



***Feasibility Study
PID 241
650MW Plant***

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Energy Resource Interconnection Service

1. Introduction

This Energy Resource Interconnection Service (ERIS) is based on the Customer's request for 650MW interconnection on Entergy's transmission system at Prospect 230kV substation. The objective of this study is to assess the reliability impact of the new facility on the Entergy transmission system with respect to the steady state and transient stability performance of the system as well as its effects on the system's existing short circuit current capability. It is also intended to determine whether the transmission system meets standards established by NERC Reliability Standards and Entergy's planning guidelines when plant is connected to Entergy's transmission system. If not, transmission improvements will be identified.

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. A transient stability analysis was conducted to determine if the new units would cause a stability problem on the Entergy system.

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

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

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-241 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-241 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-241 generation. Any breakers identified to be upgraded through this comparison are mandatory upgrades.

2.3 Analysis Results

The results of the short circuit analysis indicates that the additional generation due to PID 241 generation causes no increase in short circuit current such that they exceed the fault interrupting capability of the high voltage circuit breakers within the vicinity of the PID 241 plant **with and without priors**. Priors included are: 216, 217, 221, 223, 224, 228, 231, 233, and 237.

2.4 Problem Resolution

As a result of the short circuit analysis findings, no resolution 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. The loads were scaled based on the forecasted loads for the year. All firm power transactions between Entergy and its neighboring control areas were modeled for the year 2014 excluding short-term firm transactions on the same transmission interface. An economic dispatch was carried out on Entergy generating units after the scaling of load and modeling of transactions. The proposed Customer generation and the associated facilities were then modeled in the case to build a revised case for the load flow analysis. Transfers were simulated between thirteen (13) control areas and Entergy using requesting generator as the source and adjacent control area as sink.

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 Analyses

3.2.1 Load Flow Analysis

With the above assumptions implemented, the First Contingency Incremental Transfer Capability (FCITC) values are calculated. The FCITC depends on various factors – the system load, generation dispatch, scheduled maintenance of equipment, and the configuration of the interconnected system and the power flows in effect among the interconnected systems. The FCITC is also dependent on previously confirmed firm reservations on the interface.

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 0.33MVAR (*i.e.*, 0.95 lagging power factor) and absorbing at least 0.33MVAR (*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

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

Table 3.3 1: Summary of Results for PID 241 – ERIIS 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.	2015	0	0	0	0
AMRN	Ameren Transmission	2015	0	0	0	0
CLEC	CLECO	2015	0	0	0	0
AEPW	American Electric Power - West	2015	0	0	0	0
EDE	Empire District Electric Co	2015	0	0	0	0
LAF	Lafayette Utilities System	2015	0	0	0	0
LAGN	Louisiana Generating, LLC	2015	0	0	0	0
LEPA	Louisiana Energy & Power Authority	2015	0	0	0	0
OGE	Oklahoma Gas & Electric Company	2015	0	0	0	0
SME	South Mississippi Electric Power Assoc.	2015	0	0	0	0
SOCO	Southern Company	2015	0	0	0	0
SWPA	Southwest Power Administration	2015	0	0	0	0
TVA	Tennessee Valley Authority	2015	0	0	0	0

TABLE 3.3 2: DETAILS OF SCENARIO 1 RESULTS: (WITHOUT FUTURE PROJECTS AND WITHOUT PENDING TRANSMISSION SERVICE & STUDY REQUEST)

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Acadia GSU - Colonial Academy 138kV	Included in 2010 ICT Base Plan & Entergy's CP							X							
Acadia GSU - Scanlan 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Belle Point - Gypsy 230kV ¹	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Belle Point - Tezcucu 230kV ²	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X		X	X	X	X	X
Bull Shoals - Bull Shoals Dam SPA 161kV	Other Ownership						X								
Bull Shoals - Lead HL 161kV	TBD						X								
Calico Rock - Melbourne 161kV	13,274,000						X				X			X	
Calico Rock - Norfolk 161kV	7,656,000						X				X			X	
Colonial Academy - Richard 138kV	Included in 2010 ICT Base Plan and							X							

¹ The Belle Point-Gypsy 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcucu 230kV).

² The Belle Point-Tezcucu 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcucu 230kV).

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
	Entergy's CP														
Conway West 161/115kV transformer	TBD													X	
Duboin - Bayou Warehouse 138kV	TBD							X							
Fairview - Gypsy 230kV	TBD	X	X	X	X		X				X	X	X	X	X
Florence - South Jackson 115kV	Committed to by others											X			
Frisco - Tezcucu 230kV ckt 1	TBD								X						
Frisco - Tezcucu 230kV ckt 2	TBD								X						
Gibson - Humphrey 115kV	36,493,214				X			X							
Gibson - Ramos 138kV	6,242,290							X							
Greenbrier - Quitman 161kV	TBD													X	
Greenwood - Humphrey 115kV	3,281,488 (SS owned by LAGN)				X			X							
Greenwood - Terrebonne 115kV	33,226,332	X	X	X	X	X	X	X	X		X		X	X	X
Habetz - Richard 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Harrison East - Summit 161kV	17,650,000						X								
Independence SES - Moorefield 161kV	17,760,000						X							X	
Jackson Miami - Rex Brown 115kV	1,320,000											X			
Krotz Springs - Line 642 Tap 138kV	610,060				X			X							
Lake Conway - Mayflower 115kV	TBD													X	
Livonia - Line 642 Tap 138kV	12,371,002				X			X							
Livonia - Wilbert 138kV	41,123,000				X			X							
Louisiana Station - Thomas 138kV	645,943				X			X		X					

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Louisiana Station - Wilbert 138kV	2,990,250							X							
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Other Ownership		X												
Melbourne - Sage 161kV	4,207,000						X				X			X	
North Crowley - Richard 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
North Crowley - Scott1 138kV	Included in 2010 ICT Base Plan and Entergy's CP				X			X							
Pleasant Hill 500/161kV transformer	TBD						X							X	
Port Hudson - Thomas 138kV	TBD				X			X		X					
Port Hudson 230/138 transformer 1	TBD									X					
Port Hudson 230/138 transformer 2	TBD									X					
Raceland - Coteau 115kV	TBD									X					
Richard - Scott1 138kV	Included in 2010 ICT Base Plan and Entergy's CP				X			X							
Russellville East - Russellville North 161kV	4,910,000		X				X				X			X	
Russellville South - Dardanelle Dam 161kV	Committed by Others													X	
Scott1 - Bonin 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Semere - Scott2 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Sterlington 500/115kV transformer 2	Committed to by Others	X	X	X	X	X	X				X			X	
Tezcucu - Waterford 230kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vacherie - Waterford 230kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wells 500/230kV transformer	TBD				X			X							

TABLE 3.3 3: DETAILS OF SCENARIO 2 RESULTS: (WITHOUT FUTURE PROJECTS AND WITH PENDING TRANSMISSION SERVICE & STUDY REQUEST)

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFa	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Acadia GSU - Colonial Academy 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Acadia GSU - Scanlan 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Ameila Bulk - Bevil 230kV	TBD					X									
Amelia Bulk - Helbig 230kV	7,702,500		X			X									
Belle Point - Gypsy 230kV ³	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Belle Point - Tezcucu 230kV ⁴	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bevil - Cypress 230kV	TBD					X									
Cecelia - Semere 138kV	TBD							X							
Cedar Hill - Tamina 138kV	Included in 2010 ICT Base Plan and Entergy's CP		X												
Colonial Academy - Richard 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Colonial Welsh - Lake Charles Bulk 138kV	TBD	X	X	X		X	X				X			X	X
Colonial Welsh TP - Hebert 138kV	TBD	X	X	X		X	X				X			X	X

³ The Belle Point-Gypsy 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcucu 230kV).

⁴ The Belle Point-Tezcucu 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcucu 230kV).

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Cypress 500/138kV transformer 1	TBD		X			X									
Cypress 500/230kV transformer	TBD		X			X									
Duboin - Bayou Warehouse 138kV	TBD							X							
Eunice - Richard 138kV	Other Ownership				X										
Fairview - Gypsy 230kV	TBD	X	X	X			X				X	X	X	X	X
Florence - South Jackson 115kV	Committed to by others											X			
Frisco - Tezcuco 230kV ckt 1	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Frisco - Tezcuco 230kV ckt 2	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Gibson - Humphrey 115kV	36,493,214				X			X							
Gibson - Ramos 138kV	6,242,290							X							
Gonzales - Sorrento 138kV	TBD				X			X		X					
Greenwood - Humphrey 115kV	3,281,488 (SS owned by LAGN)				X			X							
Greenwood - Terrebonne 115kV	33,226,332	X	X	X	X	X	X	X	X		X		X	X	X
Habetz - Richard 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Harrison East - Omaha 161kV	TBD						X								
Hartburg - Inland Orange 230kV	Committed to by others		X			X									
Hartburg 500/230kV transformer 1	TBD		X			X									
Hebert - Bayou Cove 138kV	750,000	X	X	X		X	X				X			X	X
Helbig - McLewis 230kV	26,740,000		X			X									
Hopkins - Segura 138kV (CLECO)	TBD				X										
Inland - McLewis 230kV	Committed to by Others		X			X									
Jackson Miami - Rex Brown 115kV	1,320,000											X			

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Jennings - Bayou Cove 138kV	2,106,000	X	X	X		X	X				X			X	
Krotz Springs - Line 642 Tap 138kV	610,060							X							
Lake Conway - Mayflower 115kV	TBD													X	
Lakeover 500/115kV transformer	8,100,000											X			
Livonia - Line 642 Tap 138kV	12,371,002				X			X							
Livonia - Wilbert 138kV	41,123,000				X			X							
Louisiana Station - Thomas 138kV	645,943				X			X		X					
Louisiana Station - Wilbert 138kV	2,990,250				X			X							
McAdams 500/230kV transformer 1	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X			X				X		X	X	X
Melbourne - Sage 161kV	4,207,000						X							X	
North Crowley - Richard 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
North Crowley - Scott1 138kV	Included in 2010 ICT Base Plan and Entergy's CP				X			X							
OZD312 - Omaha 161kV	TBD						X								
Pleasant Hill 500/161kV transformer	TBD													X	
Port Hudson - Thomas 138kV	TBD				X			X		X					
Port Hudson 230/138 transformer 1	TBD									X					
Port Hudson 230/138 transformer 2	TBD									X					
Raceland - Coteau 115kV	TBD									X					
Rex Brown W - Rex Brown C 115kV ckt 1	TBD											X			
Richard - Scott1 138kV	Included in 2010 ICT Base				X			X							

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
	Plan and Entergy's CP														
Roy S. Nelson 500/230kV auto	TBD		X		X	X									
Scott1 - Bonin 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Semere - Scott2 138kV	Included in 2010 ICT Base Plan and Entergy's CP							X							
Sorrento 138/115kV transformer 1	#N/A							X		X					
Sterlington 500/115kV transformer 2	Committed to by others	X	X	X	X	X	X				X			X	
Tezcuco - Waterford 230kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vacherie - Waterford 230kV	TBD	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wells 500/230kV transformer	TBD				X			X							

TABLE 3.3 4: DETAILS OF SCENARIO 3 RESULTS: (WITH FUTURE PROJECTS AND WITHOUT PENDING TRANSMISSION SERVICE & STUDY REQUEST)

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAF A	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Belle Point - Gypsy 230kV ⁵	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Belle Point - Tezcucu 230kV ⁶	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X		X	X	X	X	X
Bull Shoals - Bull Shoals Dam SPA 161kV	Other Ownership						X								
Bull Shoals - Lead HL 161kV	TBD						X								
Calico Rock - Melbourne 161kV	13,274,000						X				X			X	
Calico Rock - Norfolk 161kV	7,656,000						X				X			X	
Chauvin - Valentine 115kV	6,571,125									X					
Gibson - Humphrey 115kV	36,493,214				X			X							
Greenbrier - Quitman 161kV	TBD													X	
Greenwood - Humphrey 115kV	3,281,488 (SS owned by LAGN)				X			X							
Greenwood - Terrebonne 115kV	33,226,332				X			X							
Harrison East - Summit 161kV	17,650,000						X								
Independence SES - Moorefield 161kV	17,760,000						X				X			X	
Jackson Miami - Rex Brown 115kV	1,320,000											X			
Krotz Spring - Line 642 Tap 138kV	310,060							X							
Livonia - Line 642 Tap 138kV	12,371,002							X							
Livonia - Wilbert 138kV	41,123,000				X			X							

⁵ The Belle Point-Gypsy 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcucu 230kV).

⁶ The Belle Point-Tezcucu 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcucu 230kV).

TABLE 3.3.5: DETAILS OF SCENARIO 4 RESULTS: (WITH FUTURE PROJECTS AND WITH PENDING TRANSMISSION SERVICE & STUDY REQUEST)

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	LAFA	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Ameila Bulk - Bevil 230kV	TBD					X									
Belle Point - Gypsy 230kV ⁷	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Belle Point - Tezcuco 230kV ⁸	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bevil - Cypress 230kV	TBD					X									
Chauvin - Valentine 115kV	6,571,125									X					
Colonial Welsh TP - Hebert 138kV	TBD		X								X				
Cypress 500/138kV transformer 1	TBD		X			X									
Cypress 500/230kV transformer	TBD		X			X									
Frisco - Tezcuco 230kV ckt 1	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Frisco - Tezcuco 230kV ckt 2	TBD	X	X	X	X	X	X	X	X		X	X	X	X	X
Gibson - Humphrey 115kV	36,493,214							X							
Gonzales - Sorrento 138kV	TBD				X			X		4					
Greenwood - Humphrey 115kV	3,281,488 (SS owned by LAGN)				X			X							
Greenwood - Terrebonne 115kV	33,226,332				X			X							
Harrison East - Omaha 161kV	TBD						X								

⁷ The Belle Point-Gypsy 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcuco 230kV).

⁸ The Belle Point-Tezcuco 230vK line upgrade project included in the 2009 ICT Base Plan was displaced by 2010 ICT Base Plan Project# BP-10-012 (Bayou Steel-Tezcuco 230kV).

Limiting Element	Cost Est.	AECI	AEPW	AMRN	CLECO	EES	EMDE	Lafa	LAGN	LEPA	OKGE	SMEPA	SOCO	SWPA	TVA
Hartburg - Inland Orange 230kV	Committed to by Others		X			X									
Hartburg 500/230kV transformer 1	TBD		X			X									
Hebert - Bayou Cove 138kV	750,000	X	X	X		X	X				X			X	X
Helbig - McLewis 230kV	26,740,000		X			X									
Inland - McLewis 230kV	Committed to by Others		X			X									
Jackson Miami - Rex Brown 115kV	1,320,000											X			
Jennings - Bayou Cove 138kV	2,106,000		X			X					X				
Lakeover 500/115kV transformer	8,100,000											X			
Livonia - Wilbert 138kV	41,123,000							X							
Louisiana Station - Thomas 138kV	645,943				X			X		X					
Louisiana Station - Wilbert 138kV	2,990,250							X							
McAdams 500/230kV transformer 1	Included in 2010 ICT Base Plan and Entergy's CP	X	X	X			X				X		X	X	X
OZD312 - Omaha 161kV	TBD						X								
Pleasant Hill 500/161kV transformer	TBD													X	
Port Hudson - Thomas 138kV	TBD				X			X		X					
Port Hudson 230/138 transformer 1	TBD									X					
Port Hudson 230/138 transformer 2	TBD									X					
Rex Brown W - Rex Brown C 115kV ckt 1	TBD											X			
Roy S. Nelson 500/230kV auto	TBD		X		X	X									
Sorrento 138/115kV	TBD									X					

3.3.1 DETAILS OF SCENARIO 1

AECI

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	258
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	266
Vacherie - Waterford 230kV	Landry - Raceland 230kV	266
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	392
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	490
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	502
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	546
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	557
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	559
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	588

AEPW

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	255
Vacherie - Waterford 230kV	Landry - Raceland 230kV	255
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	264
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	321
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	487
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	524
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	535
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	543
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	579
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	584
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	586
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	602

AMRN

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0

Limiting Element	Contingency Element	ATC
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	259
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	266
Vacherie - Waterford 230kV	Landry - Raceland 230kV	268
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	407
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	491
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	498
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	546
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	554
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	561
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	588

CLECO

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0
Port Hudson - Thomas 138kV	Webre - Wells 500kV	128
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	152
North Crowley - Scott1 138kV	Wells 500/230kV transformer	182
Vacherie - Waterford 230kV	Landry - Raceland 230kV	189
Richard - Scott1 138kV	North Crowley - Richard 138kV	207
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	250
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	271
Greenwood - Humphrey 115kV	Webre - Wells 500kV	379
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	397
Livonia - Wilbert 138kV	Webre - Wells 500kV	403
Gibson - Humphrey 115kV	Webre - Wells 500kV	420
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	482
Livonia - Line 642 Tap 138kV	Webre - Wells 500kV	534
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	537
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	578
Louisiana Station - Thomas 138kV	Richard - Wells 500kV	581
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	591
Wells 500/230kV transformer	Base Case	598
Greenwood - Terrebonne 115kV	Richard - Wells 500kV	599
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	631

EES

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Gypsy 230kV	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	242

Limiting Element	Contingency Element	ATC
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	264
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	268
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	426
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	509
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	513
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	577
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	621

EMDE

Limiting Element	Contingency Element	ATC
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV transformer	0
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcucu - Waterford 230kV	Gypsy - Belle Point 230kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	St. Joe - Hilltop 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Everton - St. Joe 161kV	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Harrison East - Everton 161kV	0
Melbourne - Sage 161kV	Dell - Independence SES 500kV	0
Melbourne - Sage 161kV	ANO - Fort Smith 500kV	0
Melbourne - Sage 161kV	Newport - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead HL 161kV	0
Melbourne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
Melbourne - Sage 161kV	Cash - Newport AB 161kV	0
Melbourne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Melbourne - Sage 161kV	Sage - Guion 161kV	0
Melbourne - Sage 161kV	Cash - Jonesboro 161kV	0
Melbourne - Sage 161kV	Mountain View - Guion 161kV	9
Melbourne - Sage 161kV	Newport - Swifton 161kV	12
Calico Rock - Melbourne 161kV	ANO - Fort Smith 500kV	197
Bull Shoals - Bull Shoals Dam SPA 161kV	ANO - Fort Smith 500kV	199
Calico Rock - Melbourne 161kV	Dell - Independence SES 500kV	223
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	257
Calico Rock - Melbourne 161kV	Newport - Newport Industrial 161kV	259
Vacherie - Waterford 230kV	Landry - Raceland 230kV	263
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	265
Calico Rock - Melbourne 161kV	Newport AB - Newport Industrial 161kV	280
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	289
Calico Rock - Melbourne 161kV	Cash - Newport AB 161kV	315
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	327
Calico Rock - Melbourne 161kV	Sansouci - Shelby (TVA) 500kV	334
Calico Rock - Melbourne 161kV	Cash - Jonesboro 161kV	344
Calico Rock - Melbourne 161kV	Sage - Guion 161kV	348
Calico Rock - Melbourne 161kV	Newport - Swifton 161kV	353
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	363
Calico Rock - Melbourne 161kV	Mountain View - Guion 161kV	365

Limiting Element	Contingency Element	ATC
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	373
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	385
Bull Shoals - Bull Shoals Dam SPA 161kV	Sansouci - Shelby (TVA) 500kV	399
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	419
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	444
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	445
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	446
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	449
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	454
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	455
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	471
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	489
Harrison East - Summit 161kV	St. Joe - Hilltop 161kV	491
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	505
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	507
Harrison East - Summit 161kV	Everton - St. Joe 161kV	513
Bull Shoals - Bull Shoals Dam SPA 161kV	Independence SES - Keo 500kV	518
Independence SES - Moorefield 161kV	Newport - Newport Industrial 161kV	542
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	545
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Midway AECC 161kV	551
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	552
Bull Shoals - Lead HL 161kV	Bull Shoals - Bull Shoals Dam SPA 161kV	555
Bull Shoals - Bull Shoals Dam SPA 161kV	Sage - Guion 161kV	558
Independence SES - Moorefield 161kV	Newport AB - Newport Industrial 161kV	563
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	565
Melbourne - Sage 161kV	Base Case	572
Harrison East - Summit 161kV	Harrison East - Everton 161kV	576
Bull Shoals - Lead HL 161kV	Bull Shoals - Flippin 161kV	582
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	587
Independence SES - Moorefield 161kV	Cash - Newport AB 161kV	598
Independence SES - Moorefield 161kV	Cash - Jonesboro 161kV	628
Independence SES - Moorefield 161kV	Newport - Swifton 161kV	628
Independence SES - Moorefield 161kV	Sansouci - Shelby (TVA) 500kV	631
Harrison East - Summit 161kV	Bull Shoals - Lead HL 161kV	644

LAF A

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Semere - Scott2 138kV	Habetz - Richard 138kV	19
North Crowley - Scott1 138kV	Habetz - Richard 138kV	25
Semere - Scott2 138kV	North Crowley - Richard 138kV	27
Richard - Scott1 138kV	North Crowley - Richard 138kV	43
North Crowley - Scott1 138kV	Wells 500/230kV transformer	47
Semere - Scott2 138kV	Wells 500/230kV transformer	65

Limiting Element	Contingency Element	ATC
Port Hudson - Thomas 138kV	Webre - Wells 500kV	100
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	138
Vacherie - Waterford 230kV	Landry - Raceland 230kV	187
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	246
Richard - Scott1 138kV	Habetz - Richard 138kV	250
Colonial Academy - Richard 138kV	Habetz - Richard 138kV	258
Richard - Scott1 138kV	Wells 500/230kV transformer	263
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	268
Colonial Academy - Richard 138kV	North Crowley - Richard 138kV	277
Wells 500/230kV transformer	Base Case	278
Colonial Academy - Richard 138kV	Wells 500/230kV transformer	297
Livonia - Wilbert 138kV	Webre - Wells 500kV	329
Greenwood - Humphrey 115kV	Webre - Wells 500kV	345
Gibson - Humphrey 115kV	Webre - Wells 500kV	382
Scott1 - Bonin 138kV	Wells 500/230kV transformer	385
Acadia GSU - Colonial Academy 138kV	Habetz - Richard 138kV	386
North Crowley - Richard 138kV	Habetz - Richard 138kV	387
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	391
North Crowley - Richard 138kV	Wells 500/230kV transformer	395
Duboin - Bayou Warehouse 138kV	Patout - Teche 138kV (CLECO)	397
Acadia GSU - Colonial Academy 138kV	North Crowley - Richard 138kV	410
Scott1 - Bonin 138kV	Habetz - Richard 138kV	419
Acadia GSU - Colonial Academy 138kV	Wells 500/230kV transformer	422
Livonia - Line 642 Tap 138kV	Webre - Wells 500kV	434
Louisiana Station - Thomas 138kV	Richard - Wells 500kV	460
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	477
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	481
Acadia GSU - Scanlan 138kV	Habetz - Richard 138kV	489
Habetz - Richard 138kV	Wells 500/230kV transformer	495
Acadia GSU - Scanlan 138kV	North Crowley - Richard 138kV	519
Acadia GSU - Scanlan 138kV	Wells 500/230kV transformer	523
Louisiana Station - Wilbert 138kV	Webre - Wells 500kV	523
Duboin - Bayou Warehouse 138kV	Hopkins - Patout 138kV (CLECO)	524
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	532
Greenwood - Terrebonne 115kV	Richard - Wells 500kV	566
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	573
Duboin - Bayou Warehouse 138kV	Webre - Wells 500kV	584
Habetz - Richard 138kV	North Crowley - Richard 138kV	594
Gibson - Ramos 138kV	Webre - Wells 500kV	623
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	641
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	641

LAGN

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Landry - Raceland 230kV	224
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	234
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	241
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	429
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	467
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	470
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	520
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	560
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	640
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	645
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	646
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	647

LEPA

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Port Hudson 230/138 transformer 2	Port Hudson 230/138 transformer 1	0
Port Hudson 230/138 transformer 1	Port Hudson 230/138 transformer 2	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	76
Port Hudson - Thomas 138kV	Webre - Wells 500kV	130
Raceland - Coteau 115kV	Terrebonne 230/115kV transformer	159
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	160

OKGE

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Melbourne - Sage 161kV	ANO - Fort Smith 500kV	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	256
Vacherie - Waterford 230kV	Landry - Raceland 230kV	261
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	265
Calico Rock - Melbourne 161kV	ANO - Fort Smith 500kV	292
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	355
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	408
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	428
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	488
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	512
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	544
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	546
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	572
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	586

SMEPA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	278
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	282
Vacherie - Waterford 230kV	Landry - Raceland 230kV	309
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	391
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	420
Florence - South Jackson 115kV	Bogalusa - Adams Creek 500/230kV transformer	428
Florence - South Jackson 115kV	Bogalusa - Franklin 500kV	428
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	464
Fairview - Gypsy 230kV	Front Street - Slidell 230kV	507
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	510
Florence - South Jackson 115kV	New Hebron - Sliver Creek 115kV	545
Florence - South Jackson 115kV	Magee - New Hebron 115kV	548
Florence - South Jackson 115kV	Angie - Adams Creek 230kV	549
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	564
Florence - South Jackson 115kV	Eldorado EHV - Sterlington 500kV	601
Florence - South Jackson 115kV	Franklin - Grand Gulf 500kV	602
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	607
Florence - South Jackson 115kV	South Jackson - Pop Spring 115kV	612
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	648

SOCO

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	264
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	271
Vacherie - Waterford 230kV	Landry - Raceland 230kV	281
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	474
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	497
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	506
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	532
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	551
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	588
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	593

SWPA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0

Limiting Element	Contingency Element	ATC
Lake Conway - Mayflower 115kV	Pleasant Hill 500/161kV transformer	0
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV transformer	0
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	0
Melbourne - Sage 161kV	Dell - Independence SES 500kV	0
Melbourne - Sage 161kV	ANO - Fort Smith 500kV	0
Melbourne - Sage 161kV	Newport - Newport Industrial 161kV	0
Melbourne - Sage 161kV	Newport AB - Newport Industrial 161kV	0
Melbourne - Sage 161kV	Cash - Newport AB 161kV	0
Melbourne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	0
Melbourne - Sage 161kV	Sage - Guion 161kV	0
Melbourne - Sage 161kV	Cash - Jonesboro 161kV	0
Melbourne - Sage 161kV	Mountain View - Guion 161kV	7
Melbourne - Sage 161kV	Newport - Swifton 161kV	10
Calico Rock - Melbourne 161kV	ANO - Fort Smith 500kV	166
Calico Rock - Melbourne 161kV	Dell - Independence SES 500kV	180
Calico Rock - Melbourne 161kV	Newport - Newport Industrial 161kV	202
Calico Rock - Melbourne 161kV	Newport AB - Newport Industrial 161kV	218
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	243
Calico Rock - Melbourne 161kV	Cash - Newport AB 161kV	245
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	257
Vacherie - Waterford 230kV	Landry - Raceland 230kV	263
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	264
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	265
Calico Rock - Melbourne 161kV	Sansouci - Shelby (TVA) 500kV	266
Calico Rock - Melbourne 161kV	Cash - Jonesboro 161kV	268
Calico Rock - Melbourne 161kV	Sage - Guion 161kV	277
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	283
Calico Rock - Melbourne 161kV	Newport - Swifton 161kV	284
Calico Rock - Melbourne 161kV	Mountain View - Guion 161kV	291
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	300
Conway West 161/115kV transformer	Pleasant Hill 500/161kV transformer	308
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	327
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	338
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	350
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	353
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	361
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	366
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	374
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	374
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	375
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	408
Independence SES - Moorefield 161kV	Newport - Newport Industrial 161kV	423
Independence SES - Moorefield 161kV	Newport AB - Newport Industrial 161kV	439
Melbourne - Sage 161kV	Base Case	455
Independence SES - Moorefield 161kV	Cash - Newport AB 161kV	466
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	489
Independence SES - Moorefield 161kV	Cash - Jonesboro 161kV	489

Limiting Element	Contingency Element	ATC
Independence SES - Moorefield 161kV	Sansouci - Shelby (TVA) 500kV	503
Independence SES - Moorefield 161kV	Newport - Swifton 161kV	506
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	507
Independence SES - Moorefield 161kV	Hoxies AECC - Swifton 161 kV	535
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	545
Independence SES - Moorefield 161kV	Hoxies AECC - Walnut Ridge 161kV	546
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	552
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	565
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	587
Russellville South - Dardanelle Dam 161kV	ANO - Fort Smith 500kV	608
Greenbrier - Quitman 161kV	Morrilton East - Pleasant Hill 161kV	630

TVA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	260
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	267
Vacherie - Waterford 230kV	Landry - Raceland 230kV	272
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	447
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	489
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	492
Fairview - Gypsy 230kV	French Settlement - Sorrento 230kV	543
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	548
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	571
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	590

3.3.2 DETAILS OF SCENARIO 2

AECI

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	174
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	208
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	254
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	353
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	400
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	419
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	420
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	427
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	441
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	513
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	528
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	532
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	532
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	538
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	585
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	585
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	593

AEPW

Limiting Element	Contingency Element	ATC
Hartburg - Inland Orange 230kV	Cypress - Hartburg 500kV	0
Inland - McLewis 230kV	Cypress - Hartburg 500kV	0
Helbig - McLewis 230kV	Cypress - Hartburg 500kV	0
Hartburg 500/230kV transformer 1	Cypress - Hartburg 500kV	0
Cypress 500/138kV transformer 1	Cypress 500/230kV transformer	0
Cypress 500/230kV transformer	Cypress 500/138kV transformer 1	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Roy S. Nelson 500/230kV auto	Cypress - Hartburg 500kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Cypress 500/138kV transformer 1	Hartburg 500/230kV transformer 1	0
Cypress 500/138kV transformer 1	Hartburg - Inland Orange 230kV	0

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Cypress 500/138kV transformer 1	Inland - McLewis 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	138
Cypress 500/138kV transformer 1	Helbig - McLewis 230kV	165
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	200
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	204
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	349
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	350
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	397
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	415
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	416
Amelia Bulk - Helbig 230kV	Cypress - Hartburg 500kV	431
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	438
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	505
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	516
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	518
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	518
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	530
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	578
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	578
Cedar Hill - Tamina 138kV	Oak Ridge - Porter 138kV	594
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	618

AMRN

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	183
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	210
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	284
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	353
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	400
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	420
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	421

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	441
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	443
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	515
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	531
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	535
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	535
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	539
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	587
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	587
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	587

CLECO

Limiting Element	Contingency Element	ATC
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
North Crowley - Scott1 138kV	Wells 500/230kV transformer	0
Port Hudson - Thomas 138kV	Webre - Wells 500kV	0
Roy S. Nelson 500/230kV auto	Cypress - Hartburg 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
Louisiana Station - Thomas 138kV	Richard - Wells 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	15
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	148
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	165
Richard - Scott1 138kV	Habetz - Richard 138kV	223
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	263
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	347
Richard - Scott1 138kV	Wells 500/230kV transformer	359
Louisiana Station - Wilbert 138kV	Webre - Wells 500kV	369
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	393
Greenwood - Humphrey 115kV	Webre - Wells 500kV	394
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	416
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	416
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	434
Gibson - Humphrey 115kV	Webre - Wells 500kV	437
Port Hudson - Thomas 138kV	Richard - Wells 500kV	443
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	462
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	462
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	486
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	487
Livonia - Wilbert 138kV	Webre - Wells 500kV	491
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	509
Wells 500/230kV transformer	Base Case	584
Gonzales - Sorrento 138kV	Webre - Wells 500kV	618

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	619
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	619
Greenwood - Terrebonne 115kV	Richard - Wells 500kV	620
Livonia - Line 642 Tap 138kV	Webre - Wells 500kV	622
Eunice - Richard 138kV	Roy S. Nelson - Richard 500kV	639
Hopkins - Segura 138kV (CLECO)	Greenwood - Terrebonne 115kV	640
Vacherie - Waterford 230kV	Tezcuco - Waterford 230kV	646

EES

Limiting Element	Contingency Element	ATC
Hartburg - Inland Orange 230kV	Cypress - Hartburg 500kV	0
Inland - McLewis 230kV	Cypress - Hartburg 500kV	0
Helbig - McLewis 230kV	Cypress - Hartburg 500kV	0
Bevil - Cypress 230kV	Hartburg 500/230kV transformer 1	0
Bevil - Cypress 230kV	Hartburg - Inland Orange 230kV	0
Bevil - Cypress 230kV	Inland - McLewis 230kV	0
Bevil - Cypress 230kV	Helbig - McLewis 230kV	0
Ameila Bulk - Bevil 230kV	Hartburg 500/230kV transformer 1	0
Ameila Bulk - Bevil 230kV	Hartburg - Inland Orange 230kV	0
Cypress 500/138kV transformer 1	Cypress 500/230kV transformer	0
Hartburg 500/230kV transformer 1	Cypress - Hartburg 500kV	0
Ameila Bulk - Bevil 230kV	Inland - McLewis 230kV	0
Ameila Bulk - Bevil 230kV	Helbig - McLewis 230kV	0
Cypress 500/230kV transformer	Cypress 500/138kV transformer 1	0
Hartburg - Inland Orange 230kV	Bevil - Cypress 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Hartburg - Inland Orange 230kV	Ameila Bulk - Bevil 230kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Roy S. Nelson 500/230kV auto	Cypress - Hartburg 500kV	0
Cypress 500/138kV transformer 1	Hartburg 500/230kV transformer 1	0
Cypress 500/138kV transformer 1	Hartburg - Inland Orange 230kV	0
Bevil - Cypress 230kV	Cypress - Lumberton 138kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Inland - McLewis 230kV	Bevil - Cypress 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Bevil - Cypress 230kV	Kountze - Lumberton 138kV	0
Cypress 500/138kV transformer 1	Inland - McLewis 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Bevil - Cypress 230kV	Big Three - Carlyss 230kV	119
Cypress 500/138kV transformer 1	Helbig - McLewis 230kV	125
Inland - McLewis 230kV	Ameila Bulk - Bevil 230kV	156
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	163
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	190

Limiting Element	Contingency Element	ATC
Bevil - Cypress 230kV	Big Three - Sabine 230kV	218
Helbig - McLewis 230kV	Bevil - Cypress 230kV	318
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	343
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	369
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	422
Amelia Bulk - Helbig 230kV	Cypress - Hartburg 500kV	439
Frisco - Tezcucu 230kV ckt 1	Frisco - Tezcucu 230kV ckt 2	439
Frisco - Tezcucu 230kV ckt 2	Frisco - Tezcucu 230kV ckt 1	440
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	464
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	466
Bevil - Cypress 230kV	Cypress - Honey 138kV	481
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	521
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	526
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	546
Ameila Bulk - Bevil 230kV	Cypress - Lumberton 138kV	553
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	562
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	562
Helbig - McLewis 230kV	Ameila Bulk - Bevil 230kV	580
Bevil - Cypress 230kV	Bragg - Honey 138kV	641

EMDE

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Gypsy 230kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	16
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	164
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	206
Harrison East - Omaha 161kV	Green Forest South - PID223TAP 161kV	230
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	234
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	352
Harrison East - Omaha 161kV	Green Forrest - Green Forrest South 161kV	353
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	399
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	406
Harrison East - Omaha 161kV	Berryville - Green Forrest 161kV	407
Frisco - Tezcucu 230kV ckt 1	Frisco - Tezcucu 230kV ckt 2	418
Frisco - Tezcucu 230kV ckt 2	Frisco - Tezcucu 230kV ckt 1	419
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	440
OZD312 - Omaha 161kV	Green Forest South - PID223TAP 161kV	444
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	511
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	525

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	529
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	529
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	536
Melbourne - Sage 161kV	ANO - Fort Smith 500kV	541
Harrison East - Omaha 161kV	Berryville - Osage 161kV	563
OZD312 - Omaha 161kV	Green Forrest - Green Forrest South 161kV	567
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	583
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	583
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	599
OZD312 - Omaha 161kV	Berryville - Green Forrest 161kV	621
Melbourne - Sage 161kV	Newport - Newport Industrial 161kV	644
Melbourne - Sage 161kV	Dell - Independence SES 500kV	647

Lafa

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Port Hudson - Thomas 138kV	Webre - Wells 500kV	0
North Crowley - Scott1 138kV	Habetz - Richard 138kV	0
Richard - Scott1 138kV	North Crowley - Richard 138kV	0
Semere - Scott2 138kV	Habetz - Richard 138kV	0
Semere - Scott2 138kV	North Crowley - Richard 138kV	0
North Crowley - Scott1 138kV	Wells 500/230kV transformer	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Semere - Scott2 138kV	Wells 500/230kV transformer	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
North Crowley - Scott1 138kV	Roy S. Nelson - Richard 500kV	0
Louisiana Station - Thomas 138kV	Richard - Wells 500kV	0
Gonzales - Sorrento 138kV	Louisiana Station - Wilbert 138kV	9
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	15
Semere - Scott2 138kV	Roy S. Nelson - Richard 500kV	21
Gonzales - Sorrento 138kV	Conway - Wyandotte 138kV	36
Gonzales - Sorrento 138kV	Geismar - Wyandotte 138kV	39
Richard - Scott1 138kV	Habetz - Richard 138kV	47
Colonial Academy - Richard 138kV	Habetz - Richard 138kV	81
Richard - Scott1 138kV	Wells 500/230kV transformer	93
Colonial Academy - Richard 138kV	North Crowley - Richard 138kV	94
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	146
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	150
Colonial Academy - Richard 138kV	Wells 500/230kV transformer	152
North Crowley - Richard 138kV	Habetz - Richard 138kV	191
Acadia GSU - Colonial Academy 138kV	Habetz - Richard 138kV	207
Richard - Scott1 138kV	Roy S. Nelson - Richard 500kV	222
Acadia GSU - Colonial Academy 138kV	North Crowley - Richard 138kV	226
North Crowley - Richard 138kV	Wells 500/230kV transformer	231

Limiting Element	Contingency Element	ATC
Wells 500/230kV transformer	Base Case	272
Acadia GSU - Colonial Academy 138kV	Wells 500/230kV transformer	275
Louisiana Station - Wilbert 138kV	Webre - Wells 500kV	293
Sorrento 138/115kV transformer 1	Louisiana Station - Wilbert 138kV	297
Acadia GSU - Scanlan 138kV	Habetz - Richard 138kV	309
Colonial Academy - Richard 138kV	Roy S. Nelson - Richard 500kV	317
Sorrento 138/115kV transformer 1	Conway - Wyandotte 138kV	325
Sorrento 138/115kV transformer 1	Geismar - Wyandotte 138kV	328
Scott1 - Bonin 138kV	Wells 500/230kV transformer	333
Acadia GSU - Scanlan 138kV	North Crowley - Richard 138kV	333
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	344
Scott1 - Bonin 138kV	Habetz - Richard 138kV	346
Port Hudson - Thomas 138kV	Richard - Wells 500kV	351
Greenwood - Humphrey 115kV	Webre - Wells 500kV	359
Habetz - Richard 138kV	Wells 500/230kV transformer	362
Acadia GSU - Scanlan 138kV	Wells 500/230kV transformer	375
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	389
Duboin - Bayou Warehouse 138kV	Patout - Teche 138kV (CLECO)	391
North Crowley - Richard 138kV	Roy S. Nelson - Richard 500kV	393
Gibson - Humphrey 115kV	Webre - Wells 500kV	398
Livonia - Wilbert 138kV	Webre - Wells 500kV	400
Frisco - Tezcucu 230kV ckt 1	Frisco - Tezcucu 230kV ckt 2	409
Frisco - Tezcucu 230kV ckt 2	Frisco - Tezcucu 230kV ckt 1	410
Habetz - Richard 138kV	North Crowley - Richard 138kV	425
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	430
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	450
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	450
Acadia GSU - Colonial Academy 138kV	Roy S. Nelson - Richard 500kV	471
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	476
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	477
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	500
Livonia - Line 642 Tap 138kV	Webre - Wells 500kV	507
Duboin - Bayou Warehouse 138kV	Hopkins - Patout 138kV (CLECO)	519
Cecelia - Semere 138kV	Habetz - Richard 138kV	525
Gonzales - Sorrento 138kV	Webre - Wells 500kV	538
Scott1 - Bonin 138kV	Roy S. Nelson - Richard 500kV	548
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	553
Cecelia - Semere 138kV	North Crowley - Richard 138kV	559
Duboin - Bayou Warehouse 138kV	Webre - Wells 500kV	583
Cecelia - Semere 138kV	Wells 500/230kV transformer	586
Greenwood - Terrebonne 115kV	Richard - Wells 500kV	588
Acadia GSU - Scanlan 138kV	Roy S. Nelson - Richard 500kV	596
Habetz - Richard 138kV	Roy S. Nelson - Richard 500kV	598
Tezcucu - Waterford 230kV	Waterford - Willow Glen 500kV	599
Tezcucu - Waterford 230kV	Waterford 500/230 transformer kV	599
Vacherie - Waterford 230kV	Tezcucu - Waterford 230kV	635
Gibson - Ramos 138kV	Webre - Wells 500kV	639

LAGN

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	14
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	175
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	336
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	381
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	381
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	382
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	420
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	460
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	460
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	464
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	466
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	468
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	488
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	518
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	518

LEPA

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Port Hudson 230/138 transformer 2	Port Hudson 230/138 transformer 1	0
Port Hudson 230/138 transformer 1	Port Hudson 230/138 transformer 2	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Port Hudson - Thomas 138kV	Webre - Wells 500kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Big Cajun 2 - Webre 500kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
Gonzales - Sorrento 138kV	Louisiana Station - Wilbert 138kV	5
Gonzales - Sorrento 138kV	Conway - Wyandotte 138kV	20
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	21
Gonzales - Sorrento 138kV	Geismar - Wyandotte 138kV	21
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	60
Gonzales - Sorrento 138kV	Addis - Wilbert 138kV	72
Louisiana Station - Thomas 138kV	Enjay - Fancy 230kV	98
Louisiana Station - Thomas 138kV	Addis - Big Cajun 1 230kV	136
Louisiana Station - Thomas 138kV	Enjay - Jaguar 230kV	144
Raceland - Coteau 115kV	Terrebonne 230/115kV transformer	163
Sorrento 138/115kV transformer 1	Louisiana Station - Wilbert 138kV	175
Sorrento 138/115kV transformer 1	Conway - Wyandotte 138kV	179

OKGE

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	154
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	204
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	219
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	351
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	386
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	398
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	417
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	418
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	439
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	509
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	522
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	525
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	525
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	534
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	581
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	581
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	605

SMEPA

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Rex Brown W - Rex Brown C 115kV ckt 1	Ray Braswell 500/115kV transformer 1	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Lakeover 500/115kV transformer	Ray Braswell 500/115kV transformer 1	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	17
Lakeover 500/115kV transformer	Ray Braswell 500/230kV transformer 1	150
Lakeover 500/115kV transformer	Ray Braswell 500/230kV transformer 2	150
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	242
Rex Brown W - Rex Brown C 115kV ckt 1	South Jackson 230/115kV transformer 1	250
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	367
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	413
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	449

Limiting Element	Contingency Element	ATC
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	450
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	455
Florence - South Jackson 115kV	Bogalusa - Adams Creek 500/230kV transformer	483
Florence - South Jackson 115kV	Bogalusa - Franklin 500kV	483
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	496
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	496
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	534
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	534
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	557
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	567
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	567
Fairview - Gypsy 230kV	Front Street - Slidell 230kV	582
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	583
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	593
Florence - South Jackson 115kV	New Hebron - Sliver Creek 115kV	603
Florence - South Jackson 115kV	Magee - New Hebron 115kV	607
Lakeover 500/115kV transformer	Northside - Ray Braswell 230kV	610
Florence - South Jackson 115kV	Angie - Adams Creek 230kV	612

SOCO

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	220
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	358
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	403
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	429
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	429
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	445
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	491
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	516
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	526
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	530
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	552
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	552
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	555
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	555
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	560
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	605

SWPA

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	164
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	206
Sterlington 500/115kV transformer 2	Eldorado EHV - Sterlington 500kV	227
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	352
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	399
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	408
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	418
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	419
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	440
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV transformer	447
Melbourne - Sage 161kV	ANO - Fort Smith 500kV	455
Melbourne - Sage 161kV	Newport - Newport Industrial 161kV	502
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	511
Lake Conway - Mayflower 115kV	Pleasant Hill 500/161kV transformer	513
Melbourne - Sage 161kV	Newport AB - Newport Industrial 161kV	519
Melbourne - Sage 161kV	Dell - Independence SES 500kV	523
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	524
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	529
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	529
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	535
Melbourne - Sage 161kV	Cash - Newport AB 161kV	546
Melbourne - Sage 161kV	Cash - Jonesboro 161kV	568
Melbourne - Sage 161kV	Sage - Guion 161kV	571
Melbourne - Sage 161kV	Sansouci - Shelby (TVA) 500kV	573
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	583
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	583
Melbourne - Sage 161kV	Mountain View - Guion 161kV	585
Melbourne - Sage 161kV	Independence SES - Keo 500kV	591
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	599

TVA

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Gypsy - Belle Point 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	0
Vacherie - Waterford 230kV	Landry - Raceland 230kV	0
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	0
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	16
Colonial Welsh - Lake Charles Bulk 138kV	Roy S. Nelson - Richard 500kV	210
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	213
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	354
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	401
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	422
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	423
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	443
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	490
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	518
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	536
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	542
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	542
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	543
Fairview - Gypsy 230kV	Front Street - Michoud 230kV	577
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	591
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	591

3.3.3 DETAILS OF SCENARIO 3

AECI

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	248
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	345
Vacherie - Waterford 230kV	Landry - Raceland 230kV	441
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	487
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	510
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	552
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	647

AEPW

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	245
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	342
Vacherie - Waterford 230kV	Landry - Raceland 230kV	424
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	484
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	507
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	549
'MANSFLD4 138' TO BUS 'IPAPER 4 138'	Contingency of FlowGate 5029 DOLHILL7 345 TO SW SHV 7 345	600
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	638
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	639
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	639

AMRN

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	249
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	345
Vacherie - Waterford 230kV	Landry - Raceland 230kV	445
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	488
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	511
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	553
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	650

CLECO

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	202
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	240
Vacherie - Waterford 230kV	Landry - Raceland 230kV	321
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	348
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	361
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	478
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	502
Port Hudson - Thomas 138kV	Webre - Wells 500kV	514
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	524
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	544
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	572
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	572
Greenwood - Humphrey 115kV	Webre - Wells 500kV	582
Livonia - Wilbert 138kV	Webre - Wells 500kV	603
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	614
Gibson - Humphrey 115kV	Webre - Wells 500kV	621
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	626

EES

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	255
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	351
Vacherie - Waterford 230kV	Landry - Raceland 230kV	412
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	510
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	540

EMDE

Limiting Element	Contingency Element	ATC
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV transformer	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	St. Joe - Hilltop 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Everton - St. Joe 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Harrison East - Everton 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Bull Shoals - Lead HL 161kV	0
Bull Shoals - Bull Shoals Dam SPA 161kV	Clevcov - Lead HL 161kV	0
Calico Rock - Melbourne 161kV	ANO - Fort Smith 500kV	138

Limiting Element	Contingency Element	ATC
Calico Rock - Melbourne 161kV	Dell - Independence SES 500kV	192
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	227
Calico Rock - Melbourne 161kV	Newport - Newport Industrial 161kV	231
Bull Shoals - Bull Shoals Dam SPA 161kV	ANO - Fort Smith 500kV	245
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	247
Calico Rock - Melbourne 161kV	Newport AB - Newport Industrial 161kV	253
Calico Rock - Melbourne 161kV	Cash - Newport AB 161kV	287
Calico Rock - Melbourne 161kV	Sansouci - Shelby (TVA) 500kV	295
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	296
Calico Rock - Melbourne 161kV	Sage - Guion 161kV	314
Calico Rock - Melbourne 161kV	Cash - Jonesboro 161kV	316
Calico Rock - Melbourne 161kV	Newport - Swifton 161kV	323
Calico Rock - Melbourne 161kV	Mountain View - Guion 161kV	331
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	335
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	344
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	356
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	390
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	393
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	403
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	419
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	420
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	423
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	436
Vacherie - Waterford 230kV	Landry - Raceland 230kV	437
Bull Shoals - Bull Shoals Dam SPA 161kV	Sansouci - Shelby (TVA) 500kV	464
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	486
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	486
Bull Shoals - Lead HL 161kV	Bull Shoals - Bull Shoals Dam SPA 161kV	507
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	510
Independence SES - Moorefield 161kV	Newport - Newport Industrial 161kV	526
Bull Shoals - Lead HL 161kV	Bull Shoals - Flippin 161kV	535
Independence SES - Moorefield 161kV	Newport AB - Newport Industrial 161kV	547
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	552
Harrison East - Summit 161kV	St. Joe - Hilltop 161kV	561
Bull Shoals - Bull Shoals Dam SPA 161kV	GD View - Table R 161kV	567
Independence SES - Moorefield 161kV	Cash - Newport AB 161kV	581
Harrison East - Summit 161kV	Everton - St. Joe 161kV	582
Bull Shoals - Bull Shoals Dam SPA 161kV	Independence SES - Keo 500kV	589
Independence SES - Moorefield 161kV	Sansouci - Shelby (TVA) 500kV	603
Bull Shoals - Bull Shoals Dam SPA 161kV	Osage - GD View 161kV	607
Independence SES - Moorefield 161kV	Newport - Swifton 161kV	609
Bull Shoals - Lead HL 161kV	Flippin - Summit 161kV	610
Independence SES - Moorefield 161kV	Cash - Jonesboro 161kV	611
Harrison East - Summit 161kV	Harrison East - Everton 161kV	644
Independence SES - Moorefield 161kV	Hoxies AECC - Swifton 161 kV	644
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	645

Lafa

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	160
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	235
Vacherie - Waterford 230kV	Landry - Raceland 230kV	329
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	339
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	342
Port Hudson - Thomas 138kV	Webre - Wells 500kV	409
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	473
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	497
Livonia - Wilbert 138kV	Webre - Wells 500kV	498
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	538
Greenwood - Humphrey 115kV	Webre - Wells 500kV	553
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	562
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	562
Gibson - Humphrey 115kV	Webre - Wells 500kV	590
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	601
Livonia - Line 642 Tap 138kV	Webre - Wells 500kV	602
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	610
Krotz Spring - Line 642 Tap 138kV	Webre - Wells 500kV	650

LAGN

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	226
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	313
Vacherie - Waterford 230kV	Landry - Raceland 230kV	379
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	465
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	489
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	529
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	575
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	575
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	592
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	599
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	620

LEPA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0

Limiting Element	Contingency Element	ATC
Port Hudson 230/138 transformer 2	Port Hudson 230/138 transformer 1	68
Port Hudson 230/138 transformer 1	Port Hudson 230/138 transformer 2	90
Vacherie - Waterford 230kV	Landry - Raceland 230kV	132
Chauvin - Valentine 115kV	Coteau - Houma 115kV	181

OKGE

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Calico Rock - Melbourne 161kV	ANO - Fort Smith 500kV	203
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	246
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	335
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	343
Vacherie - Waterford 230kV	Landry - Raceland 230kV	433
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	485
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	509
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	551
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	578
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	643
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	647
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	647

SMEPA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	267
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	368
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	485
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	508
Vacherie - Waterford 230kV	Landry - Raceland 230kV	510
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	526
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	570

SOCO

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	254
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	352
Vacherie - Waterford 230kV	Landry - Raceland 230kV	466
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	495

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	515
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	557

SWPA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV transformer	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Calico Rock - Melbourne 161kV	ANO - Fort Smith 500kV	116
Calico Rock - Melbourne 161kV	Dell - Independence SES 500kV	155
Calico Rock - Melbourne 161kV	Newport - Newport Industrial 161kV	180
Calico Rock - Norfolk 161kV	ANO - Fort Smith 500kV	191
Calico Rock - Melbourne 161kV	Newport AB - Newport Industrial 161kV	196
Calico Rock - Melbourne 161kV	Cash - Newport AB 161kV	223
Calico Rock - Melbourne 161kV	Sansouci - Shelby (TVA) 500kV	234
Calico Rock - Norfolk 161kV	Dell - Independence SES 500kV	238
Calico Rock - Melbourne 161kV	Cash - Jonesboro 161kV	246
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	247
Calico Rock - Melbourne 161kV	Sage - Guion 161kV	249
Calico Rock - Melbourne 161kV	Newport - Swifton 161kV	259
Calico Rock - Norfolk 161kV	Newport - Newport Industrial 161kV	260
Calico Rock - Melbourne 161kV	Mountain View - Guion 161kV	262
Calico Rock - Norfolk 161kV	Newport AB - Newport Industrial 161kV	277
Calico Rock - Norfolk 161kV	Cash - Newport AB 161kV	304
Calico Rock - Norfolk 161kV	Sansouci - Shelby (TVA) 500kV	320
Calico Rock - Norfolk 161kV	Cash - Jonesboro 161kV	326
Independence SES - Moorefield 161kV	ANO - Fort Smith 500kV	330
Calico Rock - Norfolk 161kV	Sage - Guion 161kV	332
Calico Rock - Norfolk 161kV	Newport - Swifton 161kV	340
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	344
Calico Rock - Norfolk 161kV	Mountain View - Guion 161kV	345
Independence SES - Moorefield 161kV	Dell - Independence SES 500kV	391
Independence SES - Moorefield 161kV	Newport - Newport Industrial 161kV	409
Independence SES - Moorefield 161kV	Newport AB - Newport Industrial 161kV	425
Vacherie - Waterford 230kV	Landry - Raceland 230kV	437
Independence SES - Moorefield 161kV	Cash - Newport AB 161kV	452
Independence SES - Moorefield 161kV	Cash - Jonesboro 161kV	475
Independence SES - Moorefield 161kV	Sansouci - Shelby (TVA) 500kV	479
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	486
Independence SES - Moorefield 161kV	Newport - Swifton 161kV	489
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	510
Independence SES - Moorefield 161kV	Hoxies AECC - Swifton 161 kV	517
Independence SES - Moorefield 161kV	Hoxies AECC - Walnut Ridge 161kV	528
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	552
Russellville East - Russellville North 161kV	ANO - Fort Smith 500kV	605
Greenbrier - Quitman 161kV	Morrilton East - Pleasant Hill 161kV	625

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	645

TVA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	250
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	347
Vacherie - Waterford 230kV	Landry - Raceland 230kV	452
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	490
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	512
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	555

3.3.4 DETAILS OF SCENARIO 4

AECI

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	25
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	151
Vacherie - Waterford 230kV	Landry - Raceland 230kV	172
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	357
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	373
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	414
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	433
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	450
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	450
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	453
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	461
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	461
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	463
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	463
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	470
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	485
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	494

AEPW

Limiting Element	Contingency Element	ATC
Helbig - McLewis 230kV	Cypress - Hartburg 500kV	0
Cypress 500/138kV transformer 1	Cypress 500/230kV transformer	0
Hartburg - Inland Orange 230kV	Cypress - Hartburg 500kV	0
Cypress 500/230kV transformer	Cypress 500/138kV transformer 1	0
Hartburg 500/230kV transformer 1	Cypress - Hartburg 500kV	0
Inland - McLewis 230kV	Cypress - Hartburg 500kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	25
Vacherie - Waterford 230kV	Landry - Raceland 230kV	165
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	206
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	344
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	355
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	371
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	412
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	436
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	445

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	445
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	451
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	451
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	456
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	456
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	463
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	475
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	487
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	566
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	576
Roy S. Nelson 500/230kV auto	Cypress - Hartburg 500kV	587

AMRN

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	25
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	151
Vacherie - Waterford 230kV	Landry - Raceland 230kV	173
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	358
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	373
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	415
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	452
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	452
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	455
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	457
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	462
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	463
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	465
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	465
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	471
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	488
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	496

CLECO

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	24
Vacherie - Waterford 230kV	Landry - Raceland 230kV	125
Port Hudson - Thomas 138kV	Webre - Wells 500kV	170

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	329
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	350
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	367
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	401
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	404
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	404
Roy S. Nelson 500/230kV auto	Cypress - Hartburg 500kV	437
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	445
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	450
Frisco - Tezcucu 230kV ckt 1	Frisco - Tezcucu 230kV ckt 2	454
Frisco - Tezcucu 230kV ckt 2	Frisco - Tezcucu 230kV ckt 1	454
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	469
Tezcucu - Waterford 230kV	Waterford - Willow Glen 500kV	473
Tezcucu - Waterford 230kV	Waterford 500/230 transformer kV	473
Gonzales - Sorrento 138kV	Webre - Wells 500kV	560
Greenwood - Humphrey 115kV	Webre - Wells 500kV	623

EES

Limiting Element	Contingency Element	ATC
Bevil - Cypress 230kV	Hartburg 500/230kV transformer 1	0
Bevil - Cypress 230kV	Hartburg - Inland Orange 230kV	0
Bevil - Cypress 230kV	Inland - McLewis 230kV	0
Helbig - McLewis 230kV	Cypress - Hartburg 500kV	0
Cypress 500/138kV transformer 1	Cypress 500/230kV transformer	0
Bevil - Cypress 230kV	Helbig - McLewis 230kV	0
Ameila Bulk - Bevil 230kV	Hartburg 500/230kV transformer 1	0
Ameila Bulk - Bevil 230kV	Hartburg - Inland Orange 230kV	0
Ameila Bulk - Bevil 230kV	Inland - McLewis 230kV	0
Ameila Bulk - Bevil 230kV	Helbig - McLewis 230kV	0
Cypress 500/230kV transformer	Cypress 500/138kV transformer 1	0
Hartburg - Inland Orange 230kV	Cypress - Hartburg 500kV	0
Hartburg 500/230kV transformer 1	Cypress - Hartburg 500kV	0
Inland - McLewis 230kV	Cypress - Hartburg 500kV	0
Belle Point - Gypsy 230kV	Tezcucu - Waterford 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Gypsy 230kV	0
Bevil - Cypress 230kV	Cypress - Lumberton 138kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Bevil - Cypress 230kV	Kountze - Lumberton 138kV	0
Bevil - Cypress 230kV	Big Three - Carlyss 230kV	0
Bevil - Cypress 230kV	Big Three - Sabine 230kV	0
Tezcucu - Waterford 230kV	Belle Point - Tezcucu 230kV	14
Belle Point - Tezcucu 230kV	Tezcucu - Waterford 230kV	26
Vacherie - Waterford 230kV	Landry - Raceland 230kV	161
Bevil - Cypress 230kV	Cypress - Honey 138kV	169
Ameila Bulk - Bevil 230kV	Cypress - Lumberton 138kV	245
Bevil - Cypress 230kV	Bragg - Honey 138kV	318
Roy S. Nelson 500/230kV auto	Cypress - Hartburg 500kV	341

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	374
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	395
Ameila Bulk - Bevil 230kV	Kountze - Lumberton 138kV	398
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	399
Ameila Bulk - Bevil 230kV	Big Three - Carlyss 230kV	400
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	423
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	477
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	485
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	485
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	485
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	492
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	492
Ameila Bulk - Bevil 230kV	Big Three - Sabine 230kV	498
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	503
Cypress 500/138kV transformer 1	Hartburg 500/230kV transformer 1	529
Cypress 500/138kV transformer 1	Hartburg - Inland Orange 230kV	532
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	544
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	544
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	625

EMDE

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	25
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	165
Vacherie - Waterford 230kV	Landry - Raceland 230kV	171
Harrison East - Omaha 161kV	Green Forest South - PID223TAP 161kV	210
Harrison East - Omaha 161kV	Green Forrest - Green Forrest South 161kV	336
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	356
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	372
Harrison East - Omaha 161kV	Berryville - Green Forrest 161kV	391
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	408
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	414
OZD312 - Omaha 161kV	Green Forest South - PID223TAP 161kV	424
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	449
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	449
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	449
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	460
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	460
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	460
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	460
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	468
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	483
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	492

Limiting Element	Contingency Element	ATC
Harrison East - Omaha 161kV	Berryville - Osage 161kV	550
OZD312 - Omaha 161kV	Green Forrest - Green Forrest South 161kV	551
OZD312 - Omaha 161kV	Berryville - Green Forrest 161kV	605

Lafa

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	24
Vacherie - Waterford 230kV	Landry - Raceland 230kV	128
Port Hudson - Thomas 138kV	Webre - Wells 500kV	135
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	338
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	346
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	363
Greenwood - Terrebonne 115kV	Webre - Wells 500kV	381
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	397
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	397
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	436
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	438
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	443
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	444
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	446
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	446
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	459
Gonzales - Sorrento 138kV	Webre - Wells 500kV	491
Louisiana Station - Wilbert 138kV	Webre - Wells 500kV	585
Greenwood - Humphrey 115kV	Webre - Wells 500kV	593
Livonia - Wilbert 138kV	Webre - Wells 500kV	602
Gibson - Humphrey 115kV	Webre - Wells 500kV	630

LAGN

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	12
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	23
Vacherie - Waterford 230kV	Landry - Raceland 230kV	148
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	341
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	357
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	389
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	401
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	401

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	406
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	406
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	420
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	420
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	429
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	431
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	452

LEPA

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Port Hudson 230/138 transformer 2	Port Hudson 230/138 transformer 1	0
Port Hudson 230/138 transformer 1	Port Hudson 230/138 transformer 2	0
Louisiana Station - Thomas 138kV	Webre - Wells 500kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Gonzales - Sorrento 138kV	Conway - Wyandotte 138kV	0
Gonzales - Sorrento 138kV	Geismar - Wyandotte 138kV	0
Gonzales - Sorrento 138kV	Addis - Wilbert 138kV	26
Gonzales - Sorrento 138kV	Louisiana Station - Wilbert 138kV	26
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	34
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	39
Vacherie - Waterford 230kV	Landry - Raceland 230kV	52
Louisiana Station - Thomas 138kV	Big Cajun 2 - Webre 500kV	125
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	136
Sorrento 138/115kV transformer 1	Conway - Wyandotte 138kV	152
Sorrento 138/115kV transformer 1	Addis - Wilbert 138kV	153
Sorrento 138/115kV transformer 1	Geismar - Wyandotte 138kV	154
Port Hudson - Thomas 138kV	Webre - Wells 500kV	174
Chauvin - Valentine 115kV	Coteau - Houma 115kV	181

OKGE

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	25
Vacherie - Waterford 230kV	Landry - Raceland 230kV	169
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	178
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	356
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	372
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	384
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	413
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	445
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	447

Limiting Element	Contingency Element	ATC
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	447
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	457
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	457
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	458
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	459
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	466
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	480
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	491
Jennings - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	631
Colonial Welsh TP - Hebert 138kV	Roy S. Nelson - Richard 500kV	643

SMEPA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Lakeover 500/115kV transformer	Ray Braswell 500/115kV transformer 1	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Rex Brown W - Rex Brown C 115kV ckt 1	Ray Braswell 500/115kV transformer 1	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	14
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	27
Lakeover 500/115kV transformer	Ray Braswell 500/230kV transformer 1	91
Lakeover 500/115kV transformer	Ray Braswell 500/230kV transformer 2	91
Vacherie - Waterford 230kV	Landry - Raceland 230kV	199
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	372
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	384
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	427
Rex Brown W - Rex Brown C 115kV ckt 1	South Jackson 230/115kV transformer 1	467
Lakeover 500/115kV transformer	Northside - Ray Braswell 230kV	494
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	495
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	495
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	499
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	499
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	508
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	522
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	522
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	523
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	534
Jackson Miami - Rex Brown 115kV	South Jackson 230/115kV transformer 1	602

SOCO

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	14
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	26

Limiting Element	Contingency Element	ATC
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	169
Vacherie - Waterford 230kV	Landry - Raceland 230kV	182
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	362
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	376
Belle Point - Gypsy 230kV	Front Street - Slidell 230kV	418
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	465
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	465
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	472
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	473
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	478
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	482
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	482
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	482
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	507

SWPA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	25
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	162
Vacherie - Waterford 230kV	Landry - Raceland 230kV	171
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	356
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	372
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	408
Pleasant Hill 500/161kV transformer	ANO 500/161/22kV transformer	413
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	449
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	449
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	449
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	459
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	460
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	460
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	460
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	468
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	482
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	492

TVA

Limiting Element	Contingency Element	ATC
Belle Point - Gypsy 230kV	Tezcuco - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Gypsy 230kV	0
Vacherie - Waterford 230kV	Raceland - Waterford 230kV	0
Tezcuco - Waterford 230kV	Belle Point - Tezcuco 230kV	13
Belle Point - Tezcuco 230kV	Tezcuco - Waterford 230kV	25

Limiting Element	Contingency Element	ATC
Vacherie - Waterford 230kV	Landry - Raceland 230kV	176
McAdams 500/230kV transformer 1	Choctaw - FrenchCamp 500kV (TVA)	189
Belle Point - Gypsy 230kV	Fairview - Gypsy 230kV	359
Belle Point - Gypsy 230kV	Front Street - Michoud 230kV	374
Tezcuco - Waterford 230kV	Waterford - Willow Glen 500kV	455
Tezcuco - Waterford 230kV	Waterford 500/230 transformer kV	455
Frisco - Tezcuco 230kV ckt 1	Frisco - Tezcuco 230kV ckt 2	464
Vacherie - Waterford 230kV	Landry - Terrebonne 230kV	465
Frisco - Tezcuco 230kV ckt 2	Frisco - Tezcuco 230kV ckt 1	465
Vacherie - Waterford 230kV	Waterford - Willow Glen 500kV	471
Vacherie - Waterford 230kV	Waterford 500/230 transformer kV	471
Belle Point - Gypsy 230kV	Gypsy - LaPlace 115kV	474
Belle Point - Gypsy 230kV	Daniel - McKnight 500kV	493
Belle Point - Gypsy 230kV	Belle Point - LaPlace 115kV	499
Hebert - Bayou Cove 138kV	Roy S. Nelson - Richard 500kV	521

APPENDIX A: Approved Projects and Transactions in Study Mode

Year	Approved Future Projects
2010 - 2012 EAI	10CP 2009S EAI Blytheville 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 Melbourne - Sage 161 kV Line Upgrade Line Rev 0.idv 10CP 2010S EAI Parkin to Twist 161 kV Line Trap Rev 0.idv 10CP 2010S EAI Transmission Service (OG&E) Rev 0.idv 10CP 2010S EAI Warren East 115 kV Substation Install Capacitor Bank Rev 1.idv 10CP 2010Z EAI Beebe 115 kV Substation - Install Capacitor Bank Rev 0.idv 10CP 2010Z EAI Donaghey - Conway South 161 kV Rev 1.idv 10CP 2010Z EAI SMEPA (Plum Point) Rev 1.idv 10CP 2011S EAI Osage Creek-Grandview New Line Rev 2.idv 10CP 2012S EAI Albright (HS Hamilton) Substation 2014 Load.idv 10CP 2012S EAI Cofer Road (Crawford) Substation 2014 Load Rev 0.idv 10CP 2011W EAI Transmission Service (Aquila) Rev 0.idv 10CP 2012S EAI Westar Transmission Service Rev 0.idv rovements_PhaseII.idv
2010 - 2014 EGSL	10CP 2009S EGSL Acadia 138 kV Substation capbank.idv 10CP 2010Z EGSL Addis to Cajun 230kV line upgrade.idv 10CP 2011S EGSL Acadiana Area Improvement Project Phase 1 Rev 1.idv 10CP 2011S EGSL Alchem - Monochem 138 kV line upgrade.idv 10CP 2011S EGSL Construct New Youngsville 138 kV Sub (run AAIP 1 first).idv 10CP 2012S EGSL Acadiana Area Improvement Project Phase 2 (run AAIP 1 first).idv 10CP 2012S EGSL Construct new Nelson to Moss Bluff 230 kV line.idv 10CP 2012S EGSL Tejac to Marydale Upgrade 69 kV line.idv 10CP 2012S EGSL ELL Loblolly-Hammond Build 230kV Line.idv 10CP 2014S Gulf Oxygen Load Correction.idv
2010 - 2013 ELL	10CP 2009W ELLN Delhi 115 kV Substation - Add Cap Bank.idv 10CP 2010W ELLN Delhi 115 kV Substation - Add series reactor.idv 10CP 2010Z ELLS Bogalusa to Adams Creek 230 kV No 2.idv 10CP 2010Z ELLS Snakefarm to Kenner 115 kV line upgrade.idv 10CP 2011S ELLN Sarepta Project.idv 10CP 2012S ELLS Bayou LaBoutte Construct new 500-230 kV Substation.idv 10CP 2012 ELLN Ouachita Project Set 2 Run Second.idv 10CP 2013S ELLN Ouachita Projects Set 1 Run First.idv

Year	Approved Future Projects
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
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 228	PID-228	115	
PID 233	PID-233	150	
PID 240	Hot Springs 500kV	650	

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
1694305	Entergy Services (SPO)	15	5/1/2010	5/1/2020
1694306	Entergy Services (SPO)	30	5/1/2010	5/1/2020
73561076	CLECO Power LLC	70	6/1/2010	6/1/2014
73561334	NRG Power Marketing	70	6/1/2010	6/1/2014
73579962	NRG Power Marketing	135	6/1/2010	6/1/2015
73582630	NRG Power Marketing	100	1/1/2012	1/1/2017
73582638	NRG Power Marketing	250	1/1/2012	1/1/2017
73592502	Constellation Energy Commodities Grp.	70	6/1/2010	6/1/2015