



***Feasibility Study
PID 251
150MW Plant***

Prepared by:

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

Rev	Issue Date	Description of Revision	Revised By	Project Manager
0	3/25/11	Post Feasibility Study	EC	BR
1	5/26/11	Revised report to include estimated costs for interconnection facilities and required network upgrades	EC	BR

Contents

ENERGY RESOURCE INTERCONNECTION SERVICE	2
1. INTRODUCTION	2
2. SHORT CIRCUIT ANALYSIS/BREAKER RATING ANALYSIS	2
2.1 MODEL INFORMATION	2
2.2 SHORT CIRCUIT ANALYSIS	2
2.3 ANALYSIS RESULTS	3
2.4 PROBLEM RESOLUTION.....	3
3. LOAD FLOW ANALYSIS	3
3.1 MODEL INFORMATION	3
3.2 LOAD FLOW ANALYSIS	4
3.3 ANALYSIS RESULTS	4
4. FACILITIES AT THE POINT OF INTERCONNECTION.....	5
APPENDIX A: APPROVED PROJECTS AND TRANSACTIONS IN STUDY MODE	109

Energy Resource Interconnection Service

1. Introduction

This Energy Resource Interconnection Service (ERIS) is based on the customer's request for 150MW interconnection on Entergy's transmission system between Stowell and Himex substations. The proposed commercial operation date of the project is March 31, 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 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.

The estimated cost of interconnection facilities is \$40 Million; which covers the cost of the construction of a new 69kV 5-breaker ring bus substation at the Customer's point of interconnection and the construction of the network upgrades identified in Section 3.3 and Section 4.

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 251 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 251 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 251 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 251 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 251 plant **with and without priors**. Priors included are: 221, 226, 231, 238, 240, 246, 247, and 250.

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. These upgrades can be found on Entergy's OASIS web page <http://www.oatioasis.com/EES/EESDocs/Disclaimer.html>. The loads were scaled based on the forecasted loads for the year. All firm power transactions between Entergy and its neighboring control areas were modeled for the year 2014 excluding short-term firm transactions on the same transmission interface. An economic dispatch was carried out on Entergy generating units after the scaling of load and modeling of transactions. The proposed 150MW generation interconnection point was modeled on the existing Stowell – Himex 69kV transmission line. Two (2) additional 69kV transmission circuits were required from the PID 251 interconnection point to Stowell 69kV substation. Additionally, the two (2) 138/69kV transformers located in the Stowell substation required upgrading to 200MVA. These associated facilities were modeled in the case to build a revised case for the load flow analysis. Transfers were simulated between thirteen (13) control areas and Entergy using requesting generator as the source and adjacent control area as sink.

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 PSS/MUST software by Power Technologies Incorporated (PTI). A Transmission Reliability Margin (TRM) 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

In order to inject the requested 150MW onto the transmission system, two (2) additional 69kV transmission circuits were added from PID 251 interconnection point to Stowell 69kV substation. The two (2) 138/69kV transformers located in the Stowell substation would require upgrading to 200MVA.

Summary of the analysis results are documented in Table 3.3.1 for each scenario. Detailed results for each of the 13 studied interfaces for Scenarios 1, 2, 3 and 4 are included in Tables 3.3.2 - 3.3.5.

Table 3.3.1: Summary of Results for 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	-620	-2939	-610	-870
AEPW	American Electric	2014	-307	-3616	-313	-983

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
	Power West					
AMRN	Ameren Transmission	2014	-669	-2823	-657	-848
CLEC	CLECO	2014	-221	-2783	150	-121
EES	Entergy	2014	-201	-4245	150	-2355
EMDE	Empire District Electric Co	2014	-527	-3079	-524	-896
Lafa	Lafayette Utilities System	2014	-887	-1069	-284	-986
LAGN	Louisiana Generating, LLC	2014	-271	-6280	150	-1237
LEPA	Louisiana Energy & Power Authority	2014	-253	-3055	100	-1345
OKGE	Oklahoma Gas & Electric Company	2014	-450	-3234	-451	-923
SMEPA	South Mississippi Electric Power Assoc.	2014	*	-5187	150	-2062
SOCO	Southern Company	2014	-211	-5516	150	-757
SPA	Southwest Power Administration	2014	-564	-3076	-558	-896
TVA	Tennessee Valley Authority	2014	-205	-2606	150	-802

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

4. Facilities at the Point of Interconnection

The estimated cost of the interconnection facilities is \$40 million; which covers the cost of the construction of a new 69kV 5-breaker ring bus substation at the Customer's point of interconnection. Additionally, the Customer would be responsible for the required network upgrades identified in Section 3.3. Those upgrades are two (2) additional 69kV transmission circuits, and transformer upgrades at Stowell. The two (2) additional 69kV transmission circuits will start from the PID 251 interconnection point substation and end at Stowell Substation. Due to the proximity to the coast, these new 69kV circuits will need to be built to a 138kV rating but operated at 69kV. Stowell Substation will require the upgrading of the existing two (2) 138/69kV transformers to 200 MVA and the substation will be expanded to connect the two (2) new 69kV interconnection circuits. The estimated cost of \$40 million includes the estimate cost of the 69kV 5-breaker ring bus substation and the estimated cost of the identified network upgrades.

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	LAFI	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Bayshore - Brksrk 138kV	10,000,000	X	X	X		X	X		X		X	X	X	X	X
Bonin - Cecelia 138kV	17,500,000									X					
Brookhaven - Mallalieu (MEPA) 115kV	Included in 2011 ICT Base Plan											X			
Cedar Hill - Tamina 138kV	Included in 2011 ICT Base Plan	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Conroe Bulk2 - Plantation 138kV	3,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
East Gate - Line 533 Tap8 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
French Settlement - Sorrento 230kV	14,000,000											X			
Gibson - Humphrey 115kV	13,750,000							X							
Greenwood - Humphrey 115kV	625,000							X							
Greenwood - Terrebone 115kV	12,500,000							X							
Habetz - Richard 138kV	Included in 2011 ICT Base Plan				X			X		X					
Judice - Scott1 138kV	10,000,000									X					
Himex-Stowell 69kV	14,700,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	23,750,000	X	X	X			X				X			X	
North Crowley - Scott1 138kV	21,250,000				X			X		X					
Plantation - Cedar Hill 138kV	3,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pleasant Hill 500/161kV transformer	Included in 2011 ICT Base Plan						X							X	

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Raceland - Coteau 115kV	15,000,000									X					
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade LookforTestContingency	Committed to by others											X			
Richard - Scott1 138kV	35,000,000							X							
Semere - Scott2 138kV	20,000,000							X		X					
Toledo - VP Tap 138kV	Included in 2011 ICT Base Plan	X	X				X				X			X	
Vacherie - Waterford 230kV	31,500,000									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
A.A.C. - Licar 230kV	6,250,000					X				X		X	X		
A.A.C. - Polsky Carville 230kV	6,250,000					X				X		X	X		
Acadia GSU - Colonial Academy 138kV	Included in 2011 ICT Base Plan	X		X		X	X	X		X	X	X	X	X	X
Acadia GSU - Scanlan 138kV	Included in 2011 ICT Base Plan	X		X		X	X	X		X	X	X	X	X	X
Addis - Big Cajun 1 230kV	Included in 2011 ICT Base Plan					X				X		X			
Airline - Sorrento 230kV	21,000,000					X				X		X			
Bayou Farm - Big Hill 138kV	20,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bayou Farm - Memorial 138kV	13,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bayshore - Brkscrk 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bayshore - Hankamer 138kV	4,375,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Belle Helene - Licar 230kV	5,250,000					X				X		X	X		
Belle Helene - Woodstock 230kV	1,750,000					X				X		X	X		
Bogalusa - Adams Creek 230kV ckt 1	375,000,000									X					
Bogalusa - Adams Creek 230kV ckt 2	375,000,000									X					
Bogalusa - Ramsay 230kV	32,500,000									X					
Bonin - Cecelia 138kV	17,500,000									X					
Brookhaven - Mallalieu (MEPA) 115kV	Included in 2011 ICT Base Plan											X			
Cecelia - Semere 138kV	625,000	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
Cedar Hill - Tamina 138kV	Included in 2011 ICT Base Plan	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Champagne - Plaisance (CLECO) 138kV	16,250,000			X		X		X	X	X		X	X		X
Colonial Academy - Richard 138kV	Included in 2011 ICT Base Plan	X		X		X	X	X		X	X	X	X	X	X
Coly - Vignes 230kV	Committed to by others									X		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	X	X	X	X	X
Daytona Bulk - New Long John 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
East Gate - Line 533 Tap8 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Esso - Delmont 230kV	1,250,000									X					
Florence - South Jackson 115kV - Supplemental Upgrade	Committed to by others											X			
French Settlement - Sorrento 230kV	10,000,000											X	X		X
Gypsy - Waterford 230kV CKT 1	3,500,000											X			
Habetz - Richard 138kV	Included in 2011 ICT Base Plan	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hankamer - Crooked Bayou 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hopkins - Moril 138kV	3,750,000									X					
Himex-Stowell 69kV	14,700,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Jackson Miami - Jackson Monument Street 115kV	2,856,000											X			
Jackson Miami - Rex Brown	Included in											X			

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFa	LAgN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
115kV	2011 ICT Base Plan														
Jaguar - Tap Point Esso 230kV	3,500,000					X				X					
Judice - Meaux 138kV	12,500,000									X					
Judice - Scott1 138kV	10,000,000									X					
Krotz Spring - Line 642 Tap 138kV	Included in 2011 ICT Base Plan	X	X	X		X	X		X	X	X	X	X	X	X
Mallalieu (MEPA) - Norfield 115kV	8,750,000											X			
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	23,750,000	X	X	X			X				X			X	
McComb - Norfield 115kV	11,250,000											X			
Memorial - Mid County 138kV	1,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Moril - Cecelia 138kV	31,250,000									X					
Moril - Duboin 138kV	6,250,000									X					
Moril - Segura (CLECO) 138kV	750,000									X					
North Crowley - Richard 138kV	15,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
North Crowley - Scott1 138kV	21,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Plantation - Cedar Hill 138kV	3,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Committed to by others								X	X		X	X		X
Raywood - 5L541T43 138kV	5,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rex Brown W - Rex Brown C 115kV ckt 1	Included in 2011 ICT Base Plan											X			
Richard - Scott1 138kV	35,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Scanlan - Scott2 138kV	12,500,000								X						
Scott1 - Bonin 138kV	6,250,000								X						

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Semere - Scott2 138kV	20,000,000	X		X		X	X	X		X	X	X	X	X	X
Shiloh - 5L541T43 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Shiloh - Brksck 138kV	3,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stowell - Big Hill 138kV	18,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stowell - Crooked Bayou 138kV	15,000,000	X	X	X	X	X	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
Vulchlor - Woodstock 230kV	1,750,000					X				X		X	X		
Willow Glen - Webre 500kV	Included in 2011 ICT Base Plan	X	X	X	X	X	X		X	X	X	X	X	X	X
Willow Glen - Willow Glen 2 500/138kV transformer 1	Included in 2011 ICT Base Plan					X				X					
Willow Glen 500/230kV Transformer	Included in 2011 ICT Base Plan					X				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
Greenwood - Terrebone 115kV	12,500,000							X							
Himex-Stowell 69kV	14,700,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	23,750,000	X	X	X			X				X			X	
Raceland - Coteau 115kV	15,000,000									X					
Vacherie - Waterford 230kV	22,500,000									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
A.A.C. - Licar 230kV	6,250,000					X				X		X			
A.A.C. - Polsky Carville 230kV	6,250,000					X				X		X			
Bayou Farm - Big Hill 138kV	20,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bayou Farm - Memorial 138kV	13,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bayou Laboutte 500/230kV transformer 1	Included in 2011 ICT Base Plan	X	X	X		X	X		X	X	X	X	X	X	X
Bayshore - Brksckr 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bayshore - Hankamer 138kV	4,375,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Belle Helene - Licar 230kV	5,250,000					X				X		X			
Belle Helene - Woodstock 230kV	1,750,000					X				X		X			
Champagne - Krotz Spring 138kV	17,500,000	X		X		X	X		X	X	X	X	X	X	X
Champagne - Plaisance (CLECO) 138kV	16,250,000			X		X		X	X	X		X	X		X
Coly - Vignes 230kV - Supplemental Upgrade	Committed to by others									X					
Coly 500/230kV transformer	21,000,000					X				X					
Coughlin - Plaisance 138kV (CLECO)	22,500,000												X		X
Florence - South Jackson 115kV - Supplemental Upgrade	Committed to by others											X			

Limiting Element	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Habetz - Richard 138kV	Included in 2011 ICT Base Plan							X		X					
Hankamer - Crooked Bayou 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Himex-Stowell 69kV	14,700,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hopkins - Moril 138kV	3,750,000									X					
Jackson Miami - Rex Brown 115kV	Included in 2011 ICT Base Plan											X			
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	23,750,000	X	X	X			X				X			X	
Memorial - Mid County 138kV	1,250,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Moril - Duboin 138kV	6,250,000									X					
Moril - Segura (CLECO) 138kV	750,000									X					
North Crowley - Scott1 138kV	15,000,000	X	X	X		X	X	X		X	X	X	X	X	X
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Committed to by others					X		X	X	X		X	X		X
Raywood - 5L541T43 138kV	5,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rex Brown W - Rex Brown C 115kV ckt 1	Included in 2011 ICT Base Plan											X			
Richard - Scott1 138kV	35,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Semere - Scott2 138kV	20,000,000							X		X					

Limiting Element	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	Lagn	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Shiloh - 5L541T43 138kV	8,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Shiloh - Brksckr 138kV	15,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stowell - Big Hill 138kV	18,750,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stowell - Crooked Bayou 138kV	15,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vulchlor - Woodstock 230kV	1,750,000					X				X		X			
Webre - Bayou Laboutte 500kV ckt1	Included in 2011 ICT Base Plan									X					

3.3.1: DETAILS OF SCENARIO 1

AECI

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-620
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-192
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-131
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	27
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	128
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	128
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	146
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	146
Bayshore - Brkschr 138kV	China Bulk - Sabine 230kV	149
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	150

AEPW

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-307
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-157
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-107
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	22
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	111
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	118
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	118
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	134
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	135
Bayshore - Brkschr 138kV	China Bulk - Sabine 230kV	148

AMRN

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-669
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-196
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-133
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	27
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	129
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	129
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	147
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	147
Bayshore - Brkschr 138kV	China Bulk - Sabine 230kV	149

CLECO

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-221
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-150
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	31
North Crowley - Scott1 138kV	Wells 500/230kV transformer	100
Habetz - Richard 138kV	Wells 500/230kV transformer	103
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	136
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	136

EES

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-201
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-137
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	28
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	126
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	126
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	143
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	144
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	150

EMDE

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-527
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-185
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-126
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV 3 Winding Transformer	-108
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	26
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	126
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	126
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	140
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	143
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	144
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	149

LAFA

Limiting Element	Contingency Element	ATC
Greenwood - Terrebone 115kV	Webre - Wells 500kV	-887
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-272
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-185
Semere - Scott2 138kV	Habetz - Richard 138kV	-164
Greenwood - Humphrey 115kV	Webre - Wells 500kV	-163
Semere - Scott2 138kV	Greenwood - Terrebone 115kV	-126
Semere - Scott2 138kV	Wells 500/230kV transformer	-78
North Crowley - Scott1 138kV	Habetz - Richard 138kV	-34
Gibson - Humphrey 115kV	Webre - Wells 500kV	22
Habetz - Richard 138kV	Wells 500/230kV transformer	25
North Crowley - Scott1 138kV	Wells 500/230kV transformer	26
Habetz - Richard 138kV	Greenwood - Terrebone 115kV	36
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	38
North Crowley - Scott1 138kV	Greenwood - Terrebone 115kV	71
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	88
North Crowley - Scott1 138kV	Richard - Scott1 138kV	93
Richard - Scott1 138kV	Habetz - Richard 138kV	140
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	145
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	145

LAGN

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-271
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-184
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	38
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	144
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	144
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	150

LEPA

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-253
Semere - Scott2 138kV	Wells 500/230kV transformer	-233
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	-221
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-172
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	-54
Judice - Scott1 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	4
Judice - Scott1 138kV	Sellers Road (CLECO) - Segura (CLECO) 230kV	7
Judice - Scott1 138kV	Segura (CLECO) 230/138kV transformer'	13
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	35

Limiting Element	Contingency Element	ATC
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	66
Habetz - Richard 138kV	Wells 500/230kV transformer	92
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	100
North Crowley - Scott1 138kV	Wells 500/230kV transformer	101
Raceland - Coteau 115kV	Terrebone 230/115kV transformer	106
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	141
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	141

OKGE

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-450
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-177
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-120
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	25
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	124
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	124
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	131
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	141
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	142
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	149

SMEPA

Limiting Element	Contingency Element	ATC
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	Canton South - Canton 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Ray Braswell 500/115kV transformer 1	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Attala - McAdams 230kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Attala 230/115kV transformer	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Brookhaven - Wesson 115kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Franklin - Grand Gulf 500kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Sansouci - Shelby (TVA) 500kV	*
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Vicksburg - Waterways 115kV	*
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-225
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-153
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	31

Brookhaven - Mallalieu (MEPA) 115kV	Bogalusa - Franklin 500kV	65
Brookhaven - Mallalieu (MEPA) 115kV	Bogalusa - Adams Creek 500/230kV transformer	65
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	108
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	108
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	136
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	136
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	150

SOCO

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-211
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-143
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	29
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	132
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	132
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	150

SPA

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-564
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-188
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-128
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV 3 Winding Transformer	-55
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	26
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	127
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	127
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	143
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	144
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	145
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	149

TVA

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-205
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-139
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	29
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	131
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	131
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	149
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	150
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	150

3.3.2: DETAILS OF SCENARIO 2

AECI

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2939
Semere - Scott2 138kV	Richard - Wells 500kV	-2469
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2179
Habetz - Richard 138kV	Richard - Wells 500kV	-2104
Richard - Scott1 138kV	Richard - Wells 500kV	-1679
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1423
North Crowley - Richard 138kV	Richard - Wells 500kV	-1242
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1063
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-803
Cecelia - Semere 138kV	Richard - Wells 500kV	-710
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-235
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-224
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-162
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-47
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-20
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	45
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	53
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	53
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	62
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	69
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	82
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	117
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	134
Bayshore - Hankamer 138kV	Base Case	140

AEPW

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-3616
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2456
Habetz - Richard 138kV	Richard - Wells 500kV	-2385
Richard - Scott1 138kV	Richard - Wells 500kV	-1893

Limiting Element	Contingency Element	ATC
North Crowley - Richard 138kV	Richard - Wells 500kV	-1400
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-288
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-183
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-132
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-59
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-10
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-3
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	33
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	41
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	48
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	55
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	64
Bayshore - Brkscrk 138kV	Base Case	64
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	64
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	67
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	67
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Shiloh - Brkscrk 138kV	Base Case	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75

Limiting Element	Contingency Element	ATC
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	79
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	82
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Shiloh - 5L541T43 138kV	Base Case	91
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	107
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	117
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	125
Hankamer - Crooked Bayou 138kV	Base Case	128
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	138
Bayshore - Hankamer 138kV	Base Case	140

AMRN

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2823
Semere - Scott2 138kV	Richard - Wells 500kV	-2405
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2125
Habetz - Richard 138kV	Richard - Wells 500kV	-2050
Richard - Scott1 138kV	Richard - Wells 500kV	-1637
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1386
North Crowley - Richard 138kV	Richard - Wells 500kV	-1211
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1036
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-782
Cecelia - Semere 138kV	Richard - Wells 500kV	-691
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-447
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-228
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-227
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-165
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-45
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-22

Limiting Element	Contingency Element	ATC
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	53
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	62
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	70
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	82
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	117
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	134
Bayshore - Hankamer 138kV	Base Case	140

CLECO

Limiting Element	Contingency Element	ATC
Habetz - Richard 138kV	Richard - Wells 500kV	-2783
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2721
Richard - Scott1 138kV	Richard - Wells 500kV	-2097
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-1709
North Crowley - Richard 138kV	Richard - Wells 500kV	-1551
North Crowley - Scott1 138kV	Wells 500/230kV transformer	-809
Habetz - Richard 138kV	Wells 500/230kV transformer	-759
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-258
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-186
Richard - Scott1 138kV	Wells 500/230kV transformer	-121
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	16
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	56
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	57

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brksckr 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brksckr 138kV	68
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brksckr 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brksckr 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	74
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brksckr 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brksckr 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	80
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brksckr 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brksckr 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brksckr 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brksckr 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Base Case	130
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	141
Bayshore - Hankamer 138kV	Base Case	141

EES

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-4245
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-4131
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-3721
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-3704
Coly - Vignes 230kV - Supplemental Upgrade	Waterford - Willow Glen 500kV	-3613
Coly - Vignes 230kV - Supplemental Upgrade	Waterford 500/230 transformer kV	-3613
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-3587
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-3448
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-3448
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-3364
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-3364
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-3169
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-3064
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-3064
Vulchlor - Woodstock 230kV	Coly - Vignes 230kV	-2442
Semere - Scott2 138kV	Richard - Wells 500kV	-2420
Belle Helene - Woodstock 230kV	Coly - Vignes 230kV	-2353
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	-2322
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-2133
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-2133
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2121
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-2079
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-2079
Habetz - Richard 138kV	Richard - Wells 500kV	-2069
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	-1997
Vulchlor - Woodstock 230kV	Airline - Sorrento 230kV	-1835
Belle Helene - Woodstock 230kV	Airline - Sorrento 230kV	-1769
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-1745
Willow Glen 500/230kV Transformer	Waterford - Willow Glen 500kV	-1673
Willow Glen 500/230kV Transformer	Waterford 500/230 transformer kV	-1673
Coly - Vignes 230kV - Supplemental Upgrade	Wintz - Willow Glen 230kV	-1672
Richard - Scott1 138kV	Richard - Wells 500kV	-1633
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-1600
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-1450
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1318
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	-1277
North Crowley - Richard 138kV	Richard - Wells 500kV	-1207
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	-1078

Limiting Element	Contingency Element	ATC
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-994
Airline - Sorrento 230kV	Waterford - Willow Glen 500kV	-878
Airline - Sorrento 230kV	Waterford 500/230 transformer kV	-878
Jaguar - Tap Point Esso 230kV	Addis - Big Cajun 1 230kV	-815
Willow Glen 500/230kV Transformer	Jaguar - Tap Point Esso 230kV	-785
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-756
Cecelia - Semere 138kV	Richard - Wells 500kV	-702
A.A.C. - Polsky Carville 230kV	Addis - Wilbert 138kV	-571
A.A.C. - Licar 230kV	Addis - Wilbert 138kV	-423
Willow Glen 500/230kV Transformer	Addis - Big Cajun 1 230kV	-422
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-368
Willow Glen - Willow Glen 2 500/138kV transformer 1	Willow Glen 500/230kV Transformer	-333
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-235
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-226
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-170
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-44
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Willow Glen 500/230kV Transformer	Fancy Point 500/230kV transformer 1	-8
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	16
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	52
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brksckr 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brksckr 138kV	69

Limiting Element	Contingency Element	ATC
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	80
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	86
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Belle Helene - Licar 230kV	Addis - Wilbert 138kV	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	110
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	132
Bayshore - Hankamer 138kV	Base Case	141
Willow Glen 500/230kV Transformer	Big Cajun 2 - Fancy Point 500kV	145

EMDE

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-4245
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-4131
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-3721
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-3704
Coly - Vignes 230kV - Supplemental Upgrade	Waterford - Willow Glen 500kV	-3613

Limiting Element	Contingency Element	ATC
Coly - Vignes 230kV - Supplemental Upgrade	Waterford 500/230 transformer kV	-3613
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-3587
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-3448
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-3448
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-3364
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-3364
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-3169
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-3064
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-3064
Vulchlor - Woodstock 230kV	Coly - Vignes 230kV	-2442
Semere - Scott2 138kV	Richard - Wells 500kV	-2420
Belle Helene - Woodstock 230kV	Coly - Vignes 230kV	-2353
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	-2322
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-2133
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-2133
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2121
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-2079
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-2079
Habetz - Richard 138kV	Richard - Wells 500kV	-2069
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	-1997
Vulchlor - Woodstock 230kV	Airline - Sorrento 230kV	-1835
Belle Helene - Woodstock 230kV	Airline - Sorrento 230kV	-1769
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-1745
Willow Glen 500/230kV Transformer	Waterford - Willow Glen 500kV	-1673
Willow Glen 500/230kV Transformer	Waterford 500/230 transformer kV	-1673
Coly - Vignes 230kV - Supplemental Upgrade	Wintz - Willow Glen 230kV	-1672
Richard - Scott1 138kV	Richard - Wells 500kV	-1633
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-1600
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-1450
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1318
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	-1277
North Crowley - Richard 138kV	Richard - Wells 500kV	-1207
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	-1078
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-994
Airline - Sorrento 230kV	Waterford - Willow Glen 500kV	-878
Airline - Sorrento 230kV	Waterford 500/230 transformer kV	-878
Jaguar - Tap Point Esso 230kV	Addis - Big Cajun 1 230kV	-815
Willow Glen 500/230kV Transformer	Jaguar - Tap Point Esso 230kV	-785
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-756
Cecelia - Semere 138kV	Richard - Wells 500kV	-702
A.A.C. - Polsky Carville 230kV	Addis - Wilbert 138kV	-571
A.A.C. - Licar 230kV	Addis - Wilbert 138kV	-423
Willow Glen 500/230kV Transformer	Addis - Big Cajun 1 230kV	-422
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-368
Willow Glen - Willow Glen 2 500/138kV transformer 1	Willow Glen 500/230kV Transformer	-333

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-235
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-226
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-170
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-44
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Willow Glen 500/230kV Transformer	Fancy Point 500/230kV transformer 1	-8
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	16
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	52
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77

Limiting Element	Contingency Element	ATC
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	80
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	86
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Belle Helene - Licar 230kV	Addis - Wilbert 138kV	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	110
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	132
Bayshore - Hankamer 138kV	Base Case	141
Willow Glen 500/230kV Transformer	Big Cajun 2 - Fancy Point 500kV	145

Lafa

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-1069
Semere - Scott2 138kV	Richard - Wells 500kV	-980
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	-928
North Crowley - Scott1 138kV	Richard - Wells 500kV	-880
Habetz - Richard 138kV	Richard - Wells 500kV	-810
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-704
Richard - Scott1 138kV	Richard - Wells 500kV	-678
Semere - Scott2 138kV	Bonin - Cecelia 138kV	-574
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-565
North Crowley - Richard 138kV	Richard - Wells 500kV	-501
North Crowley - Scott1 138kV	Richard - Scott1 138kV	-483
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-422
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-405
Semere - Scott2 138kV	Richard - Scott1 138kV	-393
Semere - Scott2 138kV	Habetz - Richard 138kV	-393
Semere - Scott2 138kV	North Crowley - Richard 138kV	-373
Semere - Scott2 138kV	Sellers Road (CLECO) - Labbe (Lafa)	-351

Limiting Element	Contingency Element	ATC
	230kV	
Semere - Scott2 138kV	Webre - Wells 500kV	-351
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-319
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-318
Cecelia - Semere 138kV	Richard - Wells 500kV	-282
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	-266
North Crowley - Scott1 138kV	Webre - Wells 500kV	-240
North Crowley - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	-238
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-229
North Crowley - Scott1 138kV	Colonial Academy - Richard 138kV	-224
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	-222
Richard - Scott1 138kV	North Crowley - Richard 138kV	-222
North Crowley - Scott1 138kV	Habetz - Richard 138kV	-218
North Crowley - Scott1 138kV	Wells 500/230kV transformer	-215
North Crowley - Scott1 138kV	Acadia GSU - Colonial Academy 138kV	-206
Habetz - Richard 138kV	Wells 500/230kV transformer	-185
Habetz - Richard 138kV	Flander - Acadian 230kV (LAFA)	-179
Richard - Scott1 138kV	North Crowley - Scott1 138kV	-175
Habetz - Richard 138kV	Cocodrie - Vil Plat 230kV	-171
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-165
Habetz - Richard 138kV	Vil Plat - West Fork 230kV	-143
Champagne - Plaisance (CLECO) 138kV	Colfax - Montgomery 230kV	-122
North Crowley - Richard 138kV	Richard - Scott1 138kV	-68
Richard - Scott1 138kV	Wells 500/230kV transformer	-32
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	16
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Semere - Scott2 138kV	Base Case	27
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Richard - Scott1 138kV	Habetz - Richard 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Richard - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Richard - Scott1 138kV	Colonial Academy - Richard 138kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Colonial Academy - Richard 138kV	Wells 500/230kV transformer	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	57
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	60
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	60
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Champagne - Plaisance (CLECO) 138kV	Roy S. Nelson - Richard 500kV	73
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	79
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	80
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Champagne - Plaisance (CLECO) 138kV	Riverbend - Fancy Point 230kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Scott1 - Bonin 138kV	Richard - Wells 500kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Colonial Academy - Richard 138kV	Habetz - Richard 138kV	112
Colonial Academy - Richard 138kV	Richard - Scott1 138kV	116

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Base Case	118
Scanlan - Scott2 138kV	Richard - Wells 500kV	123
North Crowley - Richard 138kV	Wells 500/230kV transformer	128
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	141
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	148
Colonial Academy - Richard 138kV	North Crowley - Richard 138kV	149

LAGN

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-6280
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2887
Habetz - Richard 138kV	Richard - Wells 500kV	-2745
Richard - Scott1 138kV	Richard - Wells 500kV	-2225
North Crowley - Richard 138kV	Richard - Wells 500kV	-1645
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-383
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-319
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-230
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-222
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-50
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-6
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	16
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	57
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	59
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	59
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	78
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	79
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	80
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	141
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	147

LEPA

Limiting Element	Contingency Element	ATC
Addis - Big Cajun 1 230kV	Enjay - Fancy 230kV	-3055
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Polsky Carville 230kV	-2963
Coly - Vignes 230kV - Supplemental	A.A.C. - Licar 230kV	-2942

Limiting Element	Contingency Element	ATC
Upgrade		
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	-2868
Addis - Big Cajun 1 230kV	Enjay - Jaguar 230kV	-2790
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Woodstock 230kV	-2635
Coly - Vignes 230kV - Supplemental Upgrade	Vulchlor - Woodstock 230kV	-2634
Addis - Big Cajun 1 230kV	Jaguar - Tap Point Esso 230kV	-2476
Addis - Big Cajun 1 230kV	Coly - McKnight 500kV	-2382
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-2273
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-2222
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-2202
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-2071
Coly - Vignes 230kV - Supplemental Upgrade	Bogalusa - Adams Creek 500/230kV transformer	-2036
Coly - Vignes 230kV - Supplemental Upgrade	Bogalusa - Franklin 500kV	-2036
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-1983
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-1952
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-1912
Coly - Vignes 230kV - Supplemental Upgrade	Conway - Vulchlor 230kV	-1802
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	-1677
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	-1670
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-1663
Addis - Big Cajun 1 230kV	Willow Glen 500/230kV Transformer	-1629
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-1592
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	-1542
Coly - Vignes 230kV - Supplemental Upgrade	Waterford - Willow Glen 500kV	-1442
Coly - Vignes 230kV - Supplemental Upgrade	Waterford 500/230 transformer kV	-1442
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	-1381
North Crowley - Scott1 138kV	Richard - Scott1 138kV	-1363
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-1332
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-1332
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-1295
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-1295
Semere - Scott2 138kV	Richard - Wells 500kV	-1255
North Crowley - Scott1 138kV	Richard - Wells 500kV	-1250
Belle Helene - Woodstock 230kV	Coly - Vignes 230kV	-1168
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-1167
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-1166
Vulchlor - Woodstock 230kV	Coly - Vignes 230kV	-1166
Habetz - Richard 138kV	Richard - Wells 500kV	-1142
A.A.C. - Polsky Carville 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1131
A.A.C. - Polsky Carville 230kV	Bogalusa - Franklin 500kV	-1131
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	-1124

Limiting Element	Contingency Element	ATC
Airline - Sorrento 230kV	A.A.C. - Polsky Carville 230kV	-1113
Airline - Sorrento 230kV	A.A.C. - Licar 230kV	-1091
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-1049
A.A.C. - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1045
A.A.C. - Licar 230kV	Bogalusa - Franklin 500kV	-1045
Airline - Sorrento 230kV	Belle Helene - Licar 230kV	-1017
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-988
Richard - Scott1 138kV	Richard - Wells 500kV	-963
Semere - Scott2 138kV	Wells 500/230kV transformer	-950
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-901
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	-879
Belle Helene - Woodstock 230kV	Airline - Sorrento 230kV	-878
Vulchlor - Woodstock 230kV	Airline - Sorrento 230kV	-876
Willow Glen 500/230kV Transformer	Waterford - Willow Glen 500kV	-874
Willow Glen 500/230kV Transformer	Waterford 500/230 transformer kV	-874
Semere - Scott2 138kV	Habetz - Richard 138kV	-862
North Crowley - Scott1 138kV	Wells 500/230kV transformer	-817
Airline - Sorrento 230kV	Belle Helene - Woodstock 230kV	-784
Airline - Sorrento 230kV	Vulchlor - Woodstock 230kV	-783
Champagne - Plaisance (CLECO) 138kV	Vatican - Scott1 138kV	-774
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-770
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-761
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-761
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-760
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-760
Belle Helene - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-744
Belle Helene - Licar 230kV	Bogalusa - Franklin 500kV	-744
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	-743
Semere - Scott2 138kV	Bonin - Cecelia 138kV	-734
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-724
North Crowley - Richard 138kV	Richard - Wells 500kV	-713
Bogalusa - Adams Creek 230kV ckt 1	Bogalusa - Adams Creek 230kV ckt 2	-707
Semere - Scott2 138kV	Flander - Habetz 138kV (CLECO/LAFA)	-702
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	-702
Habetz - Richard 138kV	Wells 500/230kV transformer	-678
Willow Glen 500/230kV Transformer	Jaguar - Tap Point Esso 230kV	-626
Richard - Scott1 138kV	North Crowley - Richard 138kV	-626
North Crowley - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	-624
Semere - Scott2 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	-619
North Crowley - Scott1 138kV	Colonial Academy - Richard 138kV	-615
North Crowley - Scott1 138kV	Habetz - Richard 138kV	-612
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	-596
Habetz - Richard 138kV	Flander - Acadian 230kV (LAFA)	-592
North Crowley - Scott1 138kV	Acadia GSU - Colonial Academy 138kV	-566
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	-563
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-541

Limiting Element	Contingency Element	ATC
Addis - Big Cajun 1 230kV	Waterford - Willow Glen 500kV	-512
Addis - Big Cajun 1 230kV	Waterford 500/230 transformer kV	-512
Richard - Scott1 138kV	North Crowley - Scott1 138kV	-494
Judice - Scott1 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	-477
Addis - Big Cajun 1 230kV	Coly - Willow Glen 500kV	-474
Judice - Scott1 138kV	Sellers Road (CLECO) - Segura (CLECO) 230kV	-473
Judice - Scott1 138kV	Segura (CLECO) 230/138kV transformer'	-466
Jaguar - Tap Point Esso 230kV	Addis - Big Cajun 1 230kV	-465
Habetz - Richard 138kV	Cocodrie - Vil Plat 230kV	-450
Bonin - Cecelia 138kV	Acadia GSU - Scanlan 138kV	-432
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-408
Habetz - Richard 138kV	Vil Plat - West Fork 230kV	-374
Willow Glen 500/230kV Transformer	Addis - Big Cajun 1 230kV	-365
Cecelia - Semere 138kV	Richard - Wells 500kV	-361
Airline - Sorrento 230kV	Waterford - Willow Glen 500kV	-351
Airline - Sorrento 230kV	Waterford 500/230 transformer kV	-351
A.A.C. - Polsky Carville 230kV	Monochem1 - Southwood 138kV	-348
A.A.C. - Polsky Carville 230kV	Addis - Wilbert 138kV	-326
Bogalusa - Ramsay 230kV	Bogalusa - Talisheek 230kV	-304
Willow Glen - Willow Glen 2 500/138kV transformer 1	Willow Glen 500/230kV Transformer	-300
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-295
A.A.C. - Licar 230kV	Monochem1 - Southwood 138kV	-261
A.A.C. - Licar 230kV	Addis - Wilbert 138kV	-240
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-234
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	-231
Coly - Vignes 230kV - Supplemental Upgrade	Base Case	-224
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-213
North Crowley - Richard 138kV	Richard - Scott1 138kV	-193
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-179
Judice - Scott1 138kV	Flander - Segura 138kV (CLECO)	-166
Champagne - Plaisance (CLECO) 138kV	Colfax - Montgomery 230kV	-127
Richard - Scott1 138kV	Wells 500/230kV transformer	-122
Moril - Segura (CLECO) 138kV	Hopkins - Segura 138kV (CLECO)	-88
Moril - Cecelia 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	-59
Moril - Cecelia 138kV	Sellers Road (CLECO) - Segura (CLECO) 230kV	-55
Moril - Cecelia 138kV	Segura (CLECO) 230/138kV transformer'	-48
Esso - Delmont 230kV	Willow Glen - Webre 500kV	-43
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-37
Coly - Vignes 230kV	A.A.C. - Polsky Carville 230kV	-28
Judice - Scott1 138kV	Richard - Wells 500kV	-22
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	-19
Hopkins - Moril 138kV	Hopkins - Segura 138kV (CLECO)	-13
Shiloh - Brksckr 138kV	China Bulk - Sabine 230kV	-12
Coly - Vignes 230kV	A.A.C. - Licar 230kV	-7

Limiting Element	Contingency Element	ATC
Willow Glen 500/230kV Transformer	Fancy Point 500/230kV transformer 1	-6
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Moril - Duboin 138kV	Hopkins - Morbhan 138kV (CLECO)	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Judice - Scott1 138kV	Maurice - Scott 69kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	16
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Moril - Duboin 138kV	Hopkins - Patout 138kV (CLECO)	31
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Belle Helene - Licar 230kV	Donaldsonville - Evergreen 230kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Airline - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	34
Airline - Sorrento 230kV	Bogalusa - Franklin 500kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Belle Helene - Licar 230kV	Monochem1 - Southwood 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Airline - Sorrento 230kV	Conway - Vulchlor 230kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	57
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	58
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brksckr 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Coly - Vignes 230kV	Belle Helene - Licar 230kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Stowell - Big Hill 138kV	Bayshore - Brksckr 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brksckr 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brksckr 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Moril - Duboin 138kV	Patout - Teche 138kV (CLECO)	76

Limiting Element	Contingency Element	ATC
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	77
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	80
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Champagne - Plaisance (CLECO) 138kV	Roy S. Nelson - Richard 500kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Richard - Scott1 138kV	Habetz - Richard 138kV	94
Champagne - Plaisance (CLECO) 138kV	Riverbend - Fancy Point 230kV	94
Richard - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	95
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Richard - Scott1 138kV	Webre - Wells 500kV	103
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Belle Helene - Woodstock 230kV	Tezcuco - Waterford 230kV	120
Vulchlor - Woodstock 230kV	Tezcuco - Waterford 230kV	125
Bonin - Cecelia 138kV	Scanlan - Scott2 138kV	126
Judice - Meaux 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	128
Hankamer - Crooked Bayou 138kV	Base Case	130
Addis - Big Cajun 1 230kV	Enco - Formosa 230kV	130
Judice - Meaux 138kV	Sellers Road (CLECO) - Segura (CLECO) 230kV	132
Willow Glen 500/230kV Transformer	Big Cajun 2 - Fancy Point 500kV	136
Judice - Meaux 138kV	Segura (CLECO) 230/138kV transformer'	139
Bayshore - Hankamer 138kV	Base Case	141
Moril - Duboin 138kV	Webre - Wells 500kV	145
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	145
Judice - Scott1 138kV	Maurice - Aver Tap 69kV	145
Bonin - Cecelia 138kV	Semere - Scott2 138kV	147

OKGE

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-3234
Semere - Scott2 138kV	Richard - Wells 500kV	-2624
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2310
Habetz - Richard 138kV	Richard - Wells 500kV	-2235
Richard - Scott1 138kV	Richard - Wells 500kV	-1780
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1512
North Crowley - Richard 138kV	Richard - Wells 500kV	-1317
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1130
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-853
Cecelia - Semere 138kV	Richard - Wells 500kV	-754
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-258
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-206
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-149
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-52
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-15
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	51
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	55
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Bayshore - Brksckr 138kV	Base Case	64
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68

Limiting Element	Contingency Element	ATC
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	79
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	82
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Shiloh - 5L541T43 138kV	Base Case	91
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	117
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	130
Bayshore - Hankamer 138kV	Base Case	140

SMEPA

Limiting Element	Contingency Element	ATC
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Polsky Carville 230kV	-5187
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Licar 230kV	-5150
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	-5021
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Woodstock 230kV	-4612
Coly - Vignes 230kV - Supplemental Upgrade	Vulchlor - Woodstock 230kV	-4611
Coly - Vignes 230kV - Supplemental	Waterford - Willow Glen 500kV	-3849

Limiting Element	Contingency Element	ATC
Upgrade		
Coly - Vignes 230kV - Supplemental Upgrade	Waterford 500/230 transformer kV	-3849
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-3552
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-3441
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-3327
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-3327
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-3235
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-3235
Coly - Vignes 230kV - Supplemental Upgrade	Conway - Vulchlor 230kV	-3154
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-3099
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-3051
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	-2992
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-2988
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-2913
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-2913
Willow Glen 500/230kV Transformer	Waterford - Willow Glen 500kV	-2895
Willow Glen 500/230kV Transformer	Waterford 500/230 transformer kV	-2895
Coly - Vignes 230kV - Supplemental Upgrade	Bogalusa - Adams Creek 500/230kV transformer	-2674
Coly - Vignes 230kV - Supplemental Upgrade	Bogalusa - Franklin 500kV	-2674
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-2599
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-1972
Airline - Sorrento 230kV	A.A.C. - Polsky Carville 230kV	-1948
Airline - Sorrento 230kV	A.A.C. - Licar 230kV	-1911
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-1901
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-1901
Semere - Scott2 138kV	Richard - Wells 500kV	-1899
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-1898
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-1898
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-1838
Belle Helene - Woodstock 230kV	Coly - Vignes 230kV	-1826
Vulchlor - Woodstock 230kV	Coly - Vignes 230kV	-1822
Airline - Sorrento 230kV	Belle Helene - Licar 230kV	-1781
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-1730
North Crowley - Scott1 138kV	Richard - Wells 500kV	-1688
Habetz - Richard 138kV	Richard - Wells 500kV	-1620
Brookhaven - Mallalieu (MEPA) 115kV	Bogalusa - Adams Creek 500/230kV transformer	-1571
Brookhaven - Mallalieu (MEPA) 115kV	Bogalusa - Franklin 500kV	-1571
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-1494
Belle Helene - Woodstock 230kV	Airline - Sorrento 230kV	-1373
Airline - Sorrento 230kV	Belle Helene - Woodstock 230kV	-1373
Airline - Sorrento 230kV	Vulchlor - Woodstock 230kV	-1371
Vulchlor - Woodstock 230kV	Airline - Sorrento 230kV	-1369
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	-1369
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-1363

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1328
A.A.C. - Polsky Carville 230kV	Bogalusa - Franklin 500kV	-1328
Richard - Scott1 138kV	Richard - Wells 500kV	-1301
A.A.C. - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1228
A.A.C. - Licar 230kV	Bogalusa - Franklin 500kV	-1228
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1095
Mallalieu (MEPA) - Norfield 115kV	Bogalusa - Adams Creek 500/230kV transformer	-1094
Mallalieu (MEPA) - Norfield 115kV	Bogalusa - Franklin 500kV	-1094
Rex Brown W - Rex Brown C 115kV ckt 1	Ray Braswell 500/115kV transformer 1	-1006
North Crowley - Richard 138kV	Richard - Wells 500kV	-962
Rex Brown W - Rex Brown C 115kV ckt 1	South Jackson 230/115kV transformer 1	-950
Airline - Sorrento 230kV	Waterford - Willow Glen 500kV	-936
Airline - Sorrento 230kV	Waterford 500/230 transformer kV	-936
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	-901
Belle Helene - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-874
Belle Helene - Licar 230kV	Bogalusa - Franklin 500kV	-874
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-818
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-618
Cecelia - Semere 138kV	Richard - Wells 500kV	-546
A.A.C. - Polsky Carville 230kV	Donaldsonville - Evergreen 230kV	-541
A.A.C. - Polsky Carville 230kV	Monochem1 - Southwood 138kV	-526
A.A.C. - Licar 230kV	Donaldsonville - Evergreen 230kV	-406
A.A.C. - Licar 230kV	Monochem1 - Southwood 138kV	-394
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-305
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-305
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-290
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	-283
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-262
McComb - Norfield 115kV	Bogalusa - Adams Creek 500/230kV transformer	-238
McComb - Norfield 115kV	Bogalusa - Franklin 500kV	-238
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-189
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Adams Creek 500/230kV transformer	-173
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Franklin 500kV	-173
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-168
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-69
Coly - Vignes 230kV	A.A.C. - Polsky Carville 230kV	-49
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-33
Rex Brown W - Rex Brown C 115kV ckt 1	Klean - Jackson Northeast 115kV	-26
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Coly - Vignes 230kV	A.A.C. - Licar 230kV	-12
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5

Limiting Element	Contingency Element	ATC
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	16
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Airline - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	45
Airline - Sorrento 230kV	Bogalusa - Franklin 500kV	45
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46

Limiting Element	Contingency Element	ATC
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Jackson Miami - Jackson Monument Street 115kV	South Jackson 230/115kV transformer 1	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Florence - South Jackson 115kV - Supplemental Upgrade	South Jackson - Pop Spring 115kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	56
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Belle Helene - Licar 230kV	Monochem1 - Southwood 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Belle Helene - Licar 230kV	Donaldsonville - Evergreen 230kV	68
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	73
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	74
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77

Limiting Element	Contingency Element	ATC
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	80
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Pop Spring 115kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Airline - Sorrento 230kV	Conway - Vulchlor 230kV	85
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Silver Creek 115kV	87
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Rex Brown W - Rex Brown C 115kV ckt 1	Klean - Flowood 115kV	97
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Gypsy - Waterford 230kV CKT 1	Waterford - Nine Mile 230kV	106
Belle Helene - Woodstock 230kV	Tezcuco - Waterford 230kV	107
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Vulchlor - Woodstock 230kV	Tezcuco - Waterford 230kV	111
Raywood - 5L541T43 138kV	Base Case	118
Coly - Vignes 230kV	Belle Helene - Licar 230kV	118
Champagne - Plaisance (CLECO) 138kV	Roy S. Nelson - Richard 500kV	123
Hankamer - Crooked Bayou 138kV	Base Case	129
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Ray Braswell 500kV	136
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	140
Bayshore - Hankamer 138kV	Base Case	141

SOCO

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-5516
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-5516
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-5364
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-5364
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-4830
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-4830
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-3152

Limiting Element	Contingency Element	ATC
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-3152
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-3147
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-3147
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2346
Semere - Scott2 138kV	Richard - Wells 500kV	-2141
North Crowley - Scott1 138kV	Richard - Wells 500kV	-1897
Habetz - Richard 138kV	Richard - Wells 500kV	-1825
Richard - Scott1 138kV	Richard - Wells 500kV	-1462
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1234
North Crowley - Richard 138kV	Richard - Wells 500kV	-1081
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-922
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-697
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-631
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-631
Cecelia - Semere 138kV	Richard - Wells 500kV	-615
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-357
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-246
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-195
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-177
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-132
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-39
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	54
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	54
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	55
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	72
Shiloh - Brkscrk 138kV	Base Case	72
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	137
Bayshore - Hankamer 138kV	Base Case	141

SWPA

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-3076
Semere - Scott2 138kV	Richard - Wells 500kV	-2544

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2244
Habetz - Richard 138kV	Richard - Wells 500kV	-2168
Richard - Scott1 138kV	Richard - Wells 500kV	-1729
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1467
North Crowley - Richard 138kV	Richard - Wells 500kV	-1279
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1096
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-828
Cecelia - Semere 138kV	Richard - Wells 500kV	-731
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-245
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-219
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-158
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-49
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-18
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	43
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	52
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Bayshore - Brksckr 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brksckr 138kV	68
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	69
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70

Limiting Element	Contingency Element	ATC
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	82
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	117
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	133
Bayshore - Hankamer 138kV	Base Case	140

TVA

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2606
Semere - Scott2 138kV	Richard - Wells 500kV	-2272
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2010
Habetz - Richard 138kV	Richard - Wells 500kV	-1936
Richard - Scott1 138kV	Richard - Wells 500kV	-1549
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1309
North Crowley - Richard 138kV	Richard - Wells 500kV	-1146
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-978
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-769
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-769

Limiting Element	Contingency Element	ATC
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-739
Cecelia - Semere 138kV	Richard - Wells 500kV	-653
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-397
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-239
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-210
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-202
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-173
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-42
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	0
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	3
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	8
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	10
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	17
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	19
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	21
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	21
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	33
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	35
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	36
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	38
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	48
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	54
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	62
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	63
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	65
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	66
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	70
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	72
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	74

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Craigien - Bayou Fannett 69kV	74
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	81
Bayshore - Hankamer 138kV	Winshire - Craigien 69kV	82
Bayshore - Hankamer 138kV	Craigien - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	108
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	129
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	136
Bayshore - Hankamer 138kV	Base Case	140

3.3.3: DETAILS OF SCENARIO 3

AECI

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-610

AEPW

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-313

AMRN

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-657

CLECO

Limiting Element	Contingency Element	ATC
NONE	NONE	150

EES

Limiting Element	Contingency Element	ATC
NONE	NONE	150

EMDE

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-524

Lafa

Limiting Element	Contingency Element	ATC
Greenwood - Terrebone 115kV	Webre - Wells 500kV	-284

LAGN

Limiting Element	Contingency Element	ATC
NONE	NONE	150

LEPA

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	100
Raceland - Coteau 115kV	Terrebone 230/115kV transformer	143

OKGE

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-451

SMEPA

Limiting Element	Contingency Element	ATC
NONE	NONE	150

SOCO

Limiting Element	Contingency Element	ATC
NONE	NONE	150

SPA

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-558

TVA

Limiting Element	Contingency Element	ATC
NONE	NONE	150

3.3.4: DETAILS OF SCENARIO 4

AECI

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-870
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-546
Richard - Scott1 138kV	Richard - Wells 500kV	-86
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brksckr 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Stowell - Big Hill 138kV	Bayshore - Brksckr 138kV	69
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brksckr 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brksckr 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brksckr 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brksckr 138kV	79

Limiting Element	Contingency Element	ATC
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	120
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	141

AEPW

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-983
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-672
Richard - Scott1 138kV	Richard - Wells 500kV	-97
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	14
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	31
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	60
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brkscrk 138kV	Base Case	65
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	72
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	75
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	141

AMRN

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-848
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-526

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-166
Richard - Scott1 138kV	Richard - Wells 500kV	-84
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	9
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brksckr 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Stowell - Big Hill 138kV	Bayshore - Brksckr 138kV	69
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brksckr 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brksckr 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brksckr 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brksckr 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brksckr 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brksckr 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	116
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	141

CLECO

Limiting Element	Contingency Element	ATC
Richard - Scott1 138kV	Richard - Wells 500kV	-121
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	17
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Winshire - Craigen 69kV	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	41
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	57
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	68
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	69
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71

Limiting Element	Contingency Element	ATC
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	85
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	93
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Stowell - Crooked Bayou 138kV	Base Case	110
Raywood - 5L541T43 138kV	Base Case	119
Hankamer - Crooked Bayou 138kV	Base Case	131
Bayshore - Hankamer 138kV	Base Case	142

EES

Limiting Element	Contingency Element	ATC
Coly 500/230kV transformer	Coly - Willow Glen 500kV	-2355
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-1917
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-1917
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-1828
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-1828
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-1558
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-1513
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-1513
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-1428
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-1114
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-982
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-966

Limiting Element	Contingency Element	ATC
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-879
North Crowley - Scott1 138kV	Richard - Wells 500kV	-848
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-605
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-512
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-478
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-478
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-469
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-469
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-454
A.A.C. - Polsky Carville 230kV	Coly 500/230kV transformer	-397
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-387
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-380
A.A.C. - Polsky Carville 230kV	Bogalusa - Adams Creek 500/230kV transformer	-284
A.A.C. - Polsky Carville 230kV	Bogalusa - Franklin 500kV	-284
A.A.C. - Licar 230kV	Coly 500/230kV transformer	-252
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-245
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-136
Richard - Scott1 138kV	Richard - Wells 500kV	-84
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brksckr 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brksckr 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brksckr 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brksckr 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brksckr 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brksckr 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brksckr 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brksckr 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brksckr 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brksckr 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brksckr 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brksckr 138kV	Stowell - Winshire 69kV	17
Shiloh - Brksckr 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brksckr 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brksckr 138kV	Memorial - Mid County 138kV	21
Shiloh - Brksckr 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brksckr 138kV	Stowell - Winshire 69kV	22
Bayshore - Brksckr 138kV	Winshire - Craigen 69kV	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brksckr 138kV	Winshire - Craigen 69kV	30

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	38
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	59
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	63
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	69
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	72
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	85
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	93
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	110
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	110
Raywood - 5L541T43 138kV	Base Case	119
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	142

EMDE

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-896
North Crowley - Scott1 138kV	Richard - Wells 500kV	-748
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-571
Richard - Scott1 138kV	Richard - Wells 500kV	-89
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7	7

Limiting Element	Contingency Element	ATC
	345 TO SW SHV 7 345	
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49

Limiting Element	Contingency Element	ATC
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	126
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	141

Lafa

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-986
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	-826
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-572
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-554
Semere - Scott2 138kV	Richard - Wells 500kV	-485
North Crowley - Scott1 138kV	Richard - Wells 500kV	-357
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-161
Richard - Scott1 138kV	Richard - Wells 500kV	-35
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
North Crowley - Scott1 138kV	Richard - Scott1 138kV	9
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	17
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	23
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Bayshore - Brkscrk 138kV	Winshire - Craigen 69kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Semere - Scott2 138kV	Richard 500/230kV transformer (CLECO)	31
Semere - Scott2 138kV	Richard (CLECO) - Sellers Road (CLECO) 230kV	31
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	41
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	55
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	57
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	69

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Habetz - Richard 138kV	Richard - Wells 500kV	79
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	84
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	85
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	86
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Shiloh - 5L541T43 138kV	Base Case	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Semere - Scott2 138kV	Sellers Road (CLECO) - Segura (CLECO) 230kV	104
Semere - Scott2 138kV	Segura (CLECO) 230/138kV transformer'	106
Semere - Scott2 138kV	Habetz - Richard 138kV	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Stowell - Crooked Bayou 138kV	Base Case	110
Raywood - 5L541T43 138kV	Base Case	119
Hankamer - Crooked Bayou 138kV	Base Case	131
Bayshore - Hankamer 138kV	Base Case	142

LAGN

Limiting Element	Contingency Element	ATC
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-1237
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-797
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-142

Limiting Element	Contingency Element	ATC
Richard - Scott1 138kV	Richard - Wells 500kV	-117
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	17
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Winshire - Craigen 69kV	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44

Limiting Element	Contingency Element	ATC
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	55
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	57
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	69
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	85
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88

Limiting Element	Contingency Element	ATC
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	93
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Stowell - Crooked Bayou 138kV	Base Case	110
Raywood - 5L541T43 138kV	Base Case	119
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	127
Hankamer - Crooked Bayou 138kV	Base Case	131
Bayshore - Hankamer 138kV	Base Case	142

LEPA

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-1345
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	-1126
Champagne - Plaisance (CLECO) 138kV	Vatican - Scott1 138kV	-871
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-785
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-780
Coly 500/230kV transformer	Coly - Willow Glen 500kV	-757
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-723
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-723
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-717
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-687
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-687
Semere - Scott2 138kV	Richard - Wells 500kV	-610
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-562
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-562
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-562
North Crowley - Scott1 138kV	Richard - Wells 500kV	-523
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Polsky Carville 230kV	-518
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Licar 230kV	-497
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-493
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-477
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-430
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	-426
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-322
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-303
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-268
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-253
A.A.C. - Polsky Carville 230kV	Coly 500/230kV transformer	-214
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-210

Limiting Element	Contingency Element	ATC
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Woodstock 230kV	-200
Coly - Vignes 230kV - Supplemental Upgrade	Vulchlor - Woodstock 230kV	-199
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-168
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-168
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-166
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-166
A.A.C. - Polsky Carville 230kV	Bogalusa - Adams Creek 500/230kV transformer	-142
A.A.C. - Polsky Carville 230kV	Bogalusa - Franklin 500kV	-142
A.A.C. - Licar 230kV	Coly 500/230kV transformer	-135
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-132
Hopkins - Moril 138kV	Hopkins - Segura 138kV (CLECO)	-95
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-89
Moril - Duboin 138kV	Hopkins - Morbhan 138kV (CLECO)	-80
A.A.C. - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-64
A.A.C. - Licar 230kV	Bogalusa - Franklin 500kV	-64
Moril - Duboin 138kV	Hopkins - Patout 138kV (CLECO)	-53
Richard - Scott1 138kV	Richard - Wells 500kV	-52
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Moril - Duboin 138kV	Patout - Teche 138kV (CLECO)	-7
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	17
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Winshire - Craigen 69kV	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
North Crowley - Scott1 138kV	Richard - Scott1 138kV	25
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	41
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Moril - Duboin 138kV	Webre - Wells 500kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	57
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	59
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	69

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	82
Webre - Bayou Laboutte 500kV ckt1	Coly - McKnight 500kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	85
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	93
Shiloh - 5L541T43 138kV	Base Case	93
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	94
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
A.A.C. - Polsky Carville 230kV	Coly - Hammond 230kV	97
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Stowell - Crooked Bayou 138kV	Base Case	110
Habetz - Richard 138kV	Richard - Wells 500kV	112
Webre - Bayou Laboutte 500kV ckt1	Coly - McKnight 500kV	115
Raywood - 5L541T43 138kV	Base Case	119
Coly 500/230kV transformer	Bogalusa - Adams Creek 500/230kV transformer	130
Coly 500/230kV transformer	Bogalusa - Franklin 500kV	130
Hankamer - Crooked Bayou 138kV	Base Case	131
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	139
Belle Helene - Licar 230kV	Coly 500/230kV transformer	140
Bayshore - Hankamer 138kV	Base Case	142
Moril - Segura (CLECO) 138kV	Hopkins - Segura 138kV (CLECO)	146

OKGE

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-923
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-600
Richard - Scott1 138kV	Richard - Wells 500kV	-91
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	6
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	69
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	73
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82

Limiting Element	Contingency Element	ATC
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Hankamer - Crooked Bayou 138kV	Base Case	130
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	133
Bayshore - Hankamer 138kV	Base Case	141

SMEPA

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-2062
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-2062
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-1960
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-1960
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-1604
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-1604
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-1571
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-1434
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-1123
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-986
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-954
Rex Brown W - Rex Brown C 115kV ckt 1	South Jackson 230/115kV transformer 1	-758
Rex Brown W - Rex Brown C 115kV ckt 1	Ray Braswell 500/115kV transformer 1	-745
North Crowley - Scott1 138kV	Richard - Wells 500kV	-673
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-561
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-506
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-478
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-478
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-475
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-475
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-419
A.A.C. - Polsky Carville 230kV	Coly 500/230kV transformer	-398
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-384
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-368
A.A.C. - Licar 230kV	Coly 500/230kV transformer	-251

Limiting Element	Contingency Element	ATC
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-243
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-242
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Adams Creek 500/230kV transformer	-233
Florence - South Jackson 115kV - Supplemental Upgrade	Bogalusa - Franklin 500kV	-233
A.A.C. - Polsky Carville 230kV	Bogalusa - Adams Creek 500/230kV transformer	-207
A.A.C. - Polsky Carville 230kV	Bogalusa - Franklin 500kV	-207
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-107
A.A.C. - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-93
A.A.C. - Licar 230kV	Bogalusa - Franklin 500kV	-93
Richard - Scott1 138kV	Richard - Wells 500kV	-67
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	-62
Florence - South Jackson 115kV - Supplemental Upgrade	South Jackson - Pop Spring 115kV	-41
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-34
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Pop Spring 115kV	-14
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Silver Creek 115kV	-8
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Mcknight 500kV	-1
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Ray Braswell 500kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	17
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Winshire - Craigen 69kV	24

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	47
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Florence - South Jackson 115kV - Supplemental Upgrade	Brookhaven - Mallalieu (MEPA) 115kV	75
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Florence - South Jackson 115kV - Supplemental Upgrade	Mallalieu (MEPA) - Norfield 115kV	83
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	85
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	93
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Rex Brown W - Rex Brown C 115kV ckt 1	Klean - Jackson Northeast 115kV	109
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	119
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	142
A.A.C. - Polsky Carville 230kV	Coly - Hammond 230kV	145

SOCO

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-757
North Crowley - Scott1 138kV	Richard - Wells 500kV	-640

Limiting Element	Contingency Element	ATC
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-475
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-447
Coughlin - Plaisance 138kV (CLECO)	Webre - Wells 500kV	-425
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-132
Richard - Scott1 138kV	Richard - Wells 500kV	-75
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Winshire - Craigen 69kV	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	99
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	119
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	142

SPA

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-896
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-570
Richard - Scott1 138kV	Richard - Wells 500kV	-89
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	8
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	118
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	126
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	141

TVA

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-802
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-730
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-486
Coughlin - Plaisance 138kV (CLECO)	Webre - Wells 500kV	-473

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-147
Richard - Scott1 138kV	Richard - Wells 500kV	-79
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-12
Bayshore - Brkscrk 138kV	Stowell - Big Hill 138kV	1
Shiloh - Brkscrk 138kV	Stowell - Big Hill 138kV	4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	5
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	7
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	8
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	10
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	11
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	11
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	12
Shiloh - 5L541T43 138kV	Stowell - Big Hill 138kV	14
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	14
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	15
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	16
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	17
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	18
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	20
Stowell - Crooked Bayou 138kV	Stowell - Big Hill 138kV	20
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	20
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	21
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	22
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	22
Bayshore - Brkscrk 138kV	Winshire - Craigen 69kV	24
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	24
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	26
Raywood - 5L541T43 138kV	Stowell - Big Hill 138kV	27
Shiloh - Brkscrk 138kV	Winshire - Craigen 69kV	30
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Hankamer - Crooked Bayou 138kV	Stowell - Big Hill 138kV	30
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	31
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	32
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	34
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	34
Bayshore - Hankamer 138kV	Stowell - Big Hill 138kV	36
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	37
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	37
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	37
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	39
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	40
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	44

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	44
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	46
Shiloh - 5L541T43 138kV	Winshire - Craigen 69kV	46
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	47
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	49
Stowell - Big Hill 138kV	Stowell - Crooked Bayou 138kV	49
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Stowell - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Winshire - Craigen 69kV	56
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Big Hill 138kV	Bayshore - Hankamer 138kV	58
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	61
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	62
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	62
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	66
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	67
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	67
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	68
Stowell - Big Hill 138kV	Bayshore - Brkscrk 138kV	69
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	71
Stowell - Big Hill 138kV	Shiloh - Brkscrk 138kV	71
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	71
Shiloh - Brkscrk 138kV	Base Case	73
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	74
Hankamer - Crooked Bayou 138kV	Craigen - Bayou Fannett 69kV	75
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	76
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	76
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	76
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	77
Stowell - Big Hill 138kV	Shiloh - 5L541T43 138kV	78
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	79
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	80
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	81
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	82
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	83
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	84
Bayshore - Hankamer 138kV	Craigen - Bayou Fannett 69kV	84
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	86

Limiting Element	Contingency Element	ATC
Stowell - Big Hill 138kV	Raywood - 5L541T43 138kV	88
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	90
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	91
Shiloh - 5L541T43 138kV	Base Case	92
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	93
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	96
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	100
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	101
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	107
Stowell - Crooked Bayou 138kV	Base Case	109
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	109
Raywood - 5L541T43 138kV	Base Case	119
Hankamer - Crooked Bayou 138kV	Base Case	130
Bayshore - Hankamer 138kV	Base Case	142

APPENDIX A: Approved Projects and Transactions in Study Mode

Year	Approved Future Projects
2010 - 2012 EAI	10CP 2009S EAI Blythville POD - AECC Rev 1.idv 10CP 2009S EAI Conway West - Donaghey 161 kV Line Reconductor.idv 10CP 2009S EAI Gillette 115 kV Substation.idv 10CP 2009S EAI Hamlet 161 kV Substation Rev 1.idv 10CP 2009S EAI Sarepta Project Rev 0.idv 10CP 2009W EAI Harrison East to Everton Road 161 kV Line Rev 1.idv 10CP 2010S EAI AECC Avilla POD Rev 2.idv 10CP 2010S EAI Coffeerville POD - AECC Rev 0.idv 10CP 2010S EAI Melbourn - Sage 161 kV Line Upgrade Line Rev 0.idv 10CP 2010S EAI Parkin to Twist 161 kV Line Trap Rev 0.idv 10CP 2010S EAI Transmission Service (OG&E) Rev 0.idv 10CP 2010S EAI Warren East 115 kV Substation Install Capacitor Bank Rev 1.idv 10CP 2010Z EAI Beebe 115 kV Substation - Install Capacitor Bank Rev 0.idv 10CP 2010Z EAI Donaghey - Conway South 161 kV Rev 1.idv 10CP 2010Z EAI SMEPA (Plum Point) Rev 1.idv 10CP 2011S EAI Osage Creek-Grandview New Line Rev 2.idv 10CP 2012S EAI Albright (HS Hamilton) Substation 2014 Load.idv 10CP 2012S EAI Cofer Road (Crawford) Substation 2014 Load Rev 0.idv 10CP 2011W EAI Transmission Service (Aquila) Rev 0.idv 10CP 2012S EAI Westar Transmission Service Rev 0.idv rovements_PhaseII.idv
2010 - 2014 EGSL	10CP 2009S EGSL Acadia 138 kV Substation capbank.idv 10CP 2010Z EGSL Addis to Cajun 230kV line upgrade.idv 10CP 2011S EGSL Acadiana Area Improvement Project Phase 1 Rev 1.idv 10CP 2011S EGSL Alchem - Monochem 138 kV line upgrade.idv 10CP 2011S EGSL Construct New Youngsville 138 kV Sub (run AAIP 1 first).idv 10CP 2012S EGSL Acadiana Area Improvement Project Phase 2 (run AAIP 1 first).idv 10CP 2012S EGSL Construct new Nelson to Moss Bluff 230 kV line.idv 10CP 2012S EGSL Tejac to Marydale Upgrade 69 kV line.idv 10CP 2012S EGSL ELL Loblolly-Hammond Build 230kV Line.idv 10CP 2014S Gulf Oxygen Load Correction.idv
2010 - 2013 ELL	10CP 2009W ELLN Delhi 115 kV Substation - Add Cap Bank.idv 10CP 2010W ELLN Delhi 115 kV Substation - Add series reactor.idv 10CP 2010Z ELLS Bogalusa to Adams Creek 230 kV No 2.idv 10CP 2010Z ELLS Snakefarm to Kenner 115 kV line upgrade.idv 10CP 2011S ELLN Sarepta Project.idv 10CP 2012S ELLS Bayou LaBoutte Construct new 500-230 kV Substation.idv 10CP 2012 ELLN Ouachita Project Set 2 Run Second.idv 10CP 2013S ELLN Ouachita Projects Set 1 Run First.idv
2010 - 2012 EMI	10CP 2009W EMI Grenada-Winona-Greenwood Area Improvement Phase I.idv 10CP 2010S EMI Grand Gulf Uprate Project.idv 10CP 2010S EMI Indianola-Greenwood 115 kV Line Upgrade.idv 10CP 2010S EMI Magee 115 kV substation - Replace switches.idv 10CP 2010Z EMI TVA Affected System Upgrades.idv 10CP 2011S EMI Church Road Substation (2014 load).idv 10CP 2011S EMI Sunnybrook-only-2011.idv 10CP 2011S EMI Waterways - Vicksburg East 115 kV Line Upgrade.idv 10CP 2011Z EMI Florence - Florence SS - Star 115 kV Line Upgrade.idv 10CP 2011Z EMI Grand Gulf Uprate add vars.idv 10CP 2012S EMI Grenada-Winona-Greenwood Area Improvement Phase II.idv 10CP 2012S EMI Ridgeland-Madison Reliability Improvement (Sunnybrook-2014).idv

Year	Approved Future Projects
2010 - 2012 ETI	10CP 2009F ETI Gulfway 230kV Substation.idv 10CP 2009S ETI Beaumont 69 kV Improvement Plan Option 2.idv 10CP 2009S ETI Newton Bulk Replace Re-tap CT to Increase Rating on Holly Springs Line.idv 10CP 2009S ETI Porter-Tamina Replace Breaker & Switches.idv 10CP 2009W ETI Fawil Upgrade 138-69 kV Auto.idv 10CP 2010S ETI Temco and Shepherd 138kV Substations.idv 10CP 2010S ETI Western Region Reliability Improvement Plan Phase 3 Interim (Part 1).idv 10CP 2010W ETI Western Region Reliability Improvement Plan Phase 3 Interim (Part 3).idv 10CP 2011S ETI Grand Gulf Uprate Project.idv 10CP 2011S ETI Western Region Reliability Improvement Plan Phase 3 Interim (Part 2).idv 10CP 2011W ETI Tamina to Cedar Hill 138 kV line.idv

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

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

OASIS #	PSE	MW	Begin	End
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