



***Feasibility Study
PID 257
252MW Plant***

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Energy Resource Interconnection Service

1. Introduction

This Energy Resource Interconnection Service (ERIS) is based on the Customer's request for 252MW interconnection on Entergy's transmission system between the Chalkley and Solac 230kV substations located at PID 257 substation, 1.25 miles from Chalkley. The proposed commercial operation date of the project is March 1, 2013. The objective of this study is to assess the reliability impact of the new facility on the Entergy transmission 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 the plant is connected to Entergy's transmission system. If not, transmission improvements will be identified.

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 the Customer and assumptions made by Entergy's Independent Coordinator of Transmission (ICT) planning group and 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.

It was determined that there are no Entergy Transmission System upgrades required for this ERIS request. The estimated cost of interconnection facilities is \$9,000,000 which covers the cost of the construction of a new 3-breaker 230kV ring bus substation at the Customer's point of interconnection. The estimated costs of the interconnection facilities are planning estimates only. Detailed cost estimates, accelerated costs, and solutions for any identified limiting elements will be provided in the Facilities Study.

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

2. Short circuit Analysis/Breaker Rating Analysis

2.1 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.

2.2 Short Circuit Analysis

The method used to determine if any short circuit problems would be caused by the addition of the PID 257 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 257 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 257 generation. Any breakers identified to be upgraded through this comparison are mandatory upgrades.

2.3 Analysis Results

The results of the short circuit analysis indicated that the additional generation due to PID 257 generation caused no increase in short circuit current such that they exceeded the fault interrupting capability of the high voltage circuit breakers within the vicinity of the PID 257 plant **with and without priors**. Priors included are: 221, 231, 238, 240, 244, 247, 250, 251, 252, 253, 254, 255, and 256.

2.4 Problem Resolution

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

3. Load Flow Analysis

3.1 Model Information

The load flow analysis was performed based on the projected 2014 summer peak load flow model. Approved future transmission projects in the 2011-2013 ICT Base Plan were used in the models for scenarios three and four. 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 PID 257 generation interconnection point was modeled on the existing Chalkley and Solac 230kV line, 1.25 miles from Chalkley 230kV substation. These 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 the requesting generator as the source and adjacent control area as sink.

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 the customer.

3.2 Load Flow Analysis

3.2.1 Load Flow Analysis:

The load flow analysis was performed as a DC analysis using PSS/E and MUST software by Power Technologies Incorporated (PTI). A TRM value that effectively

reduced line ratings by 5% was used in the model. 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.

3.2.2 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.

3.2.3 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.

3.3 Analysis Results

It was determined there are no Entergy Transmission System upgrades required for this ERIS request.

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

Table 3.3.1: Summary of Results for PID 257 – ERIS Load Flow Study

Interface		Summer Peak Case Used	FCITC Available for Scenario 1	FCITC Available for Scenario 2	FCITC Available for Scenario 3	FCITC Available for Scenario 4
AECI	Associated Electric Cooperative, Inc.	2014	-987	-4073	-560	-2049
AEPW	American Electric Power West	2014	-448	-2037	-320	-1830
AMRN	Ameren Transmission	2014	-1158	-4017	-593	-2073
CLEC	CLECO	2014	228	-2479	252	-1261
EES	Entergy	2014	-2125	-5275	-2608	-5228
EMDE	Empire District Electric Co	2014	-709	-4522	-496	-2003
LAFA	Lafayette Utilities System	2014	-805	-2670	-827	-1291
LAGN	Louisiana Generating, LLC	2014	-444	-2461	67	-1143
LEPA	Louisiana Energy & Power Authority	2014	-1109	-2541	-1415	-1438

OKGE	Oklahoma Gas & Electric Company	2014	-623	-2134	-439	-1955
SMEPA	South Mississippi Electric Power Assoc.	2014	*	-2371	*	-1363
SOCO	Southern Company	2014	-1129	-4665	-776	-2182
SPA	Southwest Power Administration	2014	-749	-4420	-521	-2019
TVA	Tennessee Valley Authority	2014	-1050	-2265	-697	-2137

*Actual rating of supplemental upgrade was not used to calculate FCITC

TABLE 3.3.2: DETAILS OF SCENARIO 1 RESULTS: (WITHOUT FUTURE PROJECTS AND WITHOUT PENDING TRANSMISSION SERVICE & STUDY REQUEST)

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Big Three - Carlyss 230kV	3,500,000	X	X	X	X	X	X	X	X		X	X	X	X	X
Bonin - Cecelia 138kV	17,250,000									X					
Carlyss - CitCon West 138kV	625,000					X									
Carroll 230/138kV transformer (CLECO)	9,200,000	X	X	X			X				X		X	X	X
Cedar Hill - Tamina 138kV	Included in 2011 ICT Base Plan	X	X	X		X	X				X			X	
Champagne - Plaisance (CLECO) 138kV	16,250,000							X	X	X		X			
Colonial Academy - Richard 138kV	13,750,000							X							
Conroe 1 - Conroe 2 138kV	TBD	X	X	X		X	X				X			X	X
Coughlin - Plaisance 138kV (CLECO)	22,500,000							X	X	X		X			
French Settlement - Sorrento 230kV	14,000,000	X	X	X			X				X	X	X	X	X
Greenwood - Humphrey 115kV	1,250,000							X		X					
Greenwood - Terrebone 115kV	12,500,000							X		X					
Habetz - Richard 138kV	Included in 2011 ICT Base Plan							X		X					
International Paper - Mansfield 138kV (CLECO)	23,750,000	X	X	X			X				X		X	X	X
International Paper - Wallake 138kV (CLECO)	22,500,000	X	X	X			X				X		X	X	X
Jackson Miami - Jackson Monument Street 115kV	3,750,000											X			
Mossville - Roy S. Nelson 138kV	3,750,000					X									
North Crowley - Scott1 138kV	21,250,000							X		X					
Plantation - Cedar Hill 138kV	3,750,000	X	X	X		X	X				X		X	X	X

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Pleasant Hill 500/161kV transformer	Included in 2011 ICT Base Plan						X							X	
Raceland - Coteau 115kV	15,325,000									X					
Rapides (CLECO) - Rodemacher (CLECO) 230kV	19,250,000							X		X					
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Committed to by others											X			
Richard - Scott1 138kV	Included in 2011 ICT Base Plan							X							
Scott1 - Bonin 138kV	6,250,000							X							
Semere - Scott2 138kV	20,000,000							X		X					
Toledo - Leesville (CLECO) 138kV	28,750,000	X	X	X			X				X	X	X	X	X
Toledo - VP Tap 138kV	Included in 2011 ICT Base Plan	X	X	X		X	X		X	X	X	X	X	X	X

TABLE 3.3.3: 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
Arizona - Citgo 138kV	2,500,000					X									
Big Three - Carlyss 230kV	3,500,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Big Three - Sabine 230kV	64,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bonin - Cecelia 138kV	17,250,000									X					
Carlyss - CitCon West 138kV	625,000					X									
Carlyss - Rose Bluff 230kV	3,500,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cedar Hill - Tamina 138kV	Included in 2011 ICT Base Plan	X	X	X		X	X				X		X	X	X
Champagne - Plaisance (CLECO) 138kV	16,250,000							X							
Colonial Academy - Richard 138kV	13,750,000							X							
Columbus MS (TVA) - Weyerhouser Tap (TVA) 161kV	13,750,000											X			
Coly - Vignes 230kV - Supplemental Upgrade	Committed to by others					X				X		X			
Conroe Bulk2 - Plantation 138kV	3,750,000	X	X	X		X	X				X		X	X	X
Coughlin - Plaisance 138kV (CLECO)	22,500,000							X							
Florence - South Jackson 115kV - Supplemental Upgrade	Committed to by others											X			
French Settlement - Sorrento 230kV	14,000,000			X								X	X		X
Habetz - Richard 138kV	Included in 2011 ICT Base Plan							X							
Hollywood - Orange 138kV	36,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hollywood - Roy S. Nelson 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
International Paper - Mansfield 138kV (CLECO)	23,750,000	X	X	X			X				X		X	X	X
Jackson Miami - Jackson Monument Street 115kV	3,750,000											X			
Jackson Miami - Rex Brown 115kV	Included in 2011 ICT Base Plan											X			
Judice - Scott1 138kV	10,000,000									X					
Marshall - Mossville 138kV	21,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
McAdams 500/230kV transformer 1	Included in 2011 ICT Base Plan	X		X			X						X	X	
Mossville - Roy S. Nelson 138kV	21,250,000					X									
North Crowley - Scott1 138kV	21,250,000							X							
Orange - Toomey 138kV	11,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Philadelphia MS (TVA) - South Philadelphia 161kV	1,250,000											X			
Plantation - Cedar Hill 138kV	3,750,000	X	X	X		X	X				X		X	X	X
Port Hudson 230/138 transformer 1	9,200,000									X					
Port Hudson 230/138 transformer 2	9,200,000									X					
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	19,250,000							X		X					
Rex Brown W - Rex Brown C 115kV ckt 1	TBD											X			
Scott1 - Bonin 138kV	6,250,000							X							
Semere - Scott2 138kV	20,000,000							X		X					
Toomey - Marshall 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vatican - Colton Road 138kV	15,000,000							X							
Willow Glen 500/230kV Transformer	Included in 2011 ICT Base Plan					X				X					

TABLE 3.3.4: 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
Carroll 230/138kV transformer (CLECO)	9,200,000	X	X	X			X				X		X	X	X
Champagne - Plaisance (CLECO) 138kV	16,250,000							X	X	X		X			
Conroe 1 - Conroe 2 138kV	TBD	X	X	X		X	X				X			X	X
Coughlin - Plaisance 138kV (CLECO)	22,500,000							X	X	X		X			
Florence - South Jackson 115kV - Supplemental Upgrade	Committed to by others											X			
Greenwood - Humphrey 115kV	1,250,000							X							
Greenwood - Terrebone 115kV	12,500,000							X							
International Paper - Mansfield 138kV (CLECO)	23,750,000	X	X	X			X				X		X	X	X
International Paper - Wallake 138kV (CLECO)	22,500,000	X	X	X			X				X		X	X	X
Jackson Miami - Jackson Monument Street 115kV	3,750,000											X			
Jackson Miami - Rex Brown 115kV	Included in 2011 ICT Base Plan											X			
Mossville - Roy S. Nelson 138kV	3,750,000					X									
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	19,250,000							X		X					
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Committed to by others											X			
Willow Glen - Evergreen 230kV ckt 2	Included in 2011 ICT Base Plan					X				X					

TABLE 3.3.5: 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	LAFa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Arizona - Citgo 138kV	2,500,000					X									
Big Three - Carlyss 230kV	3,500,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Big Three - Sabine 230kV	64,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bonin - Cecelia 138kV	17,250,000									X					
Carroll 230/138kV transformer (CLECO)	9,200,000		X								X				
Columbus MS (TVA) - Weyerhouser Tap (TVA) 161kV	13,750,000											X			
Conroe Bulk2 - Plantation 138kV	3,750,000	X	X	X		X	X				X		X	X	X
Fancy Point - Port Hudson 230kV ckt 1	19,250,000									X					
Florence - South Jackson 115kV - Supplemental Upgrade	Committed to by others											X			
Hollywood - Orange 138kV	36,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hollywood - Roy S. Nelson 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
International Paper - Mansfield 138kV (CLECO)	23,750,000	X	X	X			X				X		X	X	X
Jackson Miami - Jackson Monument Street 115kV	3,500,000											X			
Jackson Miami - Rex Brown 115kV	Included in 2011 ICT Base Plan											X			
Marshall - Mossville 138kV	21,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mossville - Roy S. Nelson 138kV	3,750,000					X									
Orange - Toomey 138kV	11,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Limiting Element	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Philadelphia MS (TVA) - South Philadelphia 161kV	1,250,000											X			
Plantation - Cedar Hill 138kV	3,750,000	X	X	X		X	X				X		X	X	X
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	19,250,000							X		X					
Rex Brown W - Rex Brown C 115kV ckt 1	TBD											X			
Toomey - Marshall 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vatican - Colton Road 138kV	15,000,000							X							
Willow Glen - Evergreen 230kV ckt 2	Included in 2011 ICT Base Plan					X				X					

3.3.1 DETAILS OF SCENARIO 1 – 2014

AECI

Limiting Element	Contingency Element	ATC
French Settlement - Sorrento 230kV	Franklin - McKnight 500kV	-987
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-807
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-358
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-282
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-233
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-196
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-24
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	30
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	82
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	82
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	190
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	202
Toledo - Leesville (CLECO) 138kV	Colfax - Montgomery 230kV	234
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	235

AEPW

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-448
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-285
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-246
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-240
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-157
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-19
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	21
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	61
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	64
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	134
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	166
Toledo - Leesville (CLECO) 138kV	Colfax - Montgomery 230kV	175
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	187

AMRN

Limiting Element	Contingency Element	ATC
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1158
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-1158
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-857
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-375
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-299
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-224
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-188
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-25
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	31
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	85

Limiting Element	Contingency Element	ATC
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	85
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	196
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	204
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	243
Toledo - Leesville (CLECO) 138kV	Colfax - Montgomery 230kV	243

CLECO

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	228

EES

Limiting Element	Contingency Element	ATC
Mossville - Roy S. Nelson 138kV	Carlyss - CitCon West 138kV	-2125
Mossville - Roy S. Nelson 138kV	CitCon West - Arizona 138kV	-2079
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-40
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	33
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	138
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	183
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	204
Carlyss - CitCon West 138kV	Mossville - Roy S. Nelson 138kV	210
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	252

EMDE

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-709
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-330
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-248
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-243
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-205
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-23
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	28
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	77
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	78
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV 3 Winding Transformer	161
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	176
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	199
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	218
Toledo - Leesville (CLECO) 138kV	Colfax - Montgomery 230kV	220

Lafa

Limiting Element	Contingency Element	ATC
Greenwood - Terrebone 115kV	Webre - Wells 500kV	-805
Coughlin - Plaisance 138kV (CLECO)	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-393
Champagne - Plaisance (CLECO) 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-335
Rapides (CLECO) - Rodemacher (CLECO)	Rodemacher (CLECO) - Sherwood (CLECO)	-280

Limiting Element	Contingency Element	ATC
230kV	230kV	
Coughlin - Plaisance 138kV (CLECO)	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-278
Champagne - Plaisance (CLECO) 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-220
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	-183
Semere - Scott2 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-178
Semere - Scott2 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-144
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-112
Habetz - Richard 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-105
Semere - Scott2 138kV	Habetz - Richard 138kV	-91
Habetz - Richard 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-69
Coughlin - Plaisance 138kV (CLECO)	Vil Plat - West Fork 230kV	-53
Semere - Scott2 138kV	Greenwood - Terrebone 115kV	-51
Semere - Scott2 138kV	Wells 500/230kV transformer	-6
North Crowley - Scott1 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	1
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	19
Scott1 - Bonin 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	29
North Crowley - Scott1 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	29
Greenwood - Humphrey 115kV	Webre - Wells 500kV	46
North Crowley - Scott1 138kV	Habetz - Richard 138kV	54
Scott1 - Bonin 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	69
Habetz - Richard 138kV	Wells 500/230kV transformer	92
Habetz - Richard 138kV	Greenwood - Terrebone 115kV	106
North Crowley - Scott1 138kV	Wells 500/230kV transformer	114
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	132
Coughlin - Plaisance 138kV (CLECO)	Wells (CLECO) - West Fork (CLECO) 230kV	150
North Crowley - Scott1 138kV	Greenwood - Terrebone 115kV	163
Richard - Scott1 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	179
North Crowley - Scott1 138kV	Richard - Scott1 138kV	191
Richard - Scott1 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	207
Habetz - Richard 138kV	Flander - Acadian 230kV (LAFA)	218
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	222
Richard - Scott1 138kV	Habetz - Richard 138kV	230
Colonial Academy - Richard 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	244
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	245

LAGN

Limiting Element	Contingency Element	ATC
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	-444
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-270
Coughlin - Plaisance 138kV (CLECO)	Vil Plat - West Fork 230kV	-129
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-52
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	45
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	179
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	227

LEPA

Limiting Element	Contingency Element	ATC
Greenwood - Terrebone 115kV	Webre - Wells 500kV	1109
Coughlin - Plaisance 138kV (CLECO)	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-560
Rapides (CLECO) - Rodemacher (CLECO) 230kV	Rodemacher (CLECO) - Sherwood (CLECO) 230kV	-480
Champagne - Plaisance (CLECO) 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-478
Semere - Scott2 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-432
Coughlin - Plaisance 138kV (CLECO)	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-396
Semere - Scott2 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-350
Champagne - Plaisance (CLECO) 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-313
Habetz - Richard 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-303
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	-222
Habetz - Richard 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-198
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-135
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	-93
Coughlin - Plaisance 138kV (CLECO)	Vil Plat - West Fork 230kV	-64
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-55
Semere - Scott2 138kV	Wells 500/230kV transformer	-16
North Crowley - Scott1 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	3
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	23
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	59
Greenwood - Humphrey 115kV	Webre - Wells 500kV	63
North Crowley - Scott1 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	85
Raceland - Coteau 115kV	Terrebone 230/115kV transformer	136
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	158

OKGE

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-623
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-303
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-255
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-218
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-215
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-21
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	26
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	72
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	73
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	163
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	196
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	202
Toledo - Leesville (CLECO) 138kV	Colfax - Montgomery 230kV	205

SMEPA

Limiting Element	Contingency Element	ATC
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	McAdams - Pickens 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Canton - Pickens 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Lakeover 500/115kV transformer	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Sweatt (SOCO) - Lost Gap (SOCO) 115kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Lost Gap (SOCO) - Hickory MS (SOCO) 115kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Canton South - Canton 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Newton (SOCO) - Hickory MS (SOCO) 115kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Big Cajun 2 - Webre 500kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Coly - McKnight 500kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Kemper (SOCO) - Kemper1 (SOCO) 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Base Case	*
Jackson Miami - Jackson Monument Street 115kV	South Jackson 230/115kV transformer 1	-902
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	-472
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-433
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-433
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-287
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Ray Braswell 115kV	-196
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - Rex Brown E 115kV	-173
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - North Jackson 115kV	-173
Coughlin - Plaisance 138kV (CLECO)	Vil Plat - West Fork 230kV	-137
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-122
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-102
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Southwest Jackson 115kV	-37
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-33
Jackson Miami - Jackson Monument Street 115kV	Klean - Jackson Northeast 115kV	4
Jackson Miami - Jackson Monument Street 115kV	Ray Braswell - West Jackson 115kV	43
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	48
Jackson Miami - Jackson Monument Street 115kV	Klean - Flowood 115kV	70
Jackson Miami - Jackson Monument Street 115kV	North Jackson - Jackson Canton Road 115kV	113
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	115
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	126
French Settlement - Sorrento 230kV	Front Street - Michoud 230kV	154
French Settlement - Sorrento 230kV	Franklin - Mcknight 500kV	213

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	218

SOCO

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-1129
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-873
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-873
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-471
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-395
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-193
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-162
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-28
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	97
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	102
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	211
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	226
French Settlement - Sorrento 230kV	Front Street - Michoud 230kV	243

SPA

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-749
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-338
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-262
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-243
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-204
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-23
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	29
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	78
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	79
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV 3 Winding Transformer	82
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	182
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	200
Toledo - Leesville (CLECO) 138kV	Colfax - Montgomery 230kV	224
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	225

TVA

Limiting Element	Contingency Element	ATC
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1050
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-1050
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-1014
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-423
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-355
French Settlement - Sorrento 230kV	Fairview - Gypsy 230kV	-208
French Settlement - Sorrento 230kV	Fairview - Madisonville 230kV	-175
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	-27

Limiting Element	Contingency Element	ATC
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	34
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	91
Toledo - Leesville (CLECO) 138kV	Colfax - Rodemacher 230kV	93
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	208
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	214

3.3.2 DETAILS OF SCENARIO 2 - 2014

AECI

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Choctaw MS (TVA) - Clay (TVA) 500kV	-4073
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2203
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2069
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1983
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1171
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1170
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1145
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1140
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1139
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1124
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1116
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1114
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1059
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-996
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-994
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-986
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-938
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-928
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-878
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-866
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-832
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-754
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-629
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-562
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-551
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-539
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-532
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-473
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-472
Orange - Toomey 138kV	Big Three - Sabine 230kV	-467
Big Three - Carlyss 230kV	Base Case	-466
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-448
Marshall - Mossville 138kV	Inland - McLewis 230kV	-438
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-408
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-384
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-315
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-304
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-273
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-249
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-239
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-232
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-231
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-192
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-159

Limiting Element	Contingency Element	ATC
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-143
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-20
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-19
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-18
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
Big Three - Sabine 230kV	Bevil - Cypress 230kV	12
Big Three - Sabine 230kV	Inland - McLewis 230kV	12
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	13
Orange - Toomey 138kV	Hollywood - Orange 138kV	21
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	35
Big Three - Sabine 230kV	Helbig - McLewis 230kV	38
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	51
Hollywood - Orange 138kV	Orange - Toomey 138kV	83
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	111
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	120
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	167
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	184
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	220

AEPW

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2037
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-1850
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1751
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1113
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1112
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1083
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1083
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1074
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1061
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1059
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1012
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1011
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-947
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-944
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-943
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-911
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-884
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-856
Big Three - Carlyss 230kV	TenRusk (AEPW) - Crockett (AEPW) 345kV	-852
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-789
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-674
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-599
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-536
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-521
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-510

Limiting Element	Contingency Element	ATC
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-508
Big Three - Carlyss 230kV	Base Case	-449
Orange - Toomey 138kV	Big Three - Sabine 230kV	-446
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-442
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-441
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-423
Marshall - Mossville 138kV	Inland - McLewis 230kV	-409
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-381
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-359
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-291
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-229
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-222
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-222
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-215
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-214
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-193
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-178
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-147
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-136
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-19
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-18
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-17
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-8
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	7
Big Three - Sabine 230kV	Bevil - Cypress 230kV	12
Big Three - Sabine 230kV	Inland - McLewis 230kV	12
Orange - Toomey 138kV	Hollywood - Orange 138kV	20
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	33
Big Three - Sabine 230kV	Helbig - McLewis 230kV	36
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	49
Hollywood - Orange 138kV	Orange - Toomey 138kV	78
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	107
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	113

AMRN

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Choctaw MS (TVA) - Clay (TVA) 500kV	-4017
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2221
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2093
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-2009
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1178
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1177
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1160
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1147
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1145
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1131

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1122
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1121
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1065
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1003
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1000
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-993
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-939
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-933
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-883
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-868
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-838
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-763
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-632
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-566
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-555
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-543
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-535
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-477
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-476
Orange - Toomey 138kV	Big Three - Sabine 230kV	-470
Big Three - Carlyss 230kV	Base Case	-468
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-451
Marshall - Mossville 138kV	Inland - McLewis 230kV	-441
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-411
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-387
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-325
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-306
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-282
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-252
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-241
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-234
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-233
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-194
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-160
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-144
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-101
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-101
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-21
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-19
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-18
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
Big Three - Sabine 230kV	Bevil - Cypress 230kV	12
Big Three - Sabine 230kV	Inland - McLewis 230kV	12
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	13
Orange - Toomey 138kV	Hollywood - Orange 138kV	21
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	35

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Helbig - McLewis 230kV	38
Carlyss - Rose Bluff 230kV	Boudin - Dynegey 230kV	51
Hollywood - Orange 138kV	Orange - Toomey 138kV	83
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	111
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	115
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	121
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	168
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	186
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	221

CLECO

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2479
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1332
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1331
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1320
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1300
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1297
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1274
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1268
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1244
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1209
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1185
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1109
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-1106
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-1049
Big Three - Carlyss 230kV	Hartburg - Roy S. Nelson 500kV	-1021
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-1010
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-749
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-679
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-670
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-665
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-625
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-552
Orange - Toomey 138kV	Big Three - Sabine 230kV	-548
Big Three - Carlyss 230kV	Base Case	-532
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-465
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-436
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-358
Marshall - Mossville 138kV	Hartburg - Roy S. Nelson 500kV	-342
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-281
Marshall - Mossville 138kV	Cypress 500/138kV transformer 1	-229
Marshall - Mossville 138kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-193
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-174
Hollywood - Roy S. Nelson 138kV	Mossville - Roy S. Nelson 138kV	-163
Hollywood - Roy S. Nelson 138kV	Hartburg - Roy S. Nelson 500kV	-65
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-25

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-21
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-20
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-11
Big Three - Sabine 230kV	Bevil - Cypress 230kV	14
Big Three - Sabine 230kV	Inland - McLewis 230kV	14
Orange - Toomey 138kV	Hollywood - Orange 138kV	25
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	40
Big Three - Sabine 230kV	Helbig - McLewis 230kV	44
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	56
Hollywood - Roy S. Nelson 138kV	Cypress 500/138kV transformer 1	90
Hollywood - Orange 138kV	Orange - Toomey 138kV	102
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	120
Hollywood - Roy S. Nelson 138kV	Stowell - PID 247 138kV	137
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	161
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	192
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	224
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	233

EES

Limiting Element	Contingency Element	ATC
Mossville - Roy S. Nelson 138kV	Carlyss - CitCon West 138kV	-5275
Mossville - Roy S. Nelson 138kV	CitCon West - Arizona 138kV	-5235
Mossville - Roy S. Nelson 138kV	Boudin - Dynegy 230kV	-2064
Mossville - Roy S. Nelson 138kV	Boudin - Carlyss 230kV	-2037
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-1992
Carlyss - CitCon West 138kV	Mossville - Roy S. Nelson 138kV	-1850
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-1717
Mossville - Roy S. Nelson 138kV	Greywood Tap - Solac 230kV	-1602
Mossville - Roy S. Nelson 138kV	Greywood Tap - Greywood 230kV	-1602
Mossville - Roy S. Nelson 138kV	Vincent - Greywood 230kV	-1577
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1570
Mossville - Roy S. Nelson 138kV	Pecan Grove - Vincent 230kV	-1530
Mossville - Roy S. Nelson 138kV	Dynegy - Pecan Grove 230kV	-1431
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1096
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1095
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1068
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1067
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1050
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1046
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1045
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-990
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-923
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-912
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-900
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-893
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-852
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-851

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-837
Big Three - Carlyss 230kV	Hollywood - Roy S. Nelson 138kV	-809
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-755
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-634
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-582
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-521
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-500
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-489
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-478
Big Three - Carlyss 230kV	Base Case	-449
Orange - Toomey 138kV	Big Three - Sabine 230kV	-439
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-417
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-416
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-398
Marshall - Mossville 138kV	Inland - McLewis 230kV	-386
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-360
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-340
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-339
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	-309
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-293
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-284
Arizona - Citgo 138kV	Mossville - Roy S. Nelson 138kV	-275
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-224
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-206
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-197
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-195
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-163
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-135
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-131
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-18
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-18
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-17
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-8
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
Big Three - Sabine 230kV	Bevil - Cypress 230kV	11
Big Three - Sabine 230kV	Inland - McLewis 230kV	12
Orange - Toomey 138kV	Hollywood - Orange 138kV	19
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Polsky Carville 230kV	32
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	33
Big Three - Sabine 230kV	Helbig - McLewis 230kV	36
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	48
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Licar 230kV	71
Hollywood - Orange 138kV	Orange - Toomey 138kV	75
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	105
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	124
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	128

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	160
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	167
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	203
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	204

EMDE

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Choctaw MS (TVA) - Clay (TVA) 500kV	-4522
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2170
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2024
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1934
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1159
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1158
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1128
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1127
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1116
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1114
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1105
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1103
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1049
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-985
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-984
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-971
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-938
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-918
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-869
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-863
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-823
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-737
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-622
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-557
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-544
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-533
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-527
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-467
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-466
Big Three - Carlyss 230kV	Base Case	-463
Orange - Toomey 138kV	Big Three - Sabine 230kV	-462
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-442
Marshall - Mossville 138kV	Inland - McLewis 230kV	-432
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-402
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-379
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-302
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-293
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-254
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-243

Limiting Element	Contingency Element	ATC
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-237
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-228
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-227
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-189
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-156
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-142
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-20
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-19
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-17
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	11
Big Three - Sabine 230kV	Bevil - Cypress 230kV	12
Big Three - Sabine 230kV	Inland - McLewis 230kV	12
Orange - Toomey 138kV	Hollywood - Orange 138kV	20
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	35
Big Three - Sabine 230kV	Helbig - McLewis 230kV	38
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	51

Lafa

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2670
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1377
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1376
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1361
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1341
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1339
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1312
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1310
Big Three - Carlyss 230kV	Hartburg - Roy S. Nelson 500kV	-1283
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1282
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1265
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1225
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1194
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-1143
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-1057
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-1031
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-774
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-713
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-698
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-693
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-644
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-580
Orange - Toomey 138kV	Big Three - Sabine 230kV	-565
Big Three - Carlyss 230kV	Base Case	-541
Vatican - Colton Road 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-397

Limiting Element	Contingency Element	ATC
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-369
Vatican - Colton Road 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-322
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-290
Semere - Scott2 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-200
Marshall - Mossville 138kV	Stowell - PID 247 138kV	-187
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-182
Marshall - Mossville 138kV	Amelia Bulk - China Bulk 230kV	-170
Semere - Scott2 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-166
Vatican - Colton Road 138kV	Cocodrie - Vil Plat 230kV	-153
Habetz - Richard 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-143
Scott1 - Bonin 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	-131
Habetz - Richard 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-106
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	Rodemacher (CLECO) - Sherwood (CLECO) 230kV	-104
Scott1 - Bonin 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	-91
Vatican - Colton Road 138kV	Vil Plat - West Fork 230kV	-69
Marshall - Mossville 138kV	Chemical Road - SRW Conoco 138kV	-44
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-26
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-22
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-21
Marshall - Mossville 138kV	Grimes - Frontier 345kV	-17
Marshall - Mossville 138kV	Holly Springs - Newton Bulk 138kV	-12
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-11
Coughlin - Plaisance 138kV (CLECO)	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	5
Marshall - Mossville 138kV	Holly Springs - Jasper 138kV	10
Big Three - Sabine 230kV	Bevil - Cypress 230kV	14
Big Three - Sabine 230kV	Inland - McLewis 230kV	15
Semere - Scott2 138kV	Wells 500/230kV transformer	25
Orange - Toomey 138kV	Hollywood - Orange 138kV	26
Champagne - Plaisance (CLECO) 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	40
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	41
Big Three - Sabine 230kV	Helbig - McLewis 230kV	45
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	54
Carlyss - Rose Bluff 230kV	Boudin - Dynege 230kV	56
Vatican - Colton Road 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	60
Vatican - Colton Road 138kV	Champagne - Krotz Spring 138kV	72
North Crowley - Scott1 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	83
Hollywood - Orange 138kV	Orange - Toomey 138kV	107
Habetz - Richard 138kV	Wells 500/230kV transformer	108
North Crowley - Scott1 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	111
Coughlin - Plaisance 138kV (CLECO)	Vil Plat (CLECO) - West Fork (CLECO) 230kV	120
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	122
Semere - Scott2 138kV	Habetz - Richard 138kV	139
Habetz - Richard 138kV	Flander - Acadian 230kV (LAFA)	140
Hollywood - Roy S. Nelson 138kV	Stowell - PID 247 138kV	144
Champagne - Plaisance (CLECO) 138kV	Vil Plat (CLECO) - West Fork (CLECO) 230kV	155
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	195
Scott1 - Bonin 138kV	Wells 500/230kV transformer	198

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	202
Colonial Academy - Richard 138kV	Cocodrie (CLECO) - Vil Plat (CLECO) 230kV	219
Scott1 - Bonin 138kV	Judice - Scott1 138kV	226
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	232
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	234
North Crowley - Scott1 138kV	Richard - Scott1 138kV	238
Scott1 - Bonin 138kV	Cocodrie - Vil Plat 230kV	239
North Crowley - Scott1 138kV	Wells 500/230kV transformer	247

LAGN

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2461
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1249
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1248
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1216
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1212
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1194
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1188
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1188
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1125
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1101
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1076
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1061
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-991
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-932
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-924
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-899
Big Three - Carlyss 230kV	Hollywood - Roy S. Nelson 138kV	-886
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-671
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-601
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-598
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-586
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-565
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-524
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-523
Orange - Toomey 138kV	Big Three - Sabine 230kV	-496
Big Three - Carlyss 230kV	Base Case	-487
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-487
Marshall - Mossville 138kV	Inland - McLewis 230kV	-484
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-451
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-423
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-397
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-323
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-261
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-259
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-254
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-216

Limiting Element	Contingency Element	ATC
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-179
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-155
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-153
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-22
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-20
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-19
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Big Three - Sabine 230kV	Bevil - Cypress 230kV	13
Big Three - Sabine 230kV	Inland - McLewis 230kV	13
Orange - Toomey 138kV	Hollywood - Orange 138kV	22
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	37
Big Three - Sabine 230kV	Helbig - McLewis 230kV	41
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	53
Hollywood - Orange 138kV	Orange - Toomey 138kV	90
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	112
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	114
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	119
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	175
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	199
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	222

LEPA

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2541
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1314
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1312
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1280
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1279
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1277
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1251
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1250
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1206
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1168
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1144
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1136
Big Three - Carlyss 230kV	Hartburg - Roy S. Nelson 500kV	-1107
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-1067
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-994
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-976
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-723
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-653
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-647
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-639
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-606
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-563
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-562

Limiting Element	Contingency Element	ATC
Orange - Toomey 138kV	Big Three - Sabine 230kV	-532
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-531
Marshall - Mossville 138kV	Inland - McLewis 230kV	-521
Big Three - Carlyss 230kV	Base Case	-516
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-485
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-456
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-427
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-347
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	-296
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-273
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	-229
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	Rodemacher (CLECO) - Sherwood (CLECO) 230kV	-178
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-168
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-166
Judice - Scott1 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	-165
Judice - Scott1 138kV	Sellers Road (CLECO) - Segura (CLECO) 230kV	-163
Judice - Scott1 138kV	Segura (CLECO) 230/138kV transformer'	-158
Hollywood - Roy S. Nelson 138kV	Mossville - Roy S. Nelson 138kV	-155
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	-142
Hollywood - Roy S. Nelson 138kV	Ameila Bulk - Bevil 230kV	-134
Port Hudson 230/138 transformer 2	Port Hudson 230/138 transformer 1	-51
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	-42
Port Hudson 230/138 transformer 1	Port Hudson 230/138 transformer 2	-28
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-24
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-21
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-20
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-10
Big Three - Sabine 230kV	Bevil - Cypress 230kV	14
Big Three - Sabine 230kV	Inland - McLewis 230kV	14
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Polsky Carville 230kV	17
Orange - Toomey 138kV	Hollywood - Orange 138kV	24
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Licar 230kV	38
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	39
Big Three - Sabine 230kV	Helbig - McLewis 230kV	43
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	55
Semere - Scott2 138kV	Wells 500/230kV transformer	67
Hollywood - Roy S. Nelson 138kV	Crockett - Grimes 345kV	67
Hollywood - Roy S. Nelson 138kV	Cypress 500/138kV transformer 1	88
Hollywood - Orange 138kV	Orange - Toomey 138kV	98
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	100
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	109
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	120
Judice - Scott1 138kV	Flander - Segura 138kV (CLECO)	149

OKGE

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2134
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-1975
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1882
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1146
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1145
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1116
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1115
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1102
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1092
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1091
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1087
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1038
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-973
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-973
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-954
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-939
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-909
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-861
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-860
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-813
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-720
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-616
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-551
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-537
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-526
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-522
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-460
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-459
Big Three - Carlyss 230kV	Base Case	-459
Orange - Toomey 138kV	Big Three - Sabine 230kV	-458
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-437
Marshall - Mossville 138kV	Inland - McLewis 230kV	-425
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-396
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-373
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-299
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-271
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-237
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-235
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-235
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-225
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-223
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-186
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-154
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-140
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-20
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-18

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-17
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	10
Big Three - Sabine 230kV	Bevil - Cypress 230kV	12
Big Three - Sabine 230kV	Inland - McLewis 230kV	12
Orange - Toomey 138kV	Hollywood - Orange 138kV	20
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	34
Big Three - Sabine 230kV	Helbig - McLewis 230kV	37
Carlyss - Rose Bluff 230kV	Boudin - Dynegey 230kV	50

SMEPA

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2371
Jackson Miami - Jackson Monument Street 115kV	South Jackson 230/115kV transformer 1	-1515
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1239
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1237
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1206
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1204
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1193
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1180
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1178
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1124
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1070
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1060
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1060
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-989
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-958
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-927
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-894
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - North Jackson 115kV	-727
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - Rex Brown E 115kV	-727
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Ray Braswell 115kV	-708
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-670
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-600
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-595
Rex Brown W - Rex Brown C 115kV ckt 1	South Jackson 230/115kV transformer 1	-587
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-582
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-565
Rex Brown W - Rex Brown C 115kV ckt 1	Ray Braswell 500/115kV transformer 1	-561
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Southwest Jackson 115kV	-549
Jackson Miami - Jackson Monument Street 115kV	Klean - Jackson Northeast 115kV	-531
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-514
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-512
Orange - Toomey 138kV	Big Three - Sabine 230kV	-496
Big Three - Carlyss 230kV	Base Case	-489

Limiting Element	Contingency Element	ATC
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-483
Marshall - Mossville 138kV	Inland - McLewis 230kV	-475
Jackson Miami - Jackson Monument Street 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-474
Jackson Miami - Jackson Monument Street 115kV	Klean - Flowood 115kV	-465
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-442
Jackson Miami - Jackson Monument Street 115kV	North Jackson - Jackson Canton Road 115kV	-442
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-416
Jackson Miami - Jackson Monument Street 115kV	Lake Castle - Lakeover 230kV	-409
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-390
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-323
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-254
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-254
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-253
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	-217
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-211
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-174
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-154
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-149
Florence - South Jackson 115kV - Supplemental Upgrade	Choctaw MS (TVA) - Clay (TVA) 500kV	-76
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-38
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-38
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-22
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-20
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-19
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Franklin 500kV	-16
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Adams Creek 500/230kV transformer	-16
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Big Three - Sabine 230kV	Bevil - Cypress 230kV	13
Big Three - Sabine 230kV	Inland - McLewis 230kV	13
Orange - Toomey 138kV	Hollywood - Orange 138kV	22
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Polsky Carville 230kV	29
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	37
Big Three - Sabine 230kV	Helbig - McLewis 230kV	40
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	53
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Licar 230kV	65
Hollywood - Orange 138kV	Orange - Toomey 138kV	89
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	115
Philadelphia MS (TVA) - South Philadelphia 161kV	Philadelphia MS (TVA) - Sebastopol (TVA) 161kV	127
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	141
Florence - South Jackson 115kV - Supplemental Upgrade	South Jackson - Pop Spring 115kV	146
Columbus MS (TVA) - Weyerhouser Tap (TVA) 161kV	Sturgis MS (TVA) - NW Louisville (TVA) 161kV	164
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Pop Spring 115kV	168

Limiting Element	Contingency Element	ATC
Florence - South Jackson 115kV - Supplemental Upgrade	Kemper (SOCO) - Kemper1 (SOCO) 230kV	173
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Silver Creek 115kV	174
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	176
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	185
Florence - South Jackson 115kV - Supplemental Upgrade	Sebastopol (TVA) - Five Points MS (TVA) 161kV	191
Florence - South Jackson 115kV - Supplemental Upgrade	Homewood (SMEPA) - Five Points MS (TVA) 161kV	213
Florence - South Jackson 115kV - Supplemental Upgrade	Sturgis MS (TVA) - NW Louisville (TVA) 161kV	220

SOCO

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Choctaw MS (TVA) - Clay (TVA) 500kV	-4665
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2295
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2201
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-2127
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1228
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1207
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1206
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1175
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1174
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1161
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1150
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1149
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1093
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1035
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1028
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1027
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-960
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-947
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-904
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-880
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-865
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-802
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-650
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-582
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-573
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-561
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-549
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-495
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-493
Orange - Toomey 138kV	Big Three - Sabine 230kV	-482
Big Three - Carlyss 230kV	Base Case	-478
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-466
Marshall - Mossville 138kV	Inland - McLewis 230kV	-457
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-426

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-401
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-374
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-325
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-314
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-264
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-247
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-244
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-242
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-202
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-167
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-149
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-76
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-76
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-21
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-19
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-18
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
Big Three - Sabine 230kV	Bevil - Cypress 230kV	13
Big Three - Sabine 230kV	Inland - McLewis 230kV	13
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	18
Orange - Toomey 138kV	Hollywood - Orange 138kV	22
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	36
Big Three - Sabine 230kV	Helbig - McLewis 230kV	39
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	52
Hollywood - Orange 138kV	Orange - Toomey 138kV	86
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	113
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	130
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	172
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	192
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	223

SPA

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Choctaw MS (TVA) - Clay (TVA) 500kV	-4420
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2182
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2040
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1951
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1163
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1162
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1132
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1131
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1126
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1116
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1108
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1106
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1052

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-988
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-987
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-976
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-937
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-921
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-872
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-863
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-825
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-743
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-624
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-558
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-546
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-534
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-528
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-469
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-468
Orange - Toomey 138kV	Big Three - Sabine 230kV	-464
Big Three - Carlyss 230kV	Base Case	-464
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-444
Marshall - Mossville 138kV	Inland - McLewis 230kV	-433
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-404
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-380
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-302
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-302
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-262
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-245
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-238
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-229
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-228
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-190
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-157
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-142
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-20
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-19
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-17
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	12
Big Three - Sabine 230kV	Bevil - Cypress 230kV	12
Big Three - Sabine 230kV	Inland - McLewis 230kV	12
Orange - Toomey 138kV	Hollywood - Orange 138kV	21
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	35
Big Three - Sabine 230kV	Helbig - McLewis 230kV	38
Carlyss - Rose Bluff 230kV	Boudin - Dyrnegy 230kV	51

TVA

Limiting Element	Contingency Element	ATC
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-2265
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2156
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-2078
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1199
Big Three - Carlyss 230kV	Hartburg 500/230kV transformer 1	-1195
Big Three - Carlyss 230kV	Hartburg - Inland Orange 230kV	-1194
Big Three - Carlyss 230kV	Inland - McLewis 230kV	-1163
Big Three - Carlyss 230kV	Bevil - Cypress 230kV	-1161
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1147
Big Three - Carlyss 230kV	Ameila Bulk - Bevil 230kV	-1138
Big Three - Carlyss 230kV	Helbig - McLewis 230kV	-1137
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1081
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1020
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1015
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1013
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-948
Big Three - Carlyss 230kV	Crockett - Grimes 345kV	-942
Big Three - Carlyss 230kV	Amelia Bulk - China Bulk 230kV	-895
Big Three - Carlyss 230kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-874
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-852
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-786
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-642
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-575
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-565
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-553
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-543
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-487
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-486
Orange - Toomey 138kV	Big Three - Sabine 230kV	-476
Big Three - Carlyss 230kV	Base Case	-474
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-459
Marshall - Mossville 138kV	Inland - McLewis 230kV	-450
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-419
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-395
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-356
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-311
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-309
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-259
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-244
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-239
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-238
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-198
Hollywood - Roy S. Nelson 138kV	Helbig - McLewis 230kV	-164
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-147
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-92
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-92

Limiting Element	Contingency Element	ATC
Hollywood - Orange 138kV	Marshall - Mossville 138kV	-21
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	-19
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	-18
Hollywood - Orange 138kV	Toomey - Marshall 138kV	-9
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	0
Big Three - Sabine 230kV	Bevil - Cypress 230kV	12
Big Three - Sabine 230kV	Inland - McLewis 230kV	13
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	16
Orange - Toomey 138kV	Hollywood - Orange 138kV	21
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	36
Big Three - Sabine 230kV	Helbig - McLewis 230kV	39
Carlyss - Rose Bluff 230kV	Boudin - Dynegy 230kV	52
Hollywood - Orange 138kV	Orange - Toomey 138kV	85
Carlyss - Rose Bluff 230kV	Boudin - Carlyss 230kV	113
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	125
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	170
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	189
Carlyss - Rose Bluff 230kV	Solac - PID 257 230kV	222

3.3.3 DETAILS OF SCENARIO 3 - 2014

AECI

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-560
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-21
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-19
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	216

AEPW

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-320
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-13
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-12
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	151

AMRN

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-593
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-22
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-20
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	223

CLECO

Limiting Element	Contingency Element	ATC
NONE	NONE	252

EES

Limiting Element	Contingency Element	ATC
Willow Glen - Evergreen 230kV ckt 2	Bayou Laboutte 500/230kV transformer 1	-2608
Willow Glen - Evergreen 230kV ckt 2	Iberville - Bayou Laboutte 230kV	-2599
Mossville - Roy S. Nelson 138kV	Carlyss - CitCon West 138kV	-1761
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	236

EMDE

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-496
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-19
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-18
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	200

LAF A

Limiting Element	Contingency Element	ATC
Greenwood - Terrebone 115kV	Webre - Wells 500kV	-827

Limiting Element	Contingency Element	ATC
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	Rodemacher (CLECO) - Sherwood (CLECO) 230kV	-328
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	32
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	109
Coughlin - Plaisance 138kV (CLECO)	Vil Plat - West Fork 230kV	178
Greenwood - Humphrey 115kV	Webre - Wells 500kV	233

LAGN

Limiting Element	Contingency Element	ATC
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	67
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	225

LEPA

Limiting Element	Contingency Element	ATC
Willow Glen - Evergreen 230kV ckt 2	Bayou Laboutte 500/230kV transformer 1	-1415
Willow Glen - Evergreen 230kV ckt 2	Iberville - Bayou Laboutte 230kV	-1410
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	Rodemacher (CLECO) - Sherwood (CLECO) 230kV	-506
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	36
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	120

OKGE

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-439
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-16
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-16
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	185

SMEPA

Limiting Element	Contingency Element	ATC
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	McAdams - Pickens 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Canton - Pickens 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Canton South - Canton 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Lakeover 500/115kV transformer	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Rex Brown - Rex Brown C 230/115kV transformer 1	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Southwest Lonestar (SMEPA) - Prentiss (SMEPA) 161kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Sweatt (SOCO) - Lost Gap (SOCO) 115kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Lost Gap (SOCO) - Hickory MS (SOCO) 115kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	McAdams 500/230kV transformer 2	*

Limiting Element	Contingency Element	ATC
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Canton - Yandell Road 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Base Case	*
Jackson Miami - Jackson Monument Street 115kV	South Jackson 230/115kV transformer 1	-1063
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Ray Braswell 115kV	-427
Jackson Miami - Jackson Monument Street 115kV	Klean - Jackson Northeast 115kV	-322
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - Rex Brown E 115kV	-293
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - North Jackson 115kV	-293
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Southwest Jackson 115kV	-273
Jackson Miami - Jackson Monument Street 115kV	Klean - Flowood 115kV	-258
Jackson Miami - Jackson Monument Street 115kV	Ray Braswell - West Jackson 115kV	-171
Jackson Miami - Jackson Monument Street 115kV	North Jackson - Jackson Canton Road 115kV	-41
Coughlin - Plaisance 138kV (CLECO)	Cocodrie - Vil Plat 230kV	71
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Adams Creek 500/230kV transformer	166
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Franklin 500kV	166
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	205
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	240
Florence - South Jackson 115kV - Supplemental Upgrade	Choctaw MS (TVA) - Clay (TVA) 500kV	248

SOCO

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-776
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-29
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-25

SPA

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-521
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-19
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-18
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	207

TVA

Limiting Element	Contingency Element	ATC
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-697
International Paper - Wallake 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-26
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-23
Conroe 1 - Conroe 2 138kV	Oak Ridge - Porter 138kV	245

3.3.4 DETAILS OF SCENARIO 4 - 2014

AECI

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2049
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1960
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1115
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1078
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1014
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-973
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-945
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-937
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-880
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-774
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-719
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-619
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-582
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-517
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-487
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-486
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-475
Orange - Toomey 138kV	Big Three - Sabine 230kV	-422
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-384
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-358
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-357
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-335
Marshall - Mossville 138kV	Inland - McLewis 230kV	-321
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-309
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-258
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-205
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-194
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-148
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-104
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-103
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-88
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-84
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-80
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-62
Hollywood - Orange 138kV	Marshall - Mossville 138kV	41
Big Three - Sabine 230kV	Bevil - Cypress 230kV	42
Hollywood - Orange 138kV	Toomey - Marshall 138kV	52
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	66
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	66
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	67
Orange - Toomey 138kV	Hollywood - Orange 138kV	80
Big Three - Sabine 230kV	Inland - McLewis 230kV	99
Big Three - Sabine 230kV	Helbig - McLewis 230kV	123
Hollywood - Orange 138kV	Orange - Toomey 138kV	144

Limiting Element	Contingency Element	ATC
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	174
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	209
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	214
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	247

AEPW

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-1830
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1727
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1030
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-983
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-969
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-901
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-899
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-888
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-839
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-734
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-642
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-572
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-555
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-493
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-465
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-460
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-450
Orange - Toomey 138kV	Big Three - Sabine 230kV	-404
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-363
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-335
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-334
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-313
Marshall - Mossville 138kV	Inland - McLewis 230kV	-300
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-290
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-246
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-185
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-183
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-106
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-96
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-95
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-79
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-74
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-58
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-50
Hollywood - Orange 138kV	Marshall - Mossville 138kV	39
Big Three - Sabine 230kV	Bevil - Cypress 230kV	40
Hollywood - Orange 138kV	Toomey - Marshall 138kV	50
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	63
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	63
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	64

Limiting Element	Contingency Element	ATC
Orange - Toomey 138kV	Hollywood - Orange 138kV	76
Big Three - Sabine 230kV	Inland - McLewis 230kV	94
Big Three - Sabine 230kV	Helbig - McLewis 230kV	117
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	124
Hollywood - Orange 138kV	Orange - Toomey 138kV	136
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	200
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	201
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	202
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	234

AMRN

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2073
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1986
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1130
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1084
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1020
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-981
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-951
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-944
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-885
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-779
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-727
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-624
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-586
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-520
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-490
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-489
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-479
Orange - Toomey 138kV	Big Three - Sabine 230kV	-425
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-387
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-361
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-360
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-337
Marshall - Mossville 138kV	Inland - McLewis 230kV	-323
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-312
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-259
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-207
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-195
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-153
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-105
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-104
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-93
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-84
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-81
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-63
Hollywood - Orange 138kV	Marshall - Mossville 138kV	41

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Bevil - Cypress 230kV	43
Hollywood - Orange 138kV	Toomey - Marshall 138kV	53
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	67
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	67
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	68
Orange - Toomey 138kV	Hollywood - Orange 138kV	80
Big Three - Sabine 230kV	Inland - McLewis 230kV	99
Big Three - Sabine 230kV	Helbig - McLewis 230kV	124
Hollywood - Orange 138kV	Orange - Toomey 138kV	145
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	180
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	210
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	217
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	248

CLECO

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1261
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1186
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1132
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1122
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1093
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-1044
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-935
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-696
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-691
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-613
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-597
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-583
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-569
Orange - Toomey 138kV	Big Three - Sabine 230kV	-494
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-471
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-430
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-429
Marshall - Mossville 138kV	Inland - McLewis 230kV	-385
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-351
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-301
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-227
Marshall - Mossville 138kV	Hartburg - Roy S. Nelson 500kV	-164
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-101
Hollywood - Roy S. Nelson 138kV	Mossville - Roy S. Nelson 138kV	-70
Big Three - Sabine 230kV	Bevil - Cypress 230kV	48
Hollywood - Orange 138kV	Marshall - Mossville 138kV	50
Hollywood - Orange 138kV	Toomey - Marshall 138kV	64
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	75
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	75
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	76
Orange - Toomey 138kV	Hollywood - Orange 138kV	96

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Inland - McLewis 230kV	112
Hollywood - Roy S. Nelson 138kV	Hartburg - Roy S. Nelson 500kV	137
Big Three - Sabine 230kV	Helbig - McLewis 230kV	140
Hollywood - Orange 138kV	Orange - Toomey 138kV	176
Hollywood - Roy S. Nelson 138kV	Cypress 500/138kV transformer 1	179
Hollywood - Roy S. Nelson 138kV	Stowell - PID 247 138kV	219
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	238

EES

Limiting Element	Contingency Element	ATC
Mossville - Roy S. Nelson 138kV	Carlyss - CitCon West 138kV	-5228
Willow Glen - Evergreen 230kV ckt 2	Bayou Laboutte 500/230kV transformer 1	-2651
Willow Glen - Evergreen 230kV ckt 2	Iberville - Bayou Laboutte 230kV	-2638
Mossville - Roy S. Nelson 138kV	Boudin - Dynegy 230kV	-2018
Mossville - Roy S. Nelson 138kV	Boudin - Carlyss 230kV	-1991
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-1690
Mossville - Roy S. Nelson 138kV	Greywood Tap - Solac 230kV	-1554
Mossville - Roy S. Nelson 138kV	Greywood Tap - Greywood 230kV	-1554
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1540
Mossville - Roy S. Nelson 138kV	Vincent - Greywood 230kV	-1529
Mossville - Roy S. Nelson 138kV	Pecan Grove - Vincent 230kV	-1481
Mossville - Roy S. Nelson 138kV	Dynegy - Pecan Grove 230kV	-1382
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1006
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-947
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-893
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-878
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-866
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-846
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-807
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-701
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-600
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-557
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-539
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-479
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-457
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-432
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-422
Orange - Toomey 138kV	Big Three - Sabine 230kV	-397
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-342
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-316
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-315
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-295
Marshall - Mossville 138kV	Inland - McLewis 230kV	-283
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-273
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-241
Arizona - Citgo 138kV	Mossville - Roy S. Nelson 138kV	-226
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-181

Limiting Element	Contingency Element	ATC
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-169
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-160
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-88
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-87
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-76
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-68
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-53
Hollywood - Orange 138kV	Marshall - Mossville 138kV	37
Big Three - Sabine 230kV	Bevil - Cypress 230kV	40
Hollywood - Orange 138kV	Toomey - Marshall 138kV	47
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	62
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	62
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	63
Orange - Toomey 138kV	Hollywood - Orange 138kV	73
Big Three - Sabine 230kV	Inland - McLewis 230kV	93
Big Three - Sabine 230kV	Helbig - McLewis 230kV	116
Hollywood - Orange 138kV	Orange - Toomey 138kV	130
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	190
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	200
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	221
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	223

EMDE

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2003
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1911
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1087
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1068
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1004
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-958
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-936
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-927
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-871
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-765
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-703
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-610
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-576
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-512
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-482
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-481
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-470
Orange - Toomey 138kV	Big Three - Sabine 230kV	-418
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-380
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-353
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-352
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-330
Marshall - Mossville 138kV	Inland - McLewis 230kV	-316

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-305
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-255
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-200
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-192
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-138
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-102
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-101
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-83
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-79
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-78
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-61
Hollywood - Orange 138kV	Marshall - Mossville 138kV	41
Big Three - Sabine 230kV	Bevil - Cypress 230kV	42
Hollywood - Orange 138kV	Toomey - Marshall 138kV	52
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	66
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	66
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	67
Orange - Toomey 138kV	Hollywood - Orange 138kV	79
Big Three - Sabine 230kV	Inland - McLewis 230kV	98
Big Three - Sabine 230kV	Helbig - McLewis 230kV	122
Hollywood - Orange 138kV	Orange - Toomey 138kV	142
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	163
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	207
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	211
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	244

Lafa

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1291
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1214
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1179
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1172
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1149
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-1070
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-968
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-750
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-708
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-628
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-619
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-605
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-582
Orange - Toomey 138kV	Big Three - Sabine 230kV	-506
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-489
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-309
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-232
Marshall - Mossville 138kV	Stowell - PID 247 138kV	-110
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-104

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	LeBrock (AEPW) - TenRusk (AEPW) 345kV	-103
Marshall - Mossville 138kV	TenRusk (AEPW) - Crockett (AEPW) 345kV	-98
Marshall - Mossville 138kV	Amelia Bulk - China Bulk 230kV	-64
Marshall - Mossville 138kV	Cypress 500/230kV transformer	-19
Marshall - Mossville 138kV	Chemical Road - SRW Conoco 138kV	33
Big Three - Sabine 230kV	Bevil - Cypress 230kV	50
Hollywood - Orange 138kV	Marshall - Mossville 138kV	52
Rapidies (CLECO) - Rodemacher (CLECO) 230kV	Rodemacher (CLECO) - Sherwood (CLECO) 230kV	63
Hollywood - Orange 138kV	Toomey - Marshall 138kV	67
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	77
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	77
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	78
Orange - Toomey 138kV	Hollywood - Orange 138kV	100
Big Three - Sabine 230kV	Inland - McLewis 230kV	115
Big Three - Sabine 230kV	Helbig - McLewis 230kV	144
Vatican - Colton Road 138kV	Cocodrie - Vil Plat 230kV	144
Hollywood - Orange 138kV	Orange - Toomey 138kV	183
Hollywood - Roy S. Nelson 138kV	Stowell - PID 247 138kV	227
Vatican - Colton Road 138kV	Vil Plat - West Fork 230kV	239
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	242

LAGN

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1143
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1094
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1075
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1011
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1007
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-938
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-835
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-696
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-620
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-551
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-528
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-516
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-516
Orange - Toomey 138kV	Big Three - Sabine 230kV	-448
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-417
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-396
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-395
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-369
Marshall - Mossville 138kV	Inland - McLewis 230kV	-354
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-342
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-323
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-273
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-205

Limiting Element	Contingency Element	ATC
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-117
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-115
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-90
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-89
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-70
Hollywood - Roy S. Nelson 138kV	Mossville - Roy S. Nelson 138kV	-61
Hollywood - Orange 138kV	Marshall - Mossville 138kV	45
Big Three - Sabine 230kV	Bevil - Cypress 230kV	45
Hollywood - Orange 138kV	Toomey - Marshall 138kV	57
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	71
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	71
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	72
Orange - Toomey 138kV	Hollywood - Orange 138kV	86
Big Three - Sabine 230kV	Inland - McLewis 230kV	105
Big Three - Sabine 230kV	Helbig - McLewis 230kV	131
Hollywood - Orange 138kV	Orange - Toomey 138kV	156
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	205
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	218

LEPA

Limiting Element	Contingency Element	ATC
Willow Glen - Evergreen 230kV ckt 2	Bayou Laboutte 500/230kV transformer 1	-1438
Willow Glen - Evergreen 230kV ckt 2	Iberville - Bayou Laboutte 230kV	-1432
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1224
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1152
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1125
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1096
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1084
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-1009
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-905
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-715
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-668
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-593
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-575
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-562
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-553
Orange - Toomey 138kV	Big Three - Sabine 230kV	-480
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-454
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-424
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-423
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-396
Marshall - Mossville 138kV	Inland - McLewis 230kV	-380
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-367
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-347
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-293
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-220
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-98

Limiting Element	Contingency Element	ATC
Hollywood - Roy S. Nelson 138kV	Mossville - Roy S. Nelson 138kV	-67
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	25
Big Three - Sabine 230kV	Bevil - Cypress 230kV	48
Hollywood - Orange 138kV	Marshall - Mossville 138kV	49
Hollywood - Orange 138kV	Toomey - Marshall 138kV	62
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	74
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	74
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	75
Orange - Toomey 138kV	Hollywood - Orange 138kV	93
Rapides (CLECO) - Rodemacher (CLECO) 230kV	Rodemacher (CLECO) - Sherwood (CLECO) 230kV	97
Big Three - Sabine 230kV	Inland - McLewis 230kV	110
Fancy Point - Port Hudson 230kV ckt 1	Fancy Point - Port Hudson 230kV ckt 2	112
Big Three - Sabine 230kV	Helbig - McLewis 230kV	138

OKGE

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-1955
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1859
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1058
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1057
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-994
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-942
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-926
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-916
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-862
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-756
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-686
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-599
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-570
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-506
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-477
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-475
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-464
Orange - Toomey 138kV	Big Three - Sabine 230kV	-414
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-375
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-348
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-347
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-325
Marshall - Mossville 138kV	Inland - McLewis 230kV	-312
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-301
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-253
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-195
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-190
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-128
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-101
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-99

Limiting Element	Contingency Element	ATC
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-82
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-77
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-69
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-60
Hollywood - Orange 138kV	Marshall - Mossville 138kV	40
Big Three - Sabine 230kV	Bevil - Cypress 230kV	42
Hollywood - Orange 138kV	Toomey - Marshall 138kV	51
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	65
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	65
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	66
Orange - Toomey 138kV	Hollywood - Orange 138kV	78
Big Three - Sabine 230kV	Inland - McLewis 230kV	97
Big Three - Sabine 230kV	Helbig - McLewis 230kV	121
Hollywood - Orange 138kV	Orange - Toomey 138kV	140
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	151
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	205
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	208
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	241
Carroll 230/138kV transformer (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	249

SMEPA

Limiting Element	Contingency Element	ATC
Jackson Miami - Jackson Monument Street 115kV	South Jackson 230/115kV transformer 1	-1363
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1146
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1077
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1049
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-1009
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-1008
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-939
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-833
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-668
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-621
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-552
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-526
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-517
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-514
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Ray Braswell 115kV	-511
Orange - Toomey 138kV	Big Three - Sabine 230kV	-449
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-415
Jackson Miami - Jackson Monument Street 115kV	Klean - Jackson Northeast 115kV	-402
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-388
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-387
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - Rex Brown E 115kV	-377
Jackson Miami - Jackson Monument Street 115kV	Jackson HICO - North Jackson 115kV	-377
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-363

Limiting Element	Contingency Element	ATC
Jackson Miami - Jackson Monument Street 115kV	Jackson Forrest Hill - Southwest Jackson 115kV	-357
Rex Brown W - Rex Brown C 115kV ckt 1	South Jackson 230/115kV transformer 1	-355
Marshall - Mossville 138kV	Inland - McLewis 230kV	-348
Jackson Miami - Jackson Monument Street 115kV	Klean - Flowood 115kV	-339
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-336
Marshall - Mossville 138kV	Helbig - McLewis 230kV	-317
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-274
Jackson Miami - Jackson Monument Street 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-254
Jackson Miami - Jackson Monument Street 115kV	Lake Castle - Lakeover 230kV	-231
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-206
Jackson Miami - Jackson Monument Street 115kV	Ray Braswell - West Jackson 115kV	-204
Rex Brown W - Rex Brown C 115kV ckt 1	Ray Braswell 500/115kV transformer 1	-189
Florence - South Jackson 115kV - Supplemental Upgrade	Choctaw MS (TVA) - Clay (TVA) 500kV	-145
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-114
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-113
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	-94
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-90
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-88
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-68
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Franklin 500kV	-61
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Adams Creek 500/230kV transformer	-61
Hollywood - Roy S. Nelson 138kV	Mossville - Roy S. Nelson 138kV	-61
Hollywood - Orange 138kV	Marshall - Mossville 138kV	44
Big Three - Sabine 230kV	Bevil - Cypress 230kV	45
Hollywood - Orange 138kV	Toomey - Marshall 138kV	57
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	70
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	70
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	71
Florence - South Jackson 115kV - Supplemental Upgrade	South Jackson - Pop Spring 115kV	72
Florence - South Jackson 115kV - Supplemental Upgrade	Kemper (SOCO) - Kemper1 (SOCO) 230kV	82
Orange - Toomey 138kV	Hollywood - Orange 138kV	86
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Pop Spring 115kV	94
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Silver Creek 115kV	100
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	104
Big Three - Sabine 230kV	Inland - McLewis 230kV	104
Florence - South Jackson 115kV - Supplemental Upgrade	Sebastopol (TVA) - Five Points MS (TVA) 161kV	126
Big Three - Sabine 230kV	Helbig - McLewis 230kV	130
Florence - South Jackson 115kV - Supplemental Upgrade	Sturgis MS (TVA) - NW Louisville (TVA) 161kV	132
Hollywood - Orange 138kV	Orange - Toomey 138kV	155
Philadelphia MS (TVA) - South Philadelphia 161kV	Philadelphia MS (TVA) - Sebastopol	198

Limiting Element	Contingency Element	ATC
	(TVA) 161kV	
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	219
Columbus MS (TVA) - Weyerhouser Tap (TVA) 161kV	Sturgis MS (TVA) - NW Louisville (TVA) 161kV	242

SOCO

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2182
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1113
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1047
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1015
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-978
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-974
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-911
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-804
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-766
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-646
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-602
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-535
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-507
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-502
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-495
Orange - Toomey 138kV	Big Three - Sabine 230kV	-436
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-400
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-374
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-373
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-349
Marshall - Mossville 138kV	Inland - McLewis 230kV	-335
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-323
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-266
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-218
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-200
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-176
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-121
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-109
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-108
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-87
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-84
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-65
Hollywood - Roy S. Nelson 138kV	Mossville - Roy S. Nelson 138kV	-58
Hollywood - Orange 138kV	Marshall - Mossville 138kV	43
Big Three - Sabine 230kV	Bevil - Cypress 230kV	44
Hollywood - Orange 138kV	Toomey - Marshall 138kV	55
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	68
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	68
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	69
Orange - Toomey 138kV	Hollywood - Orange 138kV	83

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Inland - McLewis 230kV	102
Big Three - Sabine 230kV	Helbig - McLewis 230kV	127
Hollywood - Orange 138kV	Orange - Toomey 138kV	150
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	207
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	214
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	232

SPA

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2019
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-1928
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1097
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1071
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1007
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-964
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-938
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-929
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-873
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-767
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-708
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-613
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-578
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-513
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-483
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-483
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-471
Orange - Toomey 138kV	Big Three - Sabine 230kV	-419
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-381
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-354
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-353
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-331
Marshall - Mossville 138kV	Inland - McLewis 230kV	-317
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-306
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-256
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-202
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-192
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-142
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-103
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-101
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-83
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-81
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-79
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-62
Hollywood - Orange 138kV	Marshall - Mossville 138kV	41
Big Three - Sabine 230kV	Bevil - Cypress 230kV	42
Hollywood - Orange 138kV	Toomey - Marshall 138kV	52
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	66

Limiting Element	Contingency Element	ATC
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	66
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	67
Orange - Toomey 138kV	Hollywood - Orange 138kV	79
Big Three - Sabine 230kV	Inland - McLewis 230kV	98
Big Three - Sabine 230kV	Helbig - McLewis 230kV	122
Hollywood - Orange 138kV	Orange - Toomey 138kV	143
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	167
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	207
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	211
Toomey - Marshall 138kV	Hollywood - Roy S. Nelson 138kV	245

TVA

Limiting Element	Contingency Element	ATC
Marshall - Mossville 138kV	Cypress - Hartburg 500kV	-2137
Hollywood - Roy S. Nelson 138kV	Cypress - Hartburg 500kV	-2055
Hollywood - Orange 138kV	Cypress - Hartburg 500kV	-1170
Marshall - Mossville 138kV	Big Three - Carlyss 230kV	-1100
Marshall - Mossville 138kV	Big Three - Sabine 230kV	-1035
Big Three - Sabine 230kV	Cypress - Hartburg 500kV	-1001
Hollywood - Roy S. Nelson 138kV	Big Three - Carlyss 230kV	-966
Marshall - Mossville 138kV	Hollywood - Roy S. Nelson 138kV	-960
Hollywood - Roy S. Nelson 138kV	Big Three - Sabine 230kV	-899
Marshall - Mossville 138kV	Hollywood - Orange 138kV	-793
Orange - Toomey 138kV	Cypress - Hartburg 500kV	-750
Big Three - Carlyss 230kV	Cypress - Hartburg 500kV	-637
Hollywood - Orange 138kV	Big Three - Carlyss 230kV	-595
Hollywood - Orange 138kV	Big Three - Sabine 230kV	-528
Hollywood - Roy S. Nelson 138kV	Marshall - Mossville 138kV	-499
Orange - Toomey 138kV	Big Three - Carlyss 230kV	-496
Hollywood - Roy S. Nelson 138kV	Toomey - Marshall 138kV	-488
Orange - Toomey 138kV	Big Three - Sabine 230kV	-431
Hollywood - Roy S. Nelson 138kV	Orange - Toomey 138kV	-394
Marshall - Mossville 138kV	Hartburg 500/230kV transformer 1	-368
Marshall - Mossville 138kV	Hartburg - Inland Orange 230kV	-367
Marshall - Mossville 138kV	Bevil - Cypress 230kV	-344
Marshall - Mossville 138kV	Inland - McLewis 230kV	-330
Marshall - Mossville 138kV	Ameila Bulk - Bevil 230kV	-318
Toomey - Marshall 138kV	Big Three - Carlyss 230kV	-263
Toomey - Marshall 138kV	Cypress - Hartburg 500kV	-213
Toomey - Marshall 138kV	Big Three - Sabine 230kV	-198
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-167
International Paper - Mansfield 138kV (CLECO)	Dolet Hills - S.W. Shreevport 345kV (CLECO)	-110
Hollywood - Roy S. Nelson 138kV	Hartburg 500/230kV transformer 1	-107
Hollywood - Roy S. Nelson 138kV	Hartburg - Inland Orange 230kV	-106
Orange - Toomey 138kV	Hollywood - Roy S. Nelson 138kV	-86
Hollywood - Roy S. Nelson 138kV	Bevil - Cypress 230kV	-82
Hollywood - Roy S. Nelson 138kV	Inland - McLewis 230kV	-64

Limiting Element	Contingency Element	ATC
Hollywood - Orange 138kV	Marshall - Mossville 138kV	42
Big Three - Sabine 230kV	Bevil - Cypress 230kV	43
Hollywood - Orange 138kV	Toomey - Marshall 138kV	54
Big Three - Sabine 230kV	Hartburg 500/230kV transformer 1	68
Big Three - Sabine 230kV	Ameila Bulk - Bevil 230kV	68
Big Three - Sabine 230kV	Hartburg - Inland Orange 230kV	69
Orange - Toomey 138kV	Hollywood - Orange 138kV	82
Big Three - Sabine 230kV	Inland - McLewis 230kV	101
Big Three - Sabine 230kV	Helbig - McLewis 230kV	126
Hollywood - Orange 138kV	Orange - Toomey 138kV	148
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	197
Big Three - Sabine 230kV	Hollywood - Roy S. Nelson 138kV	212
Big Three - Sabine 230kV	Hartburg - Roy S. Nelson 500kV	224

APPENDIX A: Prior Generation Interconnection and Transmission Service Requests Used in Study Models

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

PID	Substation	MW	In Service Date
PID 221	Wolfcreek	875	In Service
PID 223	PID-223 Tap	125	10/1/2010
PID 224	PID-224 Tap	100	12/1/2009
PID 233	PID-233	150	12/31/2013
PID 238	Lakeover	550	In Service
PID 240	Hot Springs	650	In Service
PID 247	PID-247	180	6/1/2011
PID 254	Wells 500kV	251	1/1/2013
PID 255	Colton 138kV	251	1/1/2013

Prior transmission service requests that were included in this study:

OASIS #	PSE	MW	Begin	End
1668165	Entergy Services (SPO)	600	1/1/2013	1/1/2043
74597193	NRG Power Marketing	300	1/1/2013	1/1/2018
74597198	NRG Power Marketing	300	1/1/2013	1/1/2018
74728369	Brazos Electric Coop	100	1/1/2012	1/1/2017
74728395	Brazos Electric Coop	100	1/1/2012	1/1/2017
74728400	Brazos Electric Coop	100	1/1/2012	1/1/2017
74728415	Brazos Electric Coop	100	1/1/2012	1/1/2017
74728420	Brazos Electric Coop	100	1/1/2012	1/1/2017
74789476	Entergy Services (SPO)	1	1/1/2012	1/1/2016
74799834	Cargill Power Markets	101	7/1/2012	7/1/2017
74799836	Cargill Power Markets	101	7/1/2012	7/1/2017
74799837	Cargill Power Markets	101	7/1/2012	7/1/2017
74799848	Cargill Power Markets	101	7/1/2013	7/1/2018
74799851	Cargill Power Markets	101	7/1/2013	7/1/2018
74799853	Cargill Power Markets	101	7/1/2013	7/1/2018
74899933	Entergy Services (SPO)	322	2/1/2011	2/1/2041
74899954	Entergy Services (SPO)	1	2/1/2011	2/1/2014
74899956	Entergy Services (SPO)	100	2/1/2011	2/1/2014
74899968	Entergy Services (SPO)	1	2/1/2013	2/1/2015
74899969	Entergy Services (SPO)	1	2/1/2012	2/1/2015
74899972	Entergy Services (SPO)	1	1/1/2015	1/1/2045
74899974	Entergy Services (SPO)	1	1/1/2015	1/1/2045
74899976	Entergy Services (SPO)	1	1/1/2015	1/1/2045
74899980	Entergy Services (SPO)	584	1/1/2015	1/1/2045
74899988	Entergy Services (SPO)	1	6/1/2012	6/1/2022
74899989	Entergy Services (SPO)	485	6/1/2012	6/1/2022
74899993	Entergy Services (SPO)	1	6/1/2012	6/1/2042
74899996	Entergy Services (SPO)	450	6/1/2012	6/1/2042
74900000	Entergy Services (SPO)	620	6/1/2012	6/1/2042
74900014	Entergy Services (SPO)	35	6/1/2012	6/1/2042
74900016	Entergy Services (SPO)	20	6/1/2012	6/1/2042
74901827	Entergy Services (SPO)	1	2/1/2011	2/1/2041
75009400	Entergy Services (SPO)	1	1/1/2012	1/1/2042
75009407	Entergy Services (SPO)	1	1/1/2012	1/1/2042
75029832	Entergy Services (SPO)	130	6/1/2015	6/1/2045