafa) - Labbe (Lafa) 230kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
North Crowley - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
North Crowley - Richard 138kV	Richard - Scott1 138kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Acadia GSU - Colonial Academy 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Richard - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Acadia GSU - Colonial Academy 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Richard - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Acadia GSU - Scanlan 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Acadia GSU - Colonial Academy 138kV	Richard - Scott1 138kV	0
Acadia GSU - Colonial Academy 138kV	Bonin - Cecelia 138kV	0
North Crowley - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Acadia GSU - Scanlan 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Semere - Scott2 138kV	Base Case	0
Acadia GSU - Colonial Academy 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Richard - Scott1 138kV	Wells 500/230kV transformer	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFA)	0
North Crowley - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Habetz - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Cecelia - Semere 138kV	Bonin - Labbe 230kV (LAFA)	0
Scott1 - Bonin 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	9
Acadia GSU - Scanlan 138kV	Richard - Scott1 138kV	14
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	39
Acadia GSU - Scanlan 138kV	Wells 500/230kV transformer	39
Scott1 - Bonin 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	41
North Crowley - Richard 138kV	Wells 500/230kV transformer	47
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	56
Cecelia - Semere 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	56
Acadia GSU - Scanlan 138kV	Habetz - Richard 138kV	58
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
North Crowley - Scott1 138kV	Base Case	79
Cecelia - Semere 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	90
Habetz - Richard 138kV	Flander - Acadian 230kV (LAFA)	90
Habetz - Richard 138kV	Wells 500/230kV transformer	125
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	159



<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	198
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	199

## LAGN

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	39
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	56
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	159
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	198
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	199

## LEPA

Limiting Element	Contingency Element	ATC
Addis - Big Cajun 1 230kV	Jaguar - Tap Point Esso 230kV	0
North Crowley - Scott1 138kV	Richard - Scott1 138kV	0
North Crowley - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	0
Semere - Scott2 138kV	Bonin - Labbe 230kV (LAFA)	0
Addis - Big Cajun 1 230kV	Coly - McKnight 500kV	0
North Crowley - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Semere - Scott2 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
North Crowley - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Semere - Scott2 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	0
Colonial Academy - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Richard - Scott1 138kV	Bonin - Labbe 230kV (LAFA)	0
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Semere - Scott2 138kV	Bonin - Cecelia 138kV	0
Colonial Academy - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Semere - Scott2 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	0
Semere - Scott2 138kV	Richard - Wells 500kV	0
Richard - Scott1 138kV	North Crowley - Scott1 138kV	0
North Crowley - Scott1 138kV	Richard - Wells 500kV	0
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	0
Colonial Academy - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Acadia GSU - Colonial Academy 138kV	Bonin - Labbe 230kV (LAFA)	0
Richard - Scott1 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
North Crowley - Richard 138kV	Richard - Scott1 138kV	0
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	0
Habetz - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
Richard - Scott1 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
North Crowley - Richard 138kV	Bonin - Labbe 230kV (LAFA)	0
Acadia GSU - Colonial Academy 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Scott1 - Bonin 138kV	Bonin - Labbe 230kV (LAFA)	0
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	0
Acadia GSU - Scanlan 138kV	Bonin - Labbe 230kV (LAFA)	0
Judice - Scott1 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Acadia GSU - Colonial Academy 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	0
Semere - Scott2 138kV	Terrebone 230/115kV transformer	0
Colonial Academy - Richard 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Colonial Academy - Richard 138kV	Bonin - Cecelia 138kV	0
Habetz - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
North Crowley - Richard 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0
Acadia GSU - Scanlan 138kV	Wells (CLECO) - Point Mouton (LAFA) 230kV	0

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Colonial Academy - Richard 138kV	Richard - Wells 500kV	0
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Richard - Scott1 138kV	Wells 500/230kV transformer	0
Acadia GSU - Scanlan 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
North Crowley - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Habetz - Richard 138kV	Point Des Mouton (LAFA) - Labbe (LAFA) 230kV	0
Port Hudson 230/138 transformer 2	Port Hudson 230/138 transformer 1	0
Port Hudson 230/138 transformer 1	Port Hudson 230/138 transformer 2	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Bonin - Cecelia 138kV	Scanlan - Scott2 138kV	0
Moril - Cecelia 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Bonin - Cecelia 138kV	Semere - Scott2 138kV	0
Acadia GSU - Colonial Academy 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Judice - Meaux 138kV	Flander - Hopkins 138kV (CLECO/LAFA)	0
Acadia GSU - Colonial Academy 138kV	Bonin - Cecelia 138kV	0
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Judice - Scott1 138kV	Acadian - Bonin 230kV (LAFA)	0
Judice - Scott1 138kV	Moril - Cecelia 138kV	0
Cecelia - Semere 138kV	Bonin - Labbe 230kV (LAFA)	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Willow Glen - Willow Glen 2 500/138kV transformer 1	Willow Glen 500/230kV Transformer	19

## OKGE

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	35
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	55
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	60
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	71
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151

Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	158
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	158
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## SMEPA

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Lakeover - McAdams 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	39
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	56
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
Baxter Wilson - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	141
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	158
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	197
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	199

## SOCO

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0

Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	38
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	55
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	70
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	157
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	186
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	200

## SPA

Limiting Element	Contingency Element	ATC
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	30
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	54
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	61
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	71
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	113
Trumann - Trumann West AECC 161kV	Newport AB - Newport Industrial 161kV	148
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	153
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Monette - Paragould 161kV	Newport - Newport Industrial 161kV	165
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Melborne - Sage 161kV	Dell - Independence SES 500kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Monette - Paragould 161kV	Newport AB - Newport Industrial 161kV	187
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197

## TVA

<b>Limiting Element</b>	<b>Contingency Element</b>	<b>ATC</b>
Parkin - Twist 161kV	West Memphis EHV - West Memphis LEHI 161kV	0
Monette - Paragould 161kV	Sansouci - Shelby (TVA) 500kV	0
Parkin - Twist 161kV	Ebony North - West Memphis LEHI 161 kV	0
Parkin - Twist 161kV	Ebony North - Marion 161 kV	0
Parkin - Twist 161kV	Newport - Newport Industrial 161kV	0
Parkin - Twist 161kV	Newport AB - Newport Industrial 161kV	0
Parkin - Twist 161kV	Cash - Newport AB 161kV	0
Parkin - Twist 161kV	Cash - Jonesboro 161kV	0
Parkin - Twist 161kV	Marion - Marked Tree 161 kV	39
Parkin - Twist 161kV	Hergett JCWL - Jonesboro 161kV	55
Gilmore - Wilson 161kV	Sansouci - Shelby (TVA) 500kV	59
Gilmore - Parkin 161kV	Sansouci - Shelby (TVA) 500kV	69
Gilmore - Wilson 161kV	Osceola - Wilson 161kV	151
Osceola - Wilson 161kV	Gilmore - Wilson 161kV	151
Gilmore - Parkin 161kV	Osceola - Wilson 161kV	155
Osceola - Wilson 161kV	Gilmore - Parkin 161kV	155
Parkin - Twist 161kV	KUHNRD - Parkin 161kV	156
Gilmore - Wilson 161kV	Osceola - Osceola North 161 kV	180
Gilmore - Parkin 161kV	Osceola - Osceola North 161 kV	184
Trumann - Trumann West AECC 161kV	Newport - Newport Industrial 161kV	188
Gilmore - Wilson 161kV	Dell - Osceola North 161kV	193
Gilmore - Parkin 161kV	Dell - Osceola North 161kV	197
Gilmore - Wilson 161kV	Dell - Sansouci 500kV	199