



***Feasibility Study
PID 252
150MW Plant***

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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	EC	BR

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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 the Stowell and Big Hill substations located at PID 252 substation. 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 the plant is connected to Entergy's transmission system. If not, transmission improvements will be identified.

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

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

It was determined that there are no Entergy Transmission System upgrades required for this ERIS request. The estimated cost of interconnection facilities is \$7.5 Million; which covers the cost of the construction of a new 138kV, 3-element ring bus substation at the Customer's point of interconnection.

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-252 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-252 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-252 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 252 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 252 plant **with and without priors**. Priors included are: 221, 226, 231, 238, 240, 246, 247, 250, and 251.

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 PID 252 generation interconnection point was modeled on the existing Stowell-Big Hill 138kV transmission line. These associated facilities were then modeled in the case to build a revised case for the load flow analysis. Transfers were simulated between thirteen (13) control areas and Entergy using the requesting generator as the source and adjacent control area as sink.

This study considered the following four scenarios:

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

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

3.2 Load Flow Analysis

3.2.1 Load Flow Analysis:

The load flow analysis was performed as a DC analysis using PSS/E and 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

It was determined there are no Entergy Transmission System upgrades required for this ERIS request. 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 PID 252 – 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	-612	-2932	-603	-867
AEPW	American Electric Power West	2014	-304	-3605	-311	-980
AMRN	Ameren Transmission	2014	-660	-2817	-649	-845
CLEC	CLECO	2014	-228	-2774	142	-120
EES	Entergy	2014	-207	-4240	141	-2367
EMDE	Empire District Electric Co	2014	-521	-3071	-519	-893
LAFA	Lafayette Utilities System	2014	-892	-1067	-286	-984
LAGN	Louisiana Generating, LLC	2014	-281	-6249	142	-1230

LEPA	Louisiana Energy & Power Authority	2014	-262	-3055	100	-1340
OKGE	Oklahoma Gas & Electric Company	2014	-446	-3226	-447	-920
SMEPA	South Mississippi Electric Power Assoc.	2014	*	-5183	141	-2060
SOCO	Southern Company	2014	-217	-5507	141	-755
SPA	Southwest Power Administration	2014	-557	-3068	-551	-893
TVA	Tennessee Valley Authority	2014	-211	-2601	141	-800

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

4. Facilities at the Point of Interconnection

The Interconnection Customer's designated Point of Interconnection (POI) is a new 138kV substation that will be constructed and cut-in on Entergy's Stowell-Big Hill 138kV transmission line. The interconnection customer is responsible for constructing all facilities needed to deliver generation to the POI. The estimated cost for a 138kV, 3-element ring bus configuration substation is \$7.5 Million. This cost is based on parametric estimating techniques for a "typical" site. Cost may significantly change based on specific project parameters that are not known at this time. Costs specific to this interconnection will be developed during the Facilities Study.

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

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Big Hill - PID 252 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bonin - Cecelia 138kV	17,250,000									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
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					
'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					

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
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	
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					
Stowell - PID 252 138kV	10,000,000	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	
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 - 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	X		
Belle Helene - Woodstock 230kV	1,750,000					X				X		X	X		
Big Hill - PID 252 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Bogalusa - Adams Creek 230kV ckt 1	375,000,000									X					
Bogalusa - Adams Creek 230kV ckt 2	375,000,000									X					
Bogalusa - Ramsay 230kV	35,500,000									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
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

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	Lagn	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
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	v		2MW
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					
Jackson Miami - Jackson Monument Street 115kV	2,856,000											X			
Jackson Miami - Rex Brown 115kV	Included in 2011 ICT Base Plan											X			
Jaguar - Tap Point Esso 230kV	3,500,000					X				X					
Judice - Meaux 138kV	12,500,000									X					
Judice - Scott1 138kV	10,000,000									X					

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
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	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			

Limiting Elements	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	Lagn	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
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							
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 - Brksckr 138kV	3,750,000	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
Stowell - PID 252 138kV	10,000,000	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
Big Hill - PID 252 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Greenwood - Terrebone 115kV	12,500,000							X							
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	23,750,000	X	X	X			X				X			X	
Raceland - Coteau 115kV	15,000,000									X					
Stowell - PID 252 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	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					9				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			
Big Hill - PID 252 138kV	10,000,000	X	X	X	X	X	X	X	X	X	X	X	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			1		X		X	X	X		X	X		X

Limiting Element	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
Coly - Vignes 230kV - Supplemental Upgrade	Committed to by others									X					
Coly 500/230kV transformer	21,000,000					X				X					
Florence - South Jackson 115kV - Supplemental Upgrade	Committed to by others											X			
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
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	21,250,000	X	X	X		X	X	X		X	X	X	X	X	X

Limiting Element	Est. Cost	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SPA	TVA
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					
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 - Crooked Bayou 138kV	15,000,000	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stowell - PID 252 138kV	10,000,000	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	-612
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-198
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-135
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	26
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	130
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	133
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	133
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	149

AEPW

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-304
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-161
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-110
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	21
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	111
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	122
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	122
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	130
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	140
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

AMRN

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-660
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-202
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-137
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	27
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	130
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	134
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	134
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

CLECO

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-228
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-155
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	30
North Crowley - Scott1 138kV	Wells 500/230kV transformer	100
Habetz - Richard 138kV	Wells 500/230kV transformer	103
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	131
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	142
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	142
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

EES

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-207
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-142
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	28
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	131
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
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	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	-521
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-190
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-130
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV 3 Winding Transformer	-108
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	25
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	130
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
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	150

LAFA

Limiting Element	Contingency Element	ATC
Greenwood - Terrebone 115kV	Webre - Wells 500kV	-892
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-283
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-193
Greenwood - Humphrey 115kV	Webre - Wells 500kV	-164
Semere - Scott2 138kV	Habetz - Richard 138kV	-164
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
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	132
Richard - Scott1 138kV	Habetz - Richard 138kV	140
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

LAGN

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-281
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-192
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	37
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	131
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

LEPA

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-262
Semere - Scott2 138kV	Wells 500/230kV transformer	-233
Bonin - Cecelia 138kV	Colonial Academy - Richard 138kV	-221
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-179
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
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	131
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	149
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	149

OKGE

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-446
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-182
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-124
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	24
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	129
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	129
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	130
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	131
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
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	148

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	*

Limiting Element	Contingency Element	ATC
Ray Braswell 500/230kV transformer ckt2 - Supplemental Upgrade	Vicksburg - Waterways 115kV	*
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-232
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-158
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
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	131
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	142
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	142
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

SOCO

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-217
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-148
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	29
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	131
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	138
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	138
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

SPA

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-557
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-193
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-132
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV 3 Winding Transformer	-55
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	26
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	130
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	132
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	132
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	143
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

TVA

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-211
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-144
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	28
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	131
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	137
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	137
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

3.3.2: DETAILS OF SCENARIO 2

AECI

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2932
Semere - Scott2 138kV	Richard - Wells 500kV	-2463
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2174
Habetz - Richard 138kV	Richard - Wells 500kV	-2099
Richard - Scott1 138kV	Richard - Wells 500kV	-1675
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1420
North Crowley - Richard 138kV	Richard - Wells 500kV	-1239
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1061
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-801
Cecelia - Semere 138kV	Richard - Wells 500kV	-708
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-234
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-231
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-167
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-47
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-20
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	45
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	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
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	71
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	72
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Shiloh - Brkscrk 138kV	Base Case	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	99
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	126
Hankamer - Crooked Bayou 138kV	Base Case	139
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	142
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

AEPW

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-3605
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2450

Limiting Element	Contingency Element	ATC
Habetz - Richard 138kV	Richard - Wells 500kV	-2378
Richard - Scott1 138kV	Richard - Wells 500kV	-1888
North Crowley - Richard 138kV	Richard - Wells 500kV	-1396
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-287
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-188
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-136
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-59
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - 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	-10
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	33
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	49
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	57
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	63
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	63
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	66
Bayshore - Brkscrk 138kV	Base Case	66
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	71
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Shiloh - Brkscrk 138kV	Base Case	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	81
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	90
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	96
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	99
Stowell - Crooked Bayou 138kV	Base Case	114
Raywood - 5L541T43 138kV	Base Case	126
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	132
Toledo - VP Tap 138kV	Colfax - Montgomery 230kV	138
Hankamer - Crooked Bayou 138kV	Base Case	138
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

AMRN

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2817
Semere - Scott2 138kV	Richard - Wells 500kV	-2399
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2120
Habetz - Richard 138kV	Richard - Wells 500kV	-2045
Richard - Scott1 138kV	Richard - Wells 500kV	-1633
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1383
North Crowley - Richard 138kV	Richard - Wells 500kV	-1208
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1033
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-780
Cecelia - Semere 138kV	Richard - Wells 500kV	-689
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-445
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-235

Limiting Element	Contingency Element	ATC
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	-45
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-21
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brksckr 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Memorial - Mid County 138kV	Stowell - 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
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brksckr 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brksckr 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brksckr 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brksckr 138kV	64
Bayshore - Brksckr 138kV	Base Case	66
Bayou Farm - Memorial 138kV	Shiloh - Brksckr 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	71
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	72
Memorial - Mid County 138kV	Bayshore - Brksckr 138kV	72
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	73

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Shiloh - Brkscrk 138kV	Base Case	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	99
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	126
Hankamer - Crooked Bayou 138kV	Base Case	139
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	143
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

CLECO

Limiting Element	Contingency Element	ATC
Habetz - Richard 138kV	Richard - Wells 500kV	-2774
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2713
Richard - Scott1 138kV	Richard - Wells 500kV	-2091
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-1677
North Crowley - Richard 138kV	Richard - Wells 500kV	-1546
North Crowley - Scott1 138kV	Wells 500/230kV transformer	-809
Habetz - Richard 138kV	Wells 500/230kV transformer	-759
Flander - Habetz 138kV (CLECO/LAFA)	Richard - Wells 500kV	-554
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-266
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-192
Richard - Scott1 138kV	Wells 500/230kV transformer	-121
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-28
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-20
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-6
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3

Limiting Element	Contingency Element	ATC
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	57
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	57
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	75
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	77
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82

Limiting Element	Contingency Element	ATC
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	84
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	140
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

EES

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-4240
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-4126
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-3717
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-3699
Coly - Vignes 230kV - Supplemental Upgrade	Waterford - Willow Glen 500kV	-3610
Coly - Vignes 230kV - Supplemental Upgrade	Waterford 500/230 transformer kV	-3610
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-3583
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-3445
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-3445
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-3361
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-3361
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-3165
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-3061
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-3061
Vulchlor - Woodstock 230kV	Coly - Vignes 230kV	-2439
Semere - Scott2 138kV	Richard - Wells 500kV	-2414
Belle Helene - Woodstock 230kV	Coly - Vignes 230kV	-2350
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	-2319
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-2131
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-2131
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2116
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-2076
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-2076
Habetz - Richard 138kV	Richard - Wells 500kV	-2064
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	-1997
Vulchlor - Woodstock 230kV	Airline - Sorrento 230kV	-1833
Belle Helene - Woodstock 230kV	Airline - Sorrento 230kV	-1767
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-1743

Limiting Element	Contingency Element	ATC
Willow Glen 500/230kV Transformer	Waterford - Willow Glen 500kV	-1672
Willow Glen 500/230kV Transformer	Waterford 500/230 transformer kV	-1672
Coly - Vignes 230kV - Supplemental Upgrade	Wintz - Willow Glen 230kV	-1670
Richard - Scott1 138kV	Richard - Wells 500kV	-1630
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-1598
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-1448
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1315
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	-1276
North Crowley - Richard 138kV	Richard - Wells 500kV	-1204
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	-1076
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-992
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	-754
Cecelia - Semere 138kV	Richard - Wells 500kV	-700
A.A.C. - Polsky Carville 230kV	Addis - Wilbert 138kV	-570
Willow Glen 500/230kV Transformer	Addis - Big Cajun 1 230kV	-422
A.A.C. - Licar 230kV	Addis - Wilbert 138kV	-422
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-367
Willow Glen - Willow Glen 2 500/138kV transformer 1	Willow Glen 500/230kV Transformer	-333
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-245
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-241
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-226
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-175
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-43
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-28
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-20
Willow Glen 500/230kV Transformer	Fancy Point 500/230kV transformer 1	-8
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Shiloh - 5L541T43 138kV	China 230/138kV transformer 1	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 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

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	71
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	71
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Shiloh - Brkscrk 138kV	Base Case	75
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	78
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	84
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Belle Helene - Licar 230kV	Addis - Wilbert 138kV	109
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	139

Limiting Element	Contingency Element	ATC
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	140
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Willow Glen 500/230kV Transformer	Big Cajun 2 - Fancy Point 500kV	145
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

EMDE

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-3071
Semere - Scott2 138kV	Richard - Wells 500kV	-2538
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2238
Habetz - Richard 138kV	Richard - Wells 500kV	-2163
Richard - Scott1 138kV	Richard - Wells 500kV	-1725
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1463
North Crowley - Richard 138kV	Richard - Wells 500kV	-1276
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1093
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-826
Cecelia - Semere 138kV	Richard - Wells 500kV	-729
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-245
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-221
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-160
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-49
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - 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	-17
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 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
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	71
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	71
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Shiloh - Brkscrk 138kV	Base Case	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	90
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	99
Stowell - Crooked Bayou 138kV	Base Case	114
Raywood - 5L541T43 138kV	Base Case	126
Hankamer - Crooked Bayou 138kV	Base Case	139
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

Lafa

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-1067
Semere - Scott2 138kV	Richard - Wells 500kV	-979
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	-926
North Crowley - Scott1 138kV	Richard - Wells 500kV	-879
Habetz - Richard 138kV	Richard - Wells 500kV	-809
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-703
Richard - Scott1 138kV	Richard - Wells 500kV	-677
Semere - Scott2 138kV	Bonin - Cecelia 138kV	-573
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-564
North Crowley - Richard 138kV	Richard - Wells 500kV	-501
North Crowley - Scott1 138kV	Richard - Scott1 138kV	-482
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-422
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-403
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) 230kV	-351
Semere - Scott2 138kV	Webre - Wells 500kV	-351
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-330
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-319
Cecelia - Semere 138kV	Richard - Wells 500kV	-281
Habetz - Richard 138kV	Acadian - Bonin 230kV (Lafa)	-266
North Crowley - Scott1 138kV	Webre - Wells 500kV	-240
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-238
North Crowley - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	-237
North Crowley - Scott1 138kV	Colonial Academy - Richard 138kV	-224
Richard - Scott1 138kV	North Crowley - Richard 138kV	-222
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	-221
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	-166
Habetz - Richard 138kV	Vil Plat - West Fork 230kV	-142
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 - Brksckr 138kV	China Bulk - Sabine 230kV	-28
Shiloh - Brksckr 138kV	China Bulk - Sabine 230kV	-20
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-7
Bayshore - Brksckr 138kV	Big Hill - PID 252 138kV	-7

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Semere - Scott2 138kV	Base Case	27
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Richard - Scott1 138kV	Habetz - Richard 138kV	33
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Richard - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Richard - Scott1 138kV	Colonial Academy - Richard 138kV	39

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Colonial Academy - Richard 138kV	Wells 500/230kV transformer	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	62
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	62
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	65
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Champagne - Plaisance (CLECO) 138kV	Roy S. Nelson - Richard 500kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	75
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	78

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Champagne - Plaisance (CLECO) 138kV	Riverbend - Fancy Point 230kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	83
Scott1 - Bonin 138kV	Richard - Wells 500kV	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	84
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Colonial Academy - Richard 138kV	Habetz - Richard 138kV	112
Stowell - Crooked Bayou 138kV	Base Case	115
Colonial Academy - Richard 138kV	Richard - Scott1 138kV	116
Scanlan - Scott2 138kV	Richard - Wells 500kV	123
Raywood - 5L541T43 138kV	Base Case	127
North Crowley - Richard 138kV	Wells 500/230kV transformer	128
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Colonial Academy - Richard 138kV	North Crowley - Richard 138kV	149
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

LAGN

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-6249
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2878
Habetz - Richard 138kV	Richard - Wells 500kV	-2736
Richard - Scott1 138kV	Richard - Wells 500kV	-2218
North Crowley - Richard 138kV	Richard - Wells 500kV	-1640
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-381
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-331
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-239
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-224
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-49
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	-28
Shiloh - Brksckr 138kV	China Bulk - Sabine 230kV	-20
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-7
Bayshore - Brksckr 138kV	Big Hill - PID 252 138kV	-7

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42

Limiting Element	Contingency Element	ATC
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Big Hill - PID 252 138kV	Bayshore - Brksckr 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brksckr 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brksckr 138kV	60
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	61
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	61
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brksckr 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brksckr 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brksckr 138kV	Base Case	67
Bayou Farm - Memorial 138kV	Shiloh - Brksckr 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brksckr 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brksckr 138kV	75
Shiloh - Brksckr 138kV	Base Case	75
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82

Limiting Element	Contingency Element	ATC
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	84
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

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	-2962
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Licar 230kV	-2941
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	-2867
Addis - Big Cajun 1 230kV	Enjay - Jaguar 230kV	-2789
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Woodstock 230kV	-2634
Coly - Vignes 230kV - Supplemental Upgrade	Vulchlor - Woodstock 230kV	-2633
Addis - Big Cajun 1 230kV	Jaguar - Tap Point Esso 230kV	-2475
Addis - Big Cajun 1 230kV	Coly - McKnight 500kV	-2383
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-2271
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-2219
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-2200
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-2068
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	-1982
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-1951
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-1911
Coly - Vignes 230kV - Supplemental Upgrade	Conway - Vulchlor 230kV	-1801
Willow Glen 500/230kV Transformer	Coly 500/230kV transformer	-1676
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	-1669
Belle Helene - Licar 230kV	Airline - Sorrento 230kV	-1661
Addis - Big Cajun 1 230kV	Willow Glen 500/230kV Transformer	-1629

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-1586
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	-1540
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	-1377
North Crowley - Scott1 138kV	Richard - Scott1 138kV	-1360
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	-1254
North Crowley - Scott1 138kV	Richard - Wells 500kV	-1249
Belle Helene - Woodstock 230kV	Coly - Vignes 230kV	-1167
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-1166
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-1166
Vulchlor - Woodstock 230kV	Coly - Vignes 230kV	-1165
Habetz - Richard 138kV	Richard - Wells 500kV	-1140
A.A.C. - Polsky Carville 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1130
A.A.C. - Polsky Carville 230kV	Bogalusa - Franklin 500kV	-1130
Willow Glen 500/230kV Transformer	Willow Glen - Willow Glen 2 500/138kV transformer 1	-1124
Airline - Sorrento 230kV	A.A.C. - Polsky Carville 230kV	-1112
Airline - Sorrento 230kV	A.A.C. - Licar 230kV	-1091
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-1045
A.A.C. - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1044
A.A.C. - Licar 230kV	Bogalusa - Franklin 500kV	-1044
Airline - Sorrento 230kV	Belle Helene - Licar 230kV	-1017
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-988
Richard - Scott1 138kV	Richard - Wells 500kV	-962
Semere - Scott2 138kV	Wells 500/230kV transformer	-950
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-901
Habetz - Richard 138kV	Acadian - Bonin 230kV (LAFA)	-878
Belle Helene - Woodstock 230kV	Airline - Sorrento 230kV	-878
Vulchlor - Woodstock 230kV	Airline - Sorrento 230kV	-876
Willow Glen 500/230kV Transformer	Waterford - Willow Glen 500kV	-873
Willow Glen 500/230kV Transformer	Waterford 500/230 transformer kV	-873
Semere - Scott2 138kV	Habetz - Richard 138kV	-861
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	-772
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-769
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

Limiting Element	Contingency Element	ATC
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	-733
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-723
North Crowley - Richard 138kV	Richard - Wells 500kV	-712
Bogalusa - Adams Creek 230kV ckt 1	Bogalusa - Adams Creek 230kV ckt 2	-708
Bogalusa - Adams Creek 230kV ckt 2	Bogalusa - Adams Creek 230kV ckt 1	-703
Semere - Scott2 138kV	Flander - Habetz 138kV (CLECO/LAFA)	-701
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	-625
North Crowley - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	-623
Semere - Scott2 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	-618
North Crowley - Scott1 138kV	Colonial Academy - Richard 138kV	-614
North Crowley - Scott1 138kV	Habetz - Richard 138kV	-611
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	-596
Habetz - Richard 138kV	Flander - Acadian 230kV (LAFA)	-591
North Crowley - Scott1 138kV	Acadia GSU - Colonial Academy 138kV	-565
Bonin - Cecelia 138kV	Acadia GSU - Colonial Academy 138kV	-563
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-540
Addis - Big Cajun 1 230kV	Waterford - Willow Glen 500kV	-511
Addis - Big Cajun 1 230kV	Waterford 500/230 transformer kV	-511
Richard - Scott1 138kV	North Crowley - Scott1 138kV	-493
Judice - Scott1 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	-477
Addis - Big Cajun 1 230kV	Coly - Willow Glen 500kV	-475
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	-449
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	-364
Cecelia - Semere 138kV	Richard - Wells 500kV	-360
Airline - Sorrento 230kV	Waterford - Willow Glen 500kV	-350
Airline - Sorrento 230kV	Waterford 500/230 transformer kV	-350
A.A.C. - Polsky Carville 230kV	Monochem1 - Southwood 138kV	-348
A.A.C. - Polsky Carville 230kV	Addis - Wilbert 138kV	-326
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-305
Bogalusa - Ramsay 230kV	Bogalusa - Talisheek 230kV	-305
Willow Glen - Willow Glen 2 500/138kV transformer 1	Willow Glen 500/230kV Transformer	-300
A.A.C. - Licar 230kV	Monochem1 - Southwood 138kV	-261

Limiting Element	Contingency Element	ATC
A.A.C. - Licar 230kV	Addis - Wilbert 138kV	-240
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-233
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	-229
Coly - Vignes 230kV - Supplemental Upgrade	Base Case	-224
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-221
North Crowley - Richard 138kV	Richard - Scott1 138kV	-193
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-178
Judice - Scott1 138kV	Flander - Segura 138kV (CLECO)	-166
Champagne - Plaisance (CLECO) 138kV	Colfax - Montgomery 230kV	-126
Richard - Scott1 138kV	Wells 500/230kV transformer	-122
Moril - Segura (CLECO) 138kV	Hopkins - Segura 138kV (CLECO)	-88
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-86
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
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-28
Judice - Scott1 138kV	Richard - Wells 500kV	-22
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-20
Hopkins - Moril 138kV	Hopkins - Segura 138kV (CLECO)	-13
Coly - Vignes 230kV	A.A.C. - Licar 230kV	-7
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-6
Willow Glen 500/230kV Transformer	Fancy Point 500/230kV transformer 1	-6
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Moril - Duboin 138kV	Hopkins - Morbhan 138kV (CLECO)	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Judice - Scott1 138kV	Maurice - Scott 69kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Moril - Duboin 138kV	Hopkins - Patout 138kV (CLECO)	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Belle Helene - Licar 230kV	Donaldsonville - Evergreen 230kV	33
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Airline - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	34
Airline - Sorrento 230kV	Bogalusa - Franklin 500kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Belle Helene - Licar 230kV	Monochem1 - Southwood 138kV	44
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Airline - Sorrento 230kV	Conway - Vulchlor 230kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53

Limiting Element	Contingency Element	ATC
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
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
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Coly - Vignes 230kV	Belle Helene - Licar 230kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	75
Moril - Duboin 138kV	Patout - Teche 138kV (CLECO)	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	80
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	81
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Champagne - Plaisance (CLECO) 138kV	Roy S. Nelson - Richard 500kV	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	84
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Richard - Scott1 138kV	Habetz - Richard 138kV	93

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Riverbend - Fancy Point 230kV	94
Richard - Scott1 138kV	Coughlin - Plaisance 138kV (CLECO)	95
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Richard - Scott1 138kV	Webre - Wells 500kV	103
Stowell - Crooked Bayou 138kV	Base Case	115
Belle Helene - Woodstock 230kV	Tezcuco - Waterford 230kV	120
Vulchlor - Woodstock 230kV	Tezcuco - Waterford 230kV	125
Bonin - Cecelia 138kV	Scanlan - Scott2 138kV	125
Raywood - 5L541T43 138kV	Base Case	127
Judice - Meaux 138kV	Sellers Road (CLECO) - Labbe (LAFA) 230kV	128
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
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Moril - Duboin 138kV	Webre - Wells 500kV	144
Judice - Scott1 138kV	Maurice - Aver Tap 69kV	145
Bonin - Cecelia 138kV	Semere - Scott2 138kV	147
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

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Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-3226
Semere - Scott2 138kV	Richard - Wells 500kV	-2617
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2304
Habetz - Richard 138kV	Richard - Wells 500kV	-2230
Richard - Scott1 138kV	Richard - Wells 500kV	-1776
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1508
North Crowley - Richard 138kV	Richard - Wells 500kV	-1313
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1127
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-851
Cecelia - Semere 138kV	Richard - Wells 500kV	-752
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-257
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-212
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-153
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-52
Bayshore - Brkschr 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkschr 138kV	China Bulk - Sabine 230kV	-19
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-14
Bayshore - Brkschr 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-4

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	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
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
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
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	71
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Shiloh - Brkscrk 138kV	Base Case	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79

Limiting Element	Contingency Element	ATC
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	90
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	99
Stowell - Crooked Bayou 138kV	Base Case	114
Raywood - 5L541T43 138kV	Base Case	126
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	138
Hankamer - Crooked Bayou 138kV	Base Case	138
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

SMEPA

Limiting Element	Contingency Element	ATC
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Polsky Carville 230kV	-5183
Coly - Vignes 230kV - Supplemental Upgrade	A.A.C. - Licar 230kV	-5146
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Licar 230kV	-5017
Coly - Vignes 230kV - Supplemental Upgrade	Belle Helene - Woodstock 230kV	-4609
Coly - Vignes 230kV - Supplemental Upgrade	Vulchlor - Woodstock 230kV	-4607
Coly - Vignes 230kV - Supplemental Upgrade	Waterford - Willow Glen 500kV	-3846
Coly - Vignes 230kV - Supplemental Upgrade	Waterford 500/230 transformer kV	-3846
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-3549
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-3438
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-3324
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-3324
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-3232
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-3232
Coly - Vignes 230kV - Supplemental Upgrade	Conway - Vulchlor 230kV	-3152
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-3096
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-3049
Addis - Big Cajun 1 230kV	Willow Glen - Webre 500kV	-2987
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-2985
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-2911
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-2911

Limiting Element	Contingency Element	ATC
Willow Glen 500/230kV Transformer	Waterford - Willow Glen 500kV	-2893
Willow Glen 500/230kV Transformer	Waterford 500/230 transformer kV	-2893
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	-2596
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-1970
Airline - Sorrento 230kV	A.A.C. - Polsky Carville 230kV	-1946
Airline - Sorrento 230kV	A.A.C. - Licar 230kV	-1909
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-1899
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-1899
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-1896
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-1896
Semere - Scott2 138kV	Richard - Wells 500kV	-1895
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-1836
Belle Helene - Woodstock 230kV	Coly - Vignes 230kV	-1824
Vulchlor - Woodstock 230kV	Coly - Vignes 230kV	-1821
Airline - Sorrento 230kV	Belle Helene - Licar 230kV	-1779
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-1727
North Crowley - Scott1 138kV	Richard - Wells 500kV	-1685
Habetz - Richard 138kV	Richard - Wells 500kV	-1617
Brookhaven - Mallalieu (MEPA) 115kV	Bogalusa - Adams Creek 500/230kV transformer	-1572
Brookhaven - Mallalieu (MEPA) 115kV	Bogalusa - Franklin 500kV	-1572
A.A.C. - Polsky Carville 230kV	Alchem - Monochem1 138kV	-1493
Belle Helene - Woodstock 230kV	Airline - Sorrento 230kV	-1372
Airline - Sorrento 230kV	Belle Helene - Woodstock 230kV	-1372
Airline - Sorrento 230kV	Vulchlor - Woodstock 230kV	-1370
Vulchlor - Woodstock 230kV	Airline - Sorrento 230kV	-1368
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	-1367
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-1361
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	-1298
A.A.C. - Licar 230kV	Bogalusa - Adams Creek 500/230kV transformer	-1227
A.A.C. - Licar 230kV	Bogalusa - Franklin 500kV	-1227
Mallalieu (MEPA) - Norfield 115kV	Bogalusa - Adams Creek 500/230kV transformer	-1095
Mallalieu (MEPA) - Norfield 115kV	Bogalusa - Franklin 500kV	-1095
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1092
Rex Brown W - Rex Brown C 115kV ckt 1	Ray Braswell 500/115kV transformer 1	-1007
North Crowley - Richard 138kV	Richard - Wells 500kV	-960
Rex Brown W - Rex Brown C 115kV ckt 1	South Jackson 230/115kV transformer 1	-951
Airline - Sorrento 230kV	Waterford - Willow Glen 500kV	-935
Airline - Sorrento 230kV	Waterford 500/230 transformer kV	-935
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	-900
Belle Helene - Licar 230kV	Bogalusa - Adams Creek 500/230kV	-874

Limiting Element	Contingency Element	ATC
	transformer	
Belle Helene - Licar 230kV	Bogalusa - Franklin 500kV	-874
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-816
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-616
Cecelia - Semere 138kV	Richard - Wells 500kV	-545
A.A.C. - Polsky Carville 230kV	Donaldsonville - Evergreen 230kV	-540
A.A.C. - Polsky Carville 230kV	Monochem1 - Southwood 138kV	-526
A.A.C. - Licar 230kV	Donaldsonville - Evergreen 230kV	-405
A.A.C. - Licar 230kV	Monochem1 - Southwood 138kV	-394
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-304
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-304
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-289
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	-283
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-271
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	-196
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
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-28
Rex Brown W - Rex Brown C 115kV ckt 1	Klean - Jackson Northeast 115kV	-26
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-20
Coly - Vignes 230kV	A.A.C. - Licar 230kV	-12
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-6
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	41
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Airline - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	45
Airline - Sorrento 230kV	Bogalusa - Franklin 500kV	45
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	47
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Jackson Miami - Jackson Monument Street 115kV	South Jackson 230/115kV transformer 1	54

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Florence - South Jackson 115kV - Supplemental Upgrade	South Jackson - Pop Spring 115kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	57
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	57
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	65
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Belle Helene - Licar 230kV	Monochem1 - Southwood 138kV	67
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	67
Belle Helene - Licar 230kV	Donaldsonville - Evergreen 230kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	71
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Shiloh - Brkscrk 138kV	Base Case	75
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	76
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	77
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	78
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Pop Spring 115kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	84

Limiting Element	Contingency Element	ATC
Airline - Sorrento 230kV	Conway - Vulchlor 230kV	85
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Silver Creek 115kV	87
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Rex Brown W - Rex Brown C 115kV ckt 1	Klean - Flowood 115kV	97
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Gypsy - Waterford 230kV CKT 1	Waterford - Nine Mile 230kV	106
Belle Helene - Woodstock 230kV	Tezcuco - Waterford 230kV	107
Vulchlor - Woodstock 230kV	Tezcuco - Waterford 230kV	111
Stowell - Crooked Bayou 138kV	Base Case	115
Coly - Vignes 230kV	Belle Helene - Licar 230kV	118
Champagne - Plaisance (CLECO) 138kV	Roy S. Nelson - Richard 500kV	123
Raywood - 5L541T43 138kV	Base Case	127
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Ray Braswell 500kV	136
Hankamer - Crooked Bayou 138kV	Base Case	139
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	150

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Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-5507
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-5507
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-5355
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-5355
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-4822
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-4822
Belle Helene - Woodstock 230kV	Waterford - Willow Glen 500kV	-3147
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-3147
Vulchlor - Woodstock 230kV	Waterford - Willow Glen 500kV	-3142
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-3142
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2341
Semere - Scott2 138kV	Richard - Wells 500kV	-2137
North Crowley - Scott1 138kV	Richard - Wells 500kV	-1893
Habetz - Richard 138kV	Richard - Wells 500kV	-1821
Richard - Scott1 138kV	Richard - Wells 500kV	-1459
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1232
North Crowley - Richard 138kV	Richard - Wells 500kV	-1079
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-920
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-695

Limiting Element	Contingency Element	ATC
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-630
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-630
Cecelia - Semere 138kV	Richard - Wells 500kV	-614
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-355
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-253
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-195
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-183
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-133
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-38
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	55
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
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	58
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	74
Shiloh - Brkscrk 138kV	Base Case	75
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	139
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	147
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

SPA

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-3068
Semere - Scott2 138kV	Richard - Wells 500kV	-2538
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2239
Habetz - Richard 138kV	Richard - Wells 500kV	-2162
Richard - Scott1 138kV	Richard - Wells 500kV	-1725
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1463
North Crowley - Richard 138kV	Richard - Wells 500kV	-1276
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-1093
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-825
Cecelia - Semere 138kV	Richard - Wells 500kV	-729
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-244

Limiting Element	Contingency Element	ATC
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-225
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-163
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-49
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - 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
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 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	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
East Gate - Line 533 Tap8 138kV	Porter - China/Porter Series Compensation	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	71
East Gate - Line 533 Tap8 138kV	Porter 230/138/13.8kV 3 Winding Transformer	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Shiloh - Brkscrk 138kV	Base Case	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	90
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	99
Stowell - Crooked Bayou 138kV	Base Case	114
Raywood - 5L541T43 138kV	Base Case	126
Hankamer - Crooked Bayou 138kV	Base Case	139
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	141
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

TVA

Limiting Element	Contingency Element	ATC
Willow Glen - Webre 500kV	Coly - McKnight 500kV	-2601
Semere - Scott2 138kV	Richard - Wells 500kV	-2267
North Crowley - Scott1 138kV	Richard - Wells 500kV	-2006
Habetz - Richard 138kV	Richard - Wells 500kV	-1932
Richard - Scott1 138kV	Richard - Wells 500kV	-1545
Colonial Academy - Richard 138kV	Richard - Wells 500kV	-1306
North Crowley - Richard 138kV	Richard - Wells 500kV	-1143
Acadia GSU - Colonial Academy 138kV	Richard - Wells 500kV	-976
French Settlement - Sorrento 230kV	Bogalusa - Adams Creek 500/230kV transformer	-767
French Settlement - Sorrento 230kV	Bogalusa - Franklin 500kV	-767
Acadia GSU - Scanlan 138kV	Richard - Wells 500kV	-737
Cecelia - Semere 138kV	Richard - Wells 500kV	-651
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-395
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	-246
Willow Glen - Webre 500kV	Big Cajun 2 - Fancy Point 500kV	-210
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-203

Limiting Element	Contingency Element	ATC
Plantation - Cedar Hill 138kV	Oak Ridge - Porter 138kV	-178
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	-42
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Conroe Bulk2 - Plantation 138kV	Oak Ridge - Porter 138kV	-5
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-4
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	4
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	6
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	12
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Bayshore - Brkscrk 138kV	China 230/138kV transformer 1	17
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	18
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	20
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Shiloh - Brkscrk 138kV	China 230/138kV transformer 1	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	28
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	30
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	47
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Toledo - VP Tap 138kV	Colfax - Rodemacher 230kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
East Gate - Line 533 Tap8 138kV	China/Porter - China/Porter Series Compensation ckt 2	55
East Gate - Line 533 Tap8 138kV	China - China/Porter Series Compensation	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	58
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	58
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	64
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	64
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	64
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	64
Bayshore - Brkscrk 138kV	Base Case	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	70
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	73
Raywood - 5L541T43 138kV	Stowell - Winshire 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

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Base Case	75
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	77
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	79
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	83
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	88
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	97
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	139
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Daytona Bulk - New Long John 138kV	Cleveland - Jacinto 138kV	145
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

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	-603
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

AEPW

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-311
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

AMRN

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-649
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

CLECO

Limiting Element	Contingency Element	ATC
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	142
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

EES

Limiting Element	Contingency Element	ATC
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

EMDE

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-519

Limiting Element	Contingency Element	ATC
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

LAFA

Limiting Element	Contingency Element	ATC
Greenwood - Terrebone 115kV	Webre - Wells 500kV	-286
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	142
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

LAGN

Limiting Element	Contingency Element	ATC
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	142
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

LEPA

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	100
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	142
Raceland - Coteau 115kV	Terrebone 230/115kV transformer	143
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

OKGE

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-447
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

SMEPA

Limiting Element	Contingency Element	ATC
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

SOCO

Limiting Element	Contingency Element	ATC
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

SPA

Limiting Element	Contingency Element	ATC
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	-551
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144

TVA

Limiting Element	Contingency Element	ATC
Stowell - PID 252 138kV	China Bulk - Sabine 230kV	141
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144

3.3.4: DETAILS OF SCENARIO 4

AECI

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-867
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-544
Richard - Scott1 138kV	Richard - Wells 500kV	-86
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	5
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	9
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	48
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74

Limiting Element	Contingency Element	ATC
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	116
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	120
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

AEPW

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-980
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-670
Richard - Scott1 138kV	Richard - Wells 500kV	-97
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	4
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	5
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10

Limiting Element	Contingency Element	ATC
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	38
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	48
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	65
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	71
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	75
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	91
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	115
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	139
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

AMRN

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-845
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-524
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-165
Richard - Scott1 138kV	Richard - Wells 500kV	-83
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	5
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	9
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	48
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brksckr 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brksckr 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brksckr 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brksckr 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brksckr 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brksckr 138kV	67
Bayshore - Brksckr 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Memorial - Mid County 138kV	Bayshore - Brksckr 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brksckr 138kV	75
Shiloh - Brksckr 138kV	Base Case	76

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	116
Stowell - Crooked Bayou 138kV	Base Case	116
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

CLECO

Limiting Element	Contingency Element	ATC
Richard - Scott1 138kV	Richard - Wells 500kV	-120
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	33
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	53
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	55
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	66
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	80
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	86
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	92
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	101
Stowell - Crooked Bayou 138kV	Base Case	117
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	141
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

EES

Limiting Element	Contingency Element	ATC
Coly 500/230kV transformer	Coly - Willow Glen 500kV	-2367
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-1915

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-1915
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-1826
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-1826
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-1556
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-1511
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-1511
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-1427
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-1113
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-981
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-965
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-888
North Crowley - Scott1 138kV	Richard - Wells 500kV	-845
A.A.C. - Polsky Carville 230kV	Tezcuco - Waterford 230kV	-604
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	-468
Belle Helene - Woodstock 230kV	Waterford 500/230 transformer kV	-468
A.A.C. - Licar 230kV	Tezcuco - Waterford 230kV	-454
Coughlin - Plaisance 138kV (CLECO)	Webre - Wells 500kV	-436
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	-379
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	-83
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	33
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	35
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	35
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	43
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	44
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	53
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	73
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	80
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	82
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	84
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	84
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	86
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	92
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	101
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	110
Stowell - Crooked Bayou 138kV	Base Case	116
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	140
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

EMDE

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-893
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-570
Richard - Scott1 138kV	Richard - Wells 500kV	-88
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	5
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	48
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	116
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	126
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

Lafa

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-984
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	-824
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-571
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-557
Semere - Scott2 138kV	Richard - Wells 500kV	-485
North Crowley - Scott1 138kV	Richard - Wells 500kV	-357
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-160
Richard - Scott1 138kV	Richard - Wells 500kV	-35
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brksckr 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brksckr 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brksckr 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brksckr 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brksckr 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brksckr 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brksckr 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brksckr 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brksckr 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brksckr 138kV	Cheek - South Beaumont 138kV	8

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Scott1 138kV	9
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	11
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Semere - Scott2 138kV	Richard 500/230kV transformer (CLECO)	31
Semere - Scott2 138kV	Richard (CLECO) - Sellers Road (CLECO) 230kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	33
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	55
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	62
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	66
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	73
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	75
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Habetz - Richard 138kV	Richard - Wells 500kV	79
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	80
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	80
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	84
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	86
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	86
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	92
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	93
Shiloh - 5L541T43 138kV	Base Case	99
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	101
Semere - Scott2 138kV	Sellers Road (CLECO) - Segura (CLECO) 230kV	104

Limiting Element	Contingency Element	ATC
Semere - Scott2 138kV	Segura (CLECO) 230/138kV transformer'	106
Semere - Scott2 138kV	Habetz - Richard 138kV	108
Stowell - Crooked Bayou 138kV	Base Case	117
Raywood - 5L541T43 138kV	Base Case	129
Hankamer - Crooked Bayou 138kV	Base Case	141
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

LAGN

Limiting Element	Contingency Element	ATC
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-1230
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-805
Coughlin - Plaisance 138kV (CLECO)	Webre - Wells 500kV	-453
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-141
Richard - Scott1 138kV	Richard - Wells 500kV	-117
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	11
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	33
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	53
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	55
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	66
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	73
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	80
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	86
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	92
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	93
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	101
Stowell - Crooked Bayou 138kV	Base Case	116
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	127
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	141
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

LEPA

Limiting Element	Contingency Element	ATC
Champagne - Plaisance (CLECO) 138kV	Cocodrie - Vil Plat 230kV	-1340
Champagne - Plaisance (CLECO) 138kV	Vil Plat - West Fork 230kV	-1122
Champagne - Plaisance (CLECO) 138kV	Vatican - Scott1 138kV	-868
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-785
Champagne - Plaisance (CLECO) 138kV	Wells (CLECO) - West Fork (CLECO) 230kV	-777
Coly 500/230kV transformer	Coly - Willow Glen 500kV	-758
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-722
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-722
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-716

Limiting Element	Contingency Element	ATC
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	-608
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	-561
North Crowley - Scott1 138kV	Richard - Wells 500kV	-522
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	-321
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-304
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
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	-88
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 - Brksckr 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brksckr 138kV	China Bulk - Sabine 230kV	-19
Moril - Duboin 138kV	Patout - Teche 138kV (CLECO)	-7
Bayshore - Brksckr 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brksckr 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brksckr 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brksckr 138kV	Cheek - South Beaumont 138kV	-1

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
North Crowley - Scott1 138kV	Richard - Scott1 138kV	25
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	30
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	33
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Moril - Duboin 138kV	Webre - Wells 500kV	43

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	53
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	55
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	59
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	66
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	73
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	80
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Webre - Bayou Laboutte 500kV ckt1	Coly - McKnight 500kV	82
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	86
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89

Limiting Element	Contingency Element	ATC
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	92
Champagne - Plaisance (CLECO) 138kV	Colfax - Rodemacher 230kV	92
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	93
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	94
A.A.C. - Polsky Carville 230kV	Coly - Hammond 230kV	97
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	101
Habetz - Richard 138kV	Richard - Wells 500kV	112
Webre - Bayou Laboutte 500kV ckt1	Coly - McKnight 500kV	115
Stowell - Crooked Bayou 138kV	Base Case	117
Raywood - 5L541T43 138kV	Base Case	128
Coly 500/230kV transformer	Bogalusa - Adams Creek 500/230kV transformer	130
Coly 500/230kV transformer	Bogalusa - Franklin 500kV	130
Belle Helene - Licar 230kV	Alchem - Monochem1 138kV	139
Belle Helene - Licar 230kV	Coly 500/230kV transformer	140
Hankamer - Crooked Bayou 138kV	Base Case	141
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Moril - Segura (CLECO) 138kV	Hopkins - Segura 138kV (CLECO)	146
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

OKGE

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-920
North Crowley - Scott1 138kV	Richard - Wells 500kV	-765
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-598
Richard - Scott1 138kV	Richard - Wells 500kV	-91
Bayshore - Brksckr 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brksckr 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brksckr 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brksckr 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brksckr 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brksckr 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brksckr 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brksckr 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brksckr 138kV	Dayton Bulk - Cheek 138kV	5
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	6
Shiloh - Brksckr 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brksckr 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brksckr 138kV	Memorial - Mid County 138kV	10
Bayshore - Brksckr 138kV	Amelia Bulk - China Bulk 230kV	10

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	41
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	48
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54

Limiting Element	Contingency Element	ATC
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	67
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	75
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	78
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	116
Raywood - 5L541T43 138kV	Base Case	127
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	133
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

SMEPA

Limiting Element	Contingency Element	ATC
A.A.C. - Polsky Carville 230kV	Waterford - Willow Glen 500kV	-2060
A.A.C. - Polsky Carville 230kV	Waterford 500/230 transformer kV	-2060
A.A.C. - Licar 230kV	Waterford - Willow Glen 500kV	-1958
A.A.C. - Licar 230kV	Waterford 500/230 transformer kV	-1958
Belle Helene - Licar 230kV	Waterford - Willow Glen 500kV	-1603
Belle Helene - Licar 230kV	Waterford 500/230 transformer kV	-1603
A.A.C. - Polsky Carville 230kV	Coly - Vignes 230kV	-1570
A.A.C. - Licar 230kV	Coly - Vignes 230kV	-1432
A.A.C. - Polsky Carville 230kV	Airline - Sorrento 230kV	-1122
A.A.C. - Licar 230kV	Airline - Sorrento 230kV	-985
Belle Helene - Licar 230kV	Coly - Vignes 230kV	-953
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	-671
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	-474
Vulchlor - Woodstock 230kV	Waterford 500/230 transformer kV	-474
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	-383
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-367
Coughlin - Plaisance 138kV (CLECO)	Webre - Wells 500kV	-344
A.A.C. - Licar 230kV	Coly 500/230kV transformer	-251
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-243
A.A.C. - Licar 230kV	Alchem - Monochem1 138kV	-241
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	-66
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 - Brkschr 138kV	China Bulk - Sabine 230kV	-27

Limiting Element	Contingency Element	ATC
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Pop Spring 115kV	-14
Florence - South Jackson 115kV - Supplemental Upgrade	Georgetown - Silver Creek 115kV	-8
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Coughlin - Plaisance 138kV (CLECO)	Roy S. Nelson - Richard 500kV	-3
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Mcknight 500kV	-1
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Florence - South Jackson 115kV - Supplemental Upgrade	Franklin - Ray Braswell 500kV	15
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34

Limiting Element	Contingency Element	ATC
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	53
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	55
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	67
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	73
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Florence - South Jackson 115kV - Supplemental Upgrade	Brookhaven - Mallalieu (MEPA) 115kV	75
Shiloh - Brkscrk 138kV	Base Case	76

Limiting Element	Contingency Element	ATC
Belle Helene - Licar 230kV	Tezcuco - Waterford 230kV	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	80
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Florence - South Jackson 115kV - Supplemental Upgrade	Mallalieu (MEPA) - Norfield 115kV	83
Raywood - 5L541T43 138kV	Winshire - Craigen 69kV	83
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	84
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	86
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	92
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	101
Rex Brown W - Rex Brown C 115kV ckt 1	Klean - Jackson Northeast 115kV	109
Stowell - Crooked Bayou 138kV	Base Case	116
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
A.A.C. - Polsky Carville 230kV	Coly - Hammond 230kV	145
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

SOCO

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-755
North Crowley - Scott1 138kV	Richard - Wells 500kV	-638
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-477
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-446
Coughlin - Plaisance 138kV (CLECO)	Webre - Wells 500kV	-423
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-132
Richard - Scott1 138kV	Richard - Wells 500kV	-75
Bayshore - Brksrck 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brksrck 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brksrck 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brksrck 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brksrck 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brksrck 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brksrck 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brksrck 138kV	Bayou Farm - Memorial 138kV	3

Limiting Element	Contingency Element	ATC
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	92
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	116

Limiting Element	Contingency Element	ATC
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

SPA

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-893
North Crowley - Scott1 138kV	Richard - Wells 500kV	-745
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-568
Richard - Scott1 138kV	Richard - Wells 500kV	-88
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	5
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26

Limiting Element	Contingency Element	ATC
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	42
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	48
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	51
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	67

Limiting Element	Contingency Element	ATC
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Stowell - Crooked Bayou 138kV	Base Case	116
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	125
Raywood - 5L541T43 138kV	Base Case	127
Hankamer - Crooked Bayou 138kV	Base Case	140
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150

TVA

Limiting Element	Contingency Element	ATC
North Crowley - Scott1 138kV	Richard - Wells 500kV	-800
Ray Braswell - Baxter Wilson 500kV - Supplemental Upgrade	Franklin - Grand Gulf 500kV	-736
Bayou Laboutte 500/230kV transformer 1	Webre - Bayou Laboutte 500kV ckt1	-485
Coughlin - Plaisance 138kV (CLECO)	Webre - Wells 500kV	-471
Champagne - Plaisance (CLECO) 138kV	Webre - Wells 500kV	-147
Richard - Scott1 138kV	Richard - Wells 500kV	-79
Bayshore - Brkscrk 138kV	China Bulk - Sabine 230kV	-27
Shiloh - Brkscrk 138kV	China Bulk - Sabine 230kV	-19
Bayshore - Brkscrk 138kV	Big Hill - PID 252 138kV	-7
Shiloh - Brkscrk 138kV	Big Hill - PID 252 138kV	-3
Bayshore - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	-1

Limiting Element	Contingency Element	ATC
Bayshore - Brkscrk 138kV	Cheek - South Beaumont 138kV	-1
Shiloh - Brkscrk 138kV	Bayou Farm - Big Hill 138kV	3
Shiloh - 5L541T43 138kV	China Bulk - Sabine 230kV	3
Bayshore - Brkscrk 138kV	Bayou Farm - Memorial 138kV	3
Bayshore - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	6
Shiloh - 5L541T43 138kV	Big Hill - PID 252 138kV	6
Shiloh - Brkscrk 138kV	Bayou Farm - Memorial 138kV	7
Shiloh - Brkscrk 138kV	Cheek - South Beaumont 138kV	8
Bayshore - Brkscrk 138kV	Memorial - Mid County 138kV	10
Bayshore - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	10
Stowell - Crooked Bayou 138kV	Big Hill - PID 252 138kV	11
Shiloh - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	12
Shiloh - Brkscrk 138kV	Memorial - Mid County 138kV	13
Shiloh - Brkscrk 138kV	Dayton Bulk - Cheek 138kV	14
Stowell - Crooked Bayou 138kV	China Bulk - Sabine 230kV	15
Shiloh - 5L541T43 138kV	Bayou Farm - Memorial 138kV	16
Stowell - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	17
Raywood - 5L541T43 138kV	Big Hill - PID 252 138kV	18
Shiloh - Brkscrk 138kV	Amelia Bulk - China Bulk 230kV	19
Hankamer - Crooked Bayou 138kV	Big Hill - PID 252 138kV	21
Stowell - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	21
Bayshore - Brkscrk 138kV	Stowell - Winshire 69kV	21
Bayshore - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	21
Shiloh - 5L541T43 138kV	Memorial - Mid County 138kV	22
Raywood - 5L541T43 138kV	Bayou Farm - Big Hill 138kV	24
Bayshore - Hankamer 138kV	Big Hill - PID 252 138kV	26
Hankamer - Crooked Bayou 138kV	Bayou Farm - Big Hill 138kV	27
Stowell - Crooked Bayou 138kV	Memorial - Mid County 138kV	27
Raywood - 5L541T43 138kV	Bayou Farm - Memorial 138kV	28
Shiloh - Brkscrk 138kV	Stowell - Winshire 69kV	28
Shiloh - Brkscrk 138kV	Dayton Bulk 138kV Bus Tie	29
Shiloh - 5L541T43 138kV	Cheek - South Beaumont 138kV	30
Hankamer - Crooked Bayou 138kV	Bayou Farm - Memorial 138kV	31
Bayshore - Hankamer 138kV	Bayou Farm - Big Hill 138kV	32
Raywood - 5L541T43 138kV	China Bulk - Sabine 230kV	32
Big Hill - PID 252 138kV	Stowell - Crooked Bayou 138kV	34
Raywood - 5L541T43 138kV	Memorial - Mid County 138kV	34
Bayshore - Hankamer 138kV	Bayou Farm - Memorial 138kV	36
Shiloh - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	36
Hankamer - Crooked Bayou 138kV	Memorial - Mid County 138kV	37
Hankamer - Crooked Bayou 138kV	China Bulk - Sabine 230kV	39
Big Hill - PID 252 138kV	Hankamer - Crooked Bayou 138kV	40
Shiloh - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	42
Bayou Farm - Big Hill 138kV	Stowell - Crooked Bayou 138kV	42
Bayshore - Hankamer 138kV	Memorial - Mid County 138kV	42
Stowell - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	43
Big Hill - PID 252 138kV	Bayshore - Hankamer 138kV	43

Limiting Element	Contingency Element	ATC
Bayou Farm - Memorial 138kV	Stowell - Crooked Bayou 138kV	46
Bayou Farm - Big Hill 138kV	Hankamer - Crooked Bayou 138kV	47
Shiloh - 5L541T43 138kV	Stowell - Winshire 69kV	48
Stowell - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	49
Bayou Farm - Big Hill 138kV	Bayshore - Hankamer 138kV	51
Bayou Farm - Memorial 138kV	Hankamer - Crooked Bayou 138kV	51
Bayshore - Hankamer 138kV	China Bulk - Sabine 230kV	52
Shiloh - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	52
Big Hill - PID 252 138kV	Bayshore - Brkscrk 138kV	53
Memorial - Mid County 138kV	Stowell - Crooked Bayou 138kV	54
Stowell - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	54
Bayou Farm - Memorial 138kV	Bayshore - Hankamer 138kV	55
Big Hill - PID 252 138kV	Shiloh - Brkscrk 138kV	55
Stowell - Crooked Bayou 138kV	Stowell - Winshire 69kV	59
Memorial - Mid County 138kV	Hankamer - Crooked Bayou 138kV	59
Raywood - 5L541T43 138kV	Cheek - South Beaumont 138kV	60
Bayou Farm - Big Hill 138kV	Bayshore - Brkscrk 138kV	60
Big Hill - PID 252 138kV	Shiloh - 5L541T43 138kV	62
Bayou Farm - Big Hill 138kV	Shiloh - Brkscrk 138kV	63
Memorial - Mid County 138kV	Bayshore - Hankamer 138kV	63
Bayou Farm - Memorial 138kV	Bayshore - Brkscrk 138kV	65
Stowell - Crooked Bayou 138kV	Dayton Bulk 138kV Bus Tie	65
Raywood - 5L541T43 138kV	Dayton Bulk - Cheek 138kV	66
Hankamer - Crooked Bayou 138kV	Cheek - South Beaumont 138kV	66
Bayou Farm - Memorial 138kV	Shiloh - Brkscrk 138kV	67
Bayshore - Brkscrk 138kV	Base Case	68
Bayou Farm - Big Hill 138kV	Shiloh - 5L541T43 138kV	69
Big Hill - PID 252 138kV	Raywood - 5L541T43 138kV	71
Raywood - 5L541T43 138kV	Amelia Bulk - China Bulk 230kV	72
Memorial - Mid County 138kV	Bayshore - Brkscrk 138kV	72
Hankamer - Crooked Bayou 138kV	Dayton Bulk - Cheek 138kV	72
Bayou Farm - Memorial 138kV	Shiloh - 5L541T43 138kV	74
Raywood - 5L541T43 138kV	Stowell - Winshire 69kV	74
Memorial - Mid County 138kV	Shiloh - Brkscrk 138kV	75
Shiloh - Brkscrk 138kV	Base Case	76
Bayou Farm - Big Hill 138kV	Raywood - 5L541T43 138kV	78
Hankamer - Crooked Bayou 138kV	Amelia Bulk - China Bulk 230kV	79
Bayshore - Hankamer 138kV	Cheek - South Beaumont 138kV	79
Hankamer - Crooked Bayou 138kV	Stowell - Winshire 69kV	80
Memorial - Mid County 138kV	Shiloh - 5L541T43 138kV	81
Bayou Farm - Memorial 138kV	Raywood - 5L541T43 138kV	82
Raywood - 5L541T43 138kV	Dayton Bulk 138kV Bus Tie	83
Bayshore - Hankamer 138kV	Dayton Bulk - Cheek 138kV	85
Hankamer - Crooked Bayou 138kV	Winshire - Craigen 69kV	89
Memorial - Mid County 138kV	Raywood - 5L541T43 138kV	90
Bayshore - Hankamer 138kV	Stowell - Winshire 69kV	91
Bayshore - Hankamer 138kV	Amelia Bulk - China Bulk 230kV	92

Limiting Element	Contingency Element	ATC
Shiloh - 5L541T43 138kV	Base Case	98
Bayshore - Hankamer 138kV	Winshire - Craigen 69kV	100
Champagne - Krotz Spring 138kV	Webre - Wells 500kV	106
Stowell - Crooked Bayou 138kV	Base Case	116
Raywood - 5L541T43 138kV	Base Case	128
Hankamer - Crooked Bayou 138kV	Base Case	140
Stowell - PID 252 138kV	Big Hill - PID 252 138kV	144
Big Hill - PID 252 138kV	Stowell - PID 252 138kV	144
Stowell - PID 252 138kV	Bayou Farm - Big Hill 138kV	150
Bayou Farm - Big Hill 138kV	Stowell - PID 252 138kV	150

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 (Aquilla) 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
74899974	Entergy Services (SPO)	1	1/1/2015	1/1/2045
74899976	Entergy Services (SPO)	1	1/1/2015	1/1/2045

OASIS #	PSE	MW	Begin	End
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