



SYSTEM IMPACT STUDY

OASIS Request No: 77650360, 77650362, 77650366,
77650367, 77650369, 77650371 and 77650374

MISO S015 - S021

Prepared for:

NRG Power Marketing

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1. EXECUTIVE SUMMARY

NRG Power Marketing has requested this study to determine the availability of 525MW of yearly network transmission service transfer across Entergy's transmission system from 4/30/2013 to 4/30/2023. The transfer is from TVA to LAGN. This transfer will replace the existing short-term monthly reservations and partial long-term yearly reservations. This report identifies limitations to the requested transfer, if any, along with the requirements and planning estimates to remedy these limitations.

2. STUDY METHOD

The study was performed on the May 2013 - August 2014 monthly models, 2014 – 2023 winter, 2014 – 2023 summer peak seasonal models using PSS/E and MUST software by Power Technologies Incorporated (PTI).

2.1 Data Inputs

- Non-confirmed firm transmission reservations with OASIS numbers prior to this request, which are in the study mode, were also modeled.
- A TRM value that effectively reduced line ratings by 5% was used in the seasonal peak model and 0% TRM used in the monthly model.
- Generation and load in LAGN was scaled to accommodate the transfer.

2.2 Base Case Modifications

- Entergy load was scaled to reflect the latest load forecast.
- Entergy generation was dispatched according to the most recent economic dispatch data.
- Confirmed firm transmission reservations were modeled for the years 2013 – 2023.

Note: In real-time operations, the dynamic nature of these factors may affect the transfer capability as reported in this study.

2.3 Study Criteria

A separate analysis was performed based on the following four (4) study criteria:

2.3.1 Study Criteria 1

- With prior transaction currently in study mode
- With rollovers from existing long term transactions
- With existing confirmed transactions



2.3.2 Study Criteria 2

- With rollovers from existing long term transactions
- With existing confirmed transactions

2.3.3 Study Criteria 3

- With prior transaction currently in study mode
- With rollovers from existing long term transactions
- With existing confirmed transactions
- With approved construction plan upgrades

2.3.4 Study Criteria 4

- With rollovers from existing long term transactions
- With existing confirmed transactions
- With approved construction plan upgrades

2.4 Dependencies

The Available Transfer Capacity (ATC) depends on the following:

- system load
- generation dispatch
- scheduled maintenance of equipment
- configuration of the interconnected system
- power flows in effect among the interconnected systems
- previously confirmed firm reservations on the interface

3. STUDY RESULTS

TABLE 1 – Study Results

OASIS Request	Period	Cases Used	Amount (MW)	ATC Available	Rollover Rights Available
77650360 77650362 77650366 77650367 77650369 77650371 77650374	4/30/2013 – 4/30/2023	May 2013 - August 2014, 2014 – 2023 summer peak 2014 – 2023 winter peak	525	Partially*	YES ⁺

* Transmission service is partially available, 525MW is available from 7/31/2014 - 4/30/2023 pending an Affected System Study from TVA and undesignation of partial long-term yearly service.

The solution sets in Tables 2, 3, 4 and 5 are required to alleviate the identified constraints for service till 7/31/2014. However, due to the solution set, the projects



identified could not be completed prior to 7/31/2014. Transmission service requests for periods requiring analysis with monthly models could contain temporary operating constraints, such as planned transmission facility outages, that may not be present in models beyond the 18 month horizon.

3.1 Criteria 1 Results

Limitations to transfer are shown in Table 2 along with the remediation requirements.

TABLE 2 – Limitations to Transfer

Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
Amite - Gilbert 115kV	Upgrade Amite - Gilbert 115kV conductor	\$37,734,240
Attala - Conehoma 115kV	Upgrade Attala - Conehoma 115kV conductor	\$8,078,070
Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Other Ownership	Affected System
Bernice - Junction City 115kV	Upgrade measuring CT	\$50,000
Bogalusa - Adams Creek 500/230kV transformer	Upgrade Bogalusa - Adams Creek 500/230kV transformer	\$13,290,000
Bogalusa - Barkers Corner (CLECO) 230kV	Upgrade Bogalusa - Barkers Corner (CLECO) 230kV conductor	\$25,183,620
Coly 500/230kV transformer	Upgrade Coly 500/230kV transformer	\$13,290,000
Conehoma - Carthage 115kV	Upgrade Conehoma - Carthage 115kV conductor	\$18,838,820
Downsville - Ruston East (LAGN)115kV	Upgrade Downsville - Ruston East (LAGN) 115kV conductor	\$8,898,890
Downsville - Sterlington2 115kV	Upgrade Downsville - Sterlington2 115kV conductor	\$23,553,530
Eldorado Parnell - Wyatt 115kV	Upgrade Eldorado Parnell - Wyatt 115kV conductor	\$1,961,960
Florence - South Jackson 115kV - Supplemental Upgrade	Supplemental Upgrade / 16 MW	\$1,547,123 ⁺
Franklin - Arlington (SMEPA) 115kV	Upgrade Franklin - Arlington (SMEPA) 115kV conductor	\$6,016,010
Franklin - Ray Braswell 500kV	Upgrade 3 Air Break switches @ Franklin substation Upgrade 1 Circuit Breaker @ Franklin substation	\$2,315,000
Homewood (SMEPA) - Five Points MS (TVA) 161kV	Other Ownership	Affected System
Homewood (SMEPA) - WHITE OAK S (SMEPA)161kV	Other Ownership	Affected System
Lakeover 500/115kV transformer	Upgrade Lakeover 500/115kV transformer	\$10,050,000



Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
Liberty - Gilbert 115kV	Upgrade Liberty - Gilbert 115kV conductor	\$22,783,800
Liberty - Smithdale (SMEPA) 115kV	Upgrade Liberty - Smithdale (SMEPA) 115kV conductor	\$14,714,700
Madisonville - Ramsay 230kV (CLECO)	Other Ownership	Affected System
Magee - Mendenhall 115kV	Upgrade Magee - Mendenhall 115kV conductor	\$10,050,040
Mendenhall - Star 115kV	Upgrade Mendenhall - Star 115kV conductor	\$15,135,120
Minden - Sarepta 115kV	Add new 115 kV circuit breaker @ Minden station (Sarepta Line Bay)	\$475,000
Mount Olive - Vienna-LA 115kV	Upgrade Mount Olive - Vienna-LA 115kV conductor	\$2,512,510
North Selma (SOCO) - AUTAUG (SOCO) 230kV	Other Ownership	Affected System
Pickens - Midway-MS 115kV	Upgrade Pickens - Midway-MS 115kV conductor	\$15,255,240
Ruston East (LAGN) - Vienna 115kV	Upgrade Ruston East - Vienna 115kV conductor Upgrade 3 Air Break switches @ Vienna substation	\$3,173,110
SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	Other Ownership	Affected System
Sebastopol (TVA) - Five Points MS (TVA) 161kV	Other Ownership	Affected System
Smithdale (SMEPA) - Arlington (SMEPA) 115kV	Upgrade Smithdale (SMEPA) - Arlington (SMEPA) 115kV conductor	\$5,935,930
WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Other Ownership	Affected System
TOTAL COST:		\$260,842,713

*Note: The costs identified above are estimates, but do not include an additional +/- 30% for tax gross up, which may be applicable should the customer elect to proceed with the upgrades.

+Financial Payment calculation is based upon most recent construction cost estimates. The cost associated with the identified limiting element has been finalized.

ATC is not available. The costs of the newly-identified upgrades in the table above that do not have a Base or Supplemental classification are based on planning estimates and will be further detailed if the customer elects to proceed to Facilities Study. However, the costs of the upgrades identified as Supplemental Upgrades are based on the best estimates available as of the date of this study. Detailed cost estimates and solutions for the limiting elements will be provided in the Facilities Study. The results of the Facilities Study may be different depending on prior OASIS requests that progress to the Facilities Study phase, as well as identified system upgrade changes to the transmission system.



3.2 Criteria 2 Results

Limitations to transfer are shown in Table 3 along with the remediation requirements.

TABLE 3 – Limitations to Transfer

Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
Amite - Gilbert 115kV	Upgrade Amite - Gilbert 115kV conductor	\$37,734,240
Attala - Conehoma 115kV	Upgrade Attala - Conehoma 115kV conductor	\$8,078,070
Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Other Ownership	Affected System
Bernice - Junction City 115kV	Upgrade measuring CT	\$50,000
Bogalusa - Adams Creek 500/230kV transformer	Upgrade Bogalusa - Adams Creek 500/230kV transformer	\$13,290,000
Bogalusa - Barkers Corner (CLECO) 230kV	Upgrade Bogalusa - Barkers Corner (CLECO) 230kV conductor	\$25,183,620
Coly 500/230kV transformer	Upgrade Coly 500/230kV transformer	\$13,290,000
Conehoma - Carthage 115kV	Upgrade Conehoma - Carthage 115kV conductor	\$18,838,820
Downsville - Ruston East (LAGN) 115kV	Upgrade Downsville - Ruston East (LAGN) 115kV conductor	\$8,898,890
Downsville - Sterlington2 115kV	Upgrade Downsville - Sterlington2 115kV conductor	\$23,553,530
Eldorado Newell - Eldorado Parnell 115kV	Upgrade Eldorado Newell - Eldorado Parnell 115kV conductor	\$890,890
Eldorado Parnell - Wyatt 115kV	Upgrade Eldorado Parnell - Wyatt 115kV conductor	\$1,961,960
Florence - South Jackson 115kV - Supplemental Upgrade	Supplemental Upgrade / 16 MW	\$1,547,123
Franklin - Arlington (SMEPA) 115kV	Upgrade Franklin - Arlington (SMEPA) 115kV conductor	\$6,016,010
Franklin - Mcknight 500kV		
Franklin - Ray Braswell 500kV	Upgrade 3 Air Break switches @ Franklin substation Upgrade 1 Circuit Breaker @ Franklin substation	\$2,315,000
Homewood (SMEPA) - Five Points MS (TVA) 161kV	Other ownership	Affected System
Homewood (SMEPA) - WHITE OAK S (SMEPA) 161kV	Other ownership	Affected System
Jackson Miami - Rex Brown-W 115kV	Upgrade Jackson Miami - Rex Brown-W 115kV conductor	\$1,761,760
Lakeover 500/115kV transformer	Upgrade Lakeover 500/115kV transformer	\$10,050,000



Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
Liberty - Gilbert 115kV	Upgrade Liberty - Gilbert 115kV conductor	\$22,783,800
Liberty - Smithdale (SMEPA) 115kV	Upgrade Liberty - Smithdale (SMEPA) 115kV conductor	\$14,714,700
Madisonville - Ramsay 230kV (CLECO)	Other ownership	Affected System
Magee - Mendenhall 115kV	Upgrade Magee - Mendenhall 115kV conductor	\$10,050,040
Mendenhall - Star 115kV	Upgrade Mendenhall - Star 115kV conductor	\$15,135,120
Minden - Sarepta 115kV	Add new 115 kV circuit breaker @ Minden station (Sarepta Line Bay)	\$475,000
Mount Olive - Vienna-LA 115kV	Upgrade Mount Olive - Vienna-LA 115kV conductor	\$2,512,510
Mount Olive 230/115kV transformer	Upgrade Mount Olive 230/115kV transformer	\$7,860,000
North Selma (SOCO) - AUTAUG (SOCO) 230kV	Other ownership	Affected System
Rilla - Riverton 115kV	Upgrade Rilla - Riverton 115kV conductor	\$19,899,880
Ruston East (LAGN) - Vienna 115kV	Upgrade Ruston East (LAGN) - Vienna 115kV conductor Upgrade 3 Air Break switches @ Vienna substation	\$3,173,110
SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	Other ownership	Affected System
Sebastopol (TVA) - Five Points MS (TVA) 161kV	Other ownership	Affected System
Smithdale (SMEPA) - Arlington (SMEPA) 115kV	Upgrade Smithdale (SMEPA) - Arlington (SMEPA) 115kV conductor	\$5,935,930
WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Other ownership	Affected System
TOTAL COST:		\$277,547,125

*Note: The costs identified above are estimates, but do not include an additional +/- 30% for tax gross up, which may be applicable should the customer elect to proceed with the upgrades.

+Financial Payment calculation is based upon most recent construction cost estimates. The cost associated with the identified limiting element has been finalized.

ATC is not available. The costs of the newly-identified upgrades in the table above that do not have a Base or Supplemental classification are based on planning estimates and will be further detailed if the customer elects to proceed to Facilities Study. However, the costs of the upgrades identified as Supplemental Upgrades are based on the best estimates available as of the date of this study. Detailed cost estimates and solutions for the limiting elements will be provided in the Facilities Study. The results of the Facilities Study may be different depending on prior OASIS requests that progress to the Facilities Study phase, as well as identified system upgrade changes to the transmission system.



3.3 Criteria 3 Results

Limitations to transfer are shown in Table 4 along with the remediation requirements.

TABLE 4 – Limitations to Transfer

Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
Amite - Gilbert 115kV	Upgrade Amite - Gilbert 115kV conductor	\$37,734,240
Attala - Conehoma 115kV	Upgrade Attala - Conehoma 115kV conductor	\$8,078,070
Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Other ownership	Affected System
Bernice - Junction City 115kV	Upgrade measuring CT	\$50,000
Bogalusa - Adams Creek 500/230kV transformer	Upgrade Bogalusa - Adams Creek 500/230kV transformer	\$13,290,000
Bogalusa - Barkers Corner (CLECO) 230kV	Upgrade Bogalusa - Barkers Corner (CLECO) 230kV conductor	\$25,183,620
Coly 500/230kV transformer	Upgrade Coly 500/230kV transformer	\$13,290,000
Conehoma - Carthage 115kV	Upgrade Conehoma - Carthage 115kV conductor	\$18,838,820
Downsville - Ruston East (LAGN) 115kV	Upgrade Downsville - Ruston East (LAGN) 115kV conductor	\$8,898,890
Downsville - Sterlington2 115kV	Upgrade Downsville - Sterlington2 115kV conductor	\$23,553,530
Eldorado Parnell - Wyatt 115kV	Upgrade Eldorado Parnell - Wyatt 115kV conductor	\$1,961,960
Florence - South Jackson 115kV - Supplemental Upgrade	Supplemental Upgrade / 16 MW	\$1,547,123 ⁺
Franklin - Arlington (SMEPA) 115kV	Upgrade Franklin - Arlington (SMEPA) 115kV conductor	\$6,016,010
Franklin - Ray Braswell 500kV	Upgrade 3 Air Break switches @ Franklin substation Upgrade 1 Circuit Breaker @ Franklin substation	\$2,315,000
Homewood (SMEPA) - Five Points MS (TVA) 161kV	Other ownership	Affected System
Homewood (SMEPA) - WHITE OAK S (SMEPA) 161kV	Other ownership	Affected System
Lakeover 500/115kV transformer	Upgrade Lakeover 500/115kV transformer	\$10,050,000
Liberty - Gilbert 115kV	Upgrade Liberty - Gilbert 115kV conductor	\$22,783,800
Liberty - Smithdale (SMEPA)* 115kV	Upgrade Liberty - Smithdale (SMEPA)* 115kV conductor	\$14,714,700
Madisonville - Ramsay 230kV (CLECO)	Other ownership	Affected System
Magee - Mendenhall 115kV	Upgrade Magee - Mendenhall 115kV conductor	\$10,050,040



Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
Mendenhall - Star 115kV	Upgrade Mendenhall - Star 115kV conductor	\$15,135,120
Minden - Sarepta 115kV	Add new 115 kV circuit breaker @ Minden station (Serepta Line Bay)	\$475,000
Mount Olive - Vienna-LA 115kV	Upgrade Mount Olive - Vienna-LA 115kV conductor	\$2,512,510
North Selma (SOCO) - AUTAUG (SOCO) 230kV	Other ownership	Affected System
Pickens - Midway-MS 115kV	Upgrade Pickens - Midway-MS 115kV conductor	\$15,255,240
Ruston East (LAGN) - Vienna 115kV	Upgrade Ruston East - Vienna 115kV conductor Upgrade 3 Air Break switches @ Vienna substation	\$3,173,110
SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	Other ownership	Affected System
Sebastopol (TVA) - Five Points MS (TVA) 161kV	Other ownership	Affected System
Smithdale (SMEPA)* - Arlington (SMEPA) 115kV	Upgrade Smithdale (SMEPA)* - Arlington (SMEPA) 115kV conductor	\$5,935,930
WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Other ownership	Affected System
TOTAL COST:		\$260,842,713

*Note: The costs identified above are estimates, but do not include an additional +/- 30% for tax gross up, which may be applicable should the customer elect to proceed with the upgrades.

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3.4 Criteria 4 Results

Limitations to transfer are shown in Table 5 along with the remediation requirements.

TABLE 5 – Limitations to Transfer



Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
Amite - Gilbert 115kV	Upgrade Amite - Gilbert 115kV conductor	\$37,734,240
Attala - Conehoma 115kV	Upgrade Attala - Conehoma 115kV conductor	\$8,078,070
Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Other ownership	Affected System
Bernice - Junction City 115kV	Upgrade measuring CT	\$50,000
Bogalusa - Adams Creek 500/230kV transformer	Upgrade Bogalusa - Adams Creek 500/230kV transformer	\$13,290,000
Bogalusa - Barkers Corner (CLECO) 230kV	Upgrade Bogalusa - Barkers Corner (CLECO) 230kV conductor	\$25,183,620
Coly 500/230kV transformer	Upgrade Coly 500/230kV transformer	\$13,290,000
Conehoma - Carthage 115kV	Upgrade Conehoma - Carthage 115kV conductor	\$18,838,820
Downsville - Ruston East (LAGN) 115kV	Upgrade Downsville - Ruston East (LAGN) 115kV conductor	\$8,898,890
Downsville - Sterlington2 115kV	Upgrade Downsville - Sterlington2 115kV conductor	\$23,553,530
Eldorado Newell - Eldorado Parnell 115kV	Upgrade Eldorado Newell - Eldorado Parnell 115kV conductor	\$890,890
Eldorado Parnell - Wyatt 115kV	Upgrade Eldorado Parnell - Wyatt 115kV conductor	\$1,961,960
Florence - South Jackson 115kV - Supplemental Upgrade	Supplemental Upgrade / 16	\$1,547,123 ⁺
Franklin - Arlington (SMEPA) 115kV	Upgrade Franklin - Arlington (SMEPA) 115kV conductor	\$6,016,010
Franklin - Mcknight 500kV	Upgrade Franklin - Mcknight 500kV conductor	
Franklin - Ray Braswell 500kV	Upgrade 3 Air Break switches @ Franklin substation Upgrade 1 Circuit Breaker @ Franklin substation	\$2,315,000
Homewood (SMEPA) - Five Points MS (TVA) 161kV	Other ownership	Affected System
Homewood (SMPEA) - WHITE OAK S (SMPEA) 161kV	Other ownership	Affected System
Jackson Miami - Rex Brown-W 115kV	Upgrade Jackson Miami - Rex Brown-W 115kV conductor	\$1,761,760
Lakeover 500/115kV transformer	Upgrade Lakeover 500/115kV transformer conductor	\$10,050,000
Liberty - Gilbert 115kV	Upgrade Liberty - Gilbert 115kV conductor	\$22,783,800
Liberty - Smithdale (SMEPA)* 115kV	Upgrade Liberty - Smithdale (SMEPA)* 115kV conductor	\$14,714,700
Madisonville (CLECO) - Ramsay 230kV (CLECO)	Other ownership	Affected System
Magee - Mendenhall 115kV	Upgrade Magee - Mendenhall 115kV	\$10,050,040



Limiting Element	Required Upgrade / MW Impact	Upgrade Estimate
	conductor	
Magee (TVA) - WHITE OAK (TVA) S 161kV	Other ownership	Affected System
Mendenhall - Star 115kV	Upgrade Mendenhall - Star 115kV conductor	\$15,135,120
Minden - Sarepta 115kV	Add new 115 kV circuit breaker @ Minden station (Sarepta Line Bay)	\$475,000
Mount Olive - Vienna-LA 115kV	Upgrade Mount Olive - Vienna-LA 115kV conductor	\$2,512,510
Mount Olive 230/115kV transformer	Upgrade Mount Olive 230/115kV transformer	\$7,860,000
North Selma (SOCO) - AUTAUG (SOCO) 230kV	Other ownership	Affected System
Rilla - Riverton 115kV	Upgrade Rilla - Riverton 115kV conductor	\$19,899,880
Ruston East (LAGN) - Vienna 115kV	Upgrade Ruston East (LAGN) - Vienna 115kV conductor Upgrade 3 Air Break switches @ Vienna substation	\$3,173,110
SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	Other ownership	Affected System
Sebastopol (TVA) - Five Points MS (TVA) 161kV	Other ownership	Affected System
Smithdale (SMEPA)* - Arlington (SMEPA) 115kV	Upgrade Smithdale (SMEPA)* - Arlington (SMEPA) 115kV conductor	\$5,935,930
WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Other ownership	Affected System
TOTAL COST:		\$277,547,125

*Note: The costs identified above are estimates, but do not include an additional +/- 30% for tax gross up, which may be applicable should the customer elect to proceed with the upgrades.

+Financial Payment calculation is based upon most recent construction cost estimates. The cost associated with the identified limiting element has been finalized.

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4. STUDY DATA

TABLE 6 – Detailed Results - Study Criteria 1



Year	Limiting Element	Contingency Element	ATC (MW)
4/30/2013 - 4/30/2014	Florence - South Jackson 115kV - Supplemental Upgrade	Choctaw MS (TVA) - Clay (TVA) 500kV	- 1883*
	Liberty - Gilbert 115kV	Franklin - McKnight 500kV	-1809
	Amite - Gilbert 115kV	Franklin - McKnight 500kV	-1673
	Downsville - Ruston East 115kV	Coly - McKnight 500kV	-690
	Franklin - ARLGTN# 115kV	Franklin - McKnight 500kV	-670
	North Selma (SOCO) - AUTAUG (SOCO) 230kV	McAdams - Wolf Creek 500kV	-665
	Ruston East - Vienna 115kV	Coly - McKnight 500kV	-573
	Florence - South Jackson 115kV - Supplemental Upgrade	French Camp (TVA) - Choctaw (TVA) 500kV	-527*
	Downsville - Ruston East 115kV	Webre - Wells 500kV	-509
	SMTHD* - ARLGTN# 115kV	Franklin - McKnight 500kV	-501
	Mendenhall - Star 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-428
	Ruston East - Vienna 115kV	Webre - Wells 500kV	-391
	Downsville - Ruston East 115kV	Franklin - McKnight 500kV	-376
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-293
	Liberty - SMITHD* 115kV	Franklin - McKnight 500kV	-288
	Bogalusa - Adams Creek 500/230kV transformer	Coly - McKnight 500kV	-287
	Ruston East - Vienna 115kV	Franklin - McKnight 500kV	-243
	Downsville - Sterlington2 115kV	Coly - McKnight 500kV	-234
	Downsville - Ruston East 115kV	Parnell - Wyatt 115kV	-194
	Bogalusa - Barkers Corner (CLECO) 230kV	Coly - McKnight 500kV	-182
	Downsville - Ruston East 115kV	Franklin - Grand Gulf 500kV	-172
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-172
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	-163
	Minden - Sarepta 115kV	Sarepta - Longwood (AEPW) 345kV	-117
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Parnell 115kV	-113
	Downsville - Ruston East 115kV	Hartburg - Cottonwood1 500kV	-101
	Magee - Mendenhall 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-89
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Upland 115kV	-79



Year	Limiting Element	Contingency Element	ATC (MW)
	Liberty - Gilbert 115kV	Coly - McKnight 500kV	-77
	Minden - Sarepta 115kV	Coly - McKnight 500kV	-74
	Downsville - Ruston East 115kV	Riverbend - Fancy Point 230kV	-69
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	-67
	Downsville - Sterlington2 115kV	Webre - Wells 500kV	-48
	Ruston East - Vienna 115kV	Parnell - Wyatt 115kV	-39
	Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Coly - McKnight 500kV	-21
	Ruston East - Vienna 115kV	Franklin - Grand Gulf 500kV	-2
	Downsville - Ruston East 115kV	El Dorado 500/345kV Transformer	8
	Amite - Gilbert 115kV	Coly - McKnight 500kV	29
	Bogalusa - Franklin 500kV	Coly - McKnight 500kV	30
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Parnell 115kV	42
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Upland 115kV	76
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	77
	Minden - Sarepta 115kV	Dolet Hills 345/230kV transformer (CLECO)	81
	Minden - Sarepta 115kV	Webre - Wells 500kV	93
	Eldorado Parnell - Wyatt 115kV	Downsville - Sterlington2 115kV	112
	Ruston East - Vienna 115kV	Riverbend - Fancy Point 230kV	113
	Mount Olive - Vienna-LA 115kV	Coly - McKnight 500kV	119
	Eldorado Parnell - Wyatt 115kV	Coly - McKnight 500kV	121
	Downsville - Sterlington2 115kV	Franklin - McKnight 500kV	142
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	148
	Ruston East - Vienna 115kV	Eldorado Upland - Junction City 115kV	172
	Coly 500/230kV transformer	Coly - Willow Glen 500kV	176
	Minden - Sarepta 115kV	Downsville - Sterlington2 115kV	189
	Pickens - Midway-MS 115kV	Lakeover - McAdams 500kV	197
	Bernice - Junction City 115kV	Downsville - Sterlington2 115kV	200
	Bernice - Junction City 115kV	Coly - McKnight 500kV	204
	Homewood (SMPEA) - WHITE OAK S (SMPEA) 161kV	McAdams - Wolf Creek 500kV	204
	Eldorado Parnell - Wyatt 115kV	Downsville - Ruston East 115kV	233
	Minden - Sarepta 115kV	Crockett - Grimes 345kV	254



Year	Limiting Element	Contingency Element	ATC (MW)
	SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	McAdams - Wolf Creek 500kV	278
	Eldorado Parnell - Wyatt 115kV	Webre - Wells 500kV	283
	Minden - Sarepta 115kV	Downsville - Ruston East 115kV	285
	Eldorado Parnell - Wyatt 115kV	Ruston East - Vienna 115kV	285
	Mount Olive - Vienna-LA 115kV	Webre - Wells 500kV	289
	Bernice - Junction City 115kV	Downsville - Ruston East 115kV	321
	Madisonville - Ramsay 230kV (CLECO)	Coly - McKnight 500kV	341
	Downsville - Sterlington2 115kV	Eldorado EHV - Mount Olive 500kV	352
	Sebastopol (TVA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	359
	Bernice - Junction City 115kV	Webre - Wells 500kV	366
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	405
	Downsville - Sterlington2 115kV	Parnell - Wyatt 115kV	409
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	449
	Homewood (SMEPA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	512
4/30/2014 - 4/30/2015			
4/30/2015 - 4/30/2016	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	336
4/30/2016 - 4/30/2017	NONE	NONE	525
4/30/2017 - 4/30/2018	NONE	NONE	525
4/30/2018 - 4/30/2019	NONE	NONE	525
4/30/2019 - 4/30/2020	NONE	NONE	525
4/30/2020 - 4/30/2021	NONE	NONE	525



Year	Limiting Element	Contingency Element	ATC (MW)
4/30/2021 - 4/30/2022	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-5942
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-5115
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-2814
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-2096
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	-1276
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CRK FP (TVA) - CRAWFISH CR 230kV (TVA)	-1032
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	LONGLEAF (SOCO) - FARLEY (SOCO) 500kV	-916
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	CRAWFISH CR (TVA) - CLOUDLANDGA (TVA) 230kV	-914
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	RACCOON CK (SOCO) - LONGLEAF (SOCO) 500kV	-903
4/30/2022 - 4/30/2023	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	KENSNGTN GA (TVA) - CLOUDLANDGA (TVA) 230kV	-839
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-5768
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-4944
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-2645
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-1940
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	-1099
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CRK FP (TVA) - CRAWFISH CR 230kV (TVA)	-843



Year	Limiting Element	Contingency Element	ATC (MW)
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	CRAWFISH CR (TVA) - CLOUDLANDGA (TVA) 230kV	-725
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	LONGLEAF (SOCO) - FARLEY (SOCO) 500kV	-700
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	RACCOON CK (SOCO) - LONGLEAF (SOCO) 500kV	-687
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	KENSNGTN GA (TVA) - CLOUDLANDGA (TVA) 230kV	-649
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-5760
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-4941
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-2640
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-1946
4/30/2023	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	-1108
-			
4/30/2024	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CRK FP (TVA) - CRAWFISH CR 230kV (TVA)	-854
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	CRAWFISH CR (TVA) - CLOUDLANDGA (TVA) 230kV	-736
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	LONGLEAF (SOCO) - FARLEY (SOCO) 500kV	-715
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	RACCOON CK (SOCO) - LONGLEAF (SOCO) 500kV	-702
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	KENSNGTN GA (TVA) - CLOUDLANDGA (TVA) 230kV	-661



TABLE 7 – Detailed Results - Study Criteria 2

Year	Limiting Element	Contingency Element	ATC (MW)
4/30/2013 - 4/30/2014	Liberty - Gilbert 115kV	Franklin - McKnight 500kV	-2616
	Amite - Gilbert 115kV	Franklin - McKnight 500kV	-2480
	Florence - South Jackson 115kV - Supplemental Upgrade	Choctaw MS (TVA) - Clay (TVA) 500kV	-2254
	Franklin - ARLGTN# 115kV	Franklin - McKnight 500kV	-1345
	SMTHD* - ARLGTN# 115kV	Franklin - McKnight 500kV	-1176
	Liberty - SMITHD* 115kV	Franklin - McKnight 500kV	-963
	Downsville - Ruston East 115kV	Coly - McKnight 500kV	-949
	Florence - South Jackson 115kV - Supplemental Upgrade	French Camp (TVA) - Choctaw (TVA) 500kV	-898
	Bogalusa - Adams Creek 500/230kV transformer	Coly - McKnight 500kV	-896
	Ruston East - Vienna 115kV	Coly - McKnight 500kV	-832
	North Selma (SOCO) - AUTAUG (SOCO) 230kV	McAdams - Wolf Creek 500kV	-823
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-806
	Mendenhall - Star 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-800
	Bogalusa - Barkers Corner (CLECO) 230kV	Coly - McKnight 500kV	-758
	Liberty - Gilbert 115kV	Coly - McKnight 500kV	-644
	Downsville - Ruston East 115kV	Franklin - McKnight 500kV	-622
	Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Coly - McKnight 500kV	-598
	Bogalusa - Franklin 500kV	Coly - McKnight 500kV	-580
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	-580
	Amite - Gilbert 115kV	Coly - McKnight 500kV	-538
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-509
	Downsville - Sterlington2 115kV	Coly - McKnight 500kV	-493
	Ruston East - Vienna 115kV	Franklin - McKnight 500kV	-489
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	-486
	Magee - Mendenhall 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-460
	Downsville - Ruston East 115kV	Webre - Wells 500kV	-442



Year	Limiting Element	Contingency Element	ATC (MW)
	Downsville - Ruston East 115kV	Franklin - Grand Gulf 500kV	-381
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	-379
	Downsville - Ruston East 115kV	Hartburg - Cottonwood1 500kV	-373
	Downsville - Ruston East 115kV	Parnell - Wyatt 115kV	-356
	Ruston East - Vienna 115kV	Webre - Wells 500kV	-324
	Minden - Sarepta 115kV	Sarepta - Longwood (AEPW) 345kV	-307
	Coly 500/230kV transformer	Coly - Willow Glen 500kV	-279
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Parnell 115kV	-275
	Minden - Sarepta 115kV	Coly - McKnight 500kV	-242
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Upland 115kV	-241
	Downsville - Ruston East 115kV	Riverbend - Fancy Point 230kV	-240
	Madisonville - Ramsay 230kV (CLECO)	Coly - McKnight 500kV	-236
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-223
	Ruston East - Vienna 115kV	Franklin - Grand Gulf 500kV	-211
	Ruston East - Vienna 115kV	Parnell - Wyatt 115kV	-202
	Downsville - Ruston East 115kV	El Dorado 500/345kV Transformer	-186
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-183
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	-124
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Parnell 115kV	-120
	Bogalusa - Barkers Corner (CLECO) 230kV	Franklin - McKnight 500kV	-116
	Downsville - Sterlington2 115kV	Franklin - McKnight 500kV	-104
	Mount Olive - Vienna-LA 115kV	Coly - McKnight 500kV	-102
	Eldorado Parnell - Wyatt 115kV	Coly - McKnight 500kV	-93
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Upland 115kV	-86
	Ruston East - Vienna 115kV	Hartburg - Cottonwood1 500kV	-83
	Ruston East - Vienna 115kV	Riverbend - Fancy Point 230kV	-58



Year	Limiting Element	Contingency Element	ATC (MW)
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-57
	Eldorado Parnell - Wyatt 115kV	Downsville - Sterlington2 115kV	-18
	Ruston East - Vienna 115kV	El Dorado 500/345kV Transformer	-18
	Bernice - Junction City 115kV	Coly - McKnight 500kV	-10
	Downsville - Sterlington2 115kV	Webre - Wells 500kV	19
	Minden - Sarepta 115kV	Dolet Hills 345/230kV transformer (CLECO)	49
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	60
	Bernice - Junction City 115kV	Downsville - Sterlington2 115kV	69
	SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	McAdams - Wolf Creek 500kV	74
	Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Franklin - McKnight 500kV	84
	Eldorado Parnell - Wyatt 115kV	Downsville - Ruston East 115kV	103
	Minden - Sarepta 115kV	Downsville - Sterlington2 115kV	115
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	117
	Homewood (SMPEA) - WHITE OAK S (SMPEA)161kV	McAdams - Wolf Creek 500kV	127
	Downsville - Sterlington2 115kV	Eldorado EHV - Mount Olive 500kV	136
	Eldorado Parnell - Wyatt 115kV	Ruston East - Vienna 115kV	155
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	159
	Rilla - Riverton 115kV	Coly - McKnight 500kV	179
	Bernice - Junction City 115kV	Downsville - Ruston East 115kV	190
	Mount Olive 230/115kV transformer	Coly - McKnight 500kV	202
	Minden - Sarepta 115kV	Downsville - Ruston East 115kV	212
	Minden - Sarepta 115kV	Franklin - McKnight 500kV	219
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	222
	Minden - Sarepta 115kV	Webre - Wells 500kV	227
	SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	McAdams - Wolf Creek 500kV	232
	Minden - Sarepta 115kV	Crockett - Grimes 345kV	234
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	246



Year	Limiting Element	Contingency Element	ATC (MW)
	Downsville - Sterlington2 115kV	Parnell - Wyatt 115kV	247
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	247
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	258
	Sebastopol (TVA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	269
	Eldorado Newell - Eldorado Parnell 115kV	Coly - McKnight 500kV	273
	Downsville - Sterlington2 115kV	Franklin - Grand Gulf 500kV	284
	Downsville - Ruston East 115kV	Base Case	292
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	313
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	315
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	323
	Downsville - Sterlington2 115kV	Eldorado Newell - Eldorado Parnell 115kV	328
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	336
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	348
	Jackson Miami - Rex Brown-W 115kV	Lakeover - Ray Braswell 500kV	352
	Downsville - Sterlington2 115kV	Eldorado Newell - Eldorado Upland 115kV	363
	Homewood (SMPEA) - WHITE OAK S (SMPEA)161kV	McAdams - Wolf Creek 500kV	368
	Eldorado Newell - Eldorado Parnell 115kV	Downsville - Sterlington2 115kV	368
	Eldorado Parnell - Wyatt 115kV	Webre - Wells 500kV	368
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	416
	Homewood (SMEPA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	422
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	427
	Lakeover - Rex Brown C 115kV ckt 1	Lakeover - Ray Braswell 500kV	476
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	479
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	480
	Homewood (SMPEA) - WHITE OAK S (SMPEA)161kV	Lakeover - McAdams 500kV	484



Year	Limiting Element	Contingency Element	ATC (MW)
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	489
	Lakeover - Rex Brown E 115kV ckt 2	Lakeover - Ray Braswell 500kV	490
	Florence - South Jackson 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	509
	Franklin - Mcknight 500kV	Riverbend - Fancy Point 230kV	509
4/30/2014 - 4/30/2015	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-240
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	-59
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-45
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	-27
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	281
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	349
	Bogalusa - Barkers Corner (CLECO) 230kV	Franklin - McKnight 500kV	351
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	358
	Huntsville - LINE 558 TAP 138 kV	Hartburg - Mount Olive 500kV	383
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	423
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	382
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	533
	4/30/2015 - 4/30/2016	NONE	NONE
4/30/2016 - 4/30/2017	NONE	NONE	525
4/30/2017 - 4/30/2018	NONE	NONE	525
4/30/2018 - 4/30/2019	NONE	NONE	525
4/30/2019 - 4/30/2020	NONE	NONE	525
4/30/2020 - 4/30/2021	NONE	NONE	525



Year	Limiting Element	Contingency Element	ATC (MW)
4/30/2021 - 4/30/2022	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-4297
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-2758
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-322
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-287
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	129
4/30/2022 - 4/30/2023	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-4131
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-2593
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-158
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-137
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	296
4/30/2023 - 4/30/2024	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-4117
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-2587
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-151
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-139
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	295



TABLE 8 – Detailed Results - Study Criteria 3

Year	Limiting Element	Contingency Element	ATC (MW)
4/30/2013 - 4/30/2014	Florence - South Jackson 115kV - Supplemental Upgrade	Choctaw MS (TVA) - Clay (TVA) 500kV	-1879
	Liberty - Gilbert 115kV	Franklin - McKnight 500kV	-1815
	Amite - Gilbert 115kV	Franklin - McKnight 500kV	-1679
	Downsville - Ruston East 115kV	Coly - McKnight 500kV	-692
	Franklin - ARLGTN# 115kV	Franklin - McKnight 500kV	-677
	North Selma (SOCO) - AUTAUG (SOCO) 230kV	McAdams - Wolf Creek 500kV	-671
	Ruston East - Vienna 115kV	Coly - McKnight 500kV	-575
	Florence - South Jackson 115kV - Supplemental Upgrade	French Camp (TVA) - Choctaw (TVA) 500kV	-523
	Downsville - Ruston East 115kV	Webre - Wells 500kV	-509
	SMTHD* - ARLGTN# 115kV	Franklin - McKnight 500kV	-507
	Mendenhall - Star 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-424
	Ruston East - Vienna 115kV	Webre - Wells 500kV	-390
	Downsville - Ruston East 115kV	Franklin - McKnight 500kV	-379
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-298
	Liberty - SMITHD* 115kV	Franklin - McKnight 500kV	-294
	Bogalusa - Adams Creek 500/230kV transformer	Coly - McKnight 500kV	-283
	Ruston East - Vienna 115kV	Franklin - McKnight 500kV	-246
	Downsville - Sterlington2 115kV	Coly - McKnight 500kV	-236
	Downsville - Ruston East 115kV	Parnell - Wyatt 115kV	-201
	Bogalusa - Barkers Corner (CLECO) 230kV	Coly - McKnight 500kV	-179
	Downsville - Ruston East 115kV	Franklin - Grand Gulf 500kV	-177
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	-168
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-167
	Minden - Sarepta 115kV	Sarepta - Longwood (AEPW) 345kV	-123
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Parnell 115kV	-120
	Downsville - Ruston East 115kV	Hartburg - Cottonwood1 500kV	-110
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Upland 115kV	-85



Year	Limiting Element	Contingency Element	ATC (MW)
	Magee - Mendenhall 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-84
	Downsville - Ruston East 115kV	Riverbend - Fancy Point 230kV	-75
	Minden - Sarepta 115kV	Coly - McKnight 500kV	-74
	Liberty - Gilbert 115kV	Coly - McKnight 500kV	-72
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	-63
	Downsville - Sterlington2 115kV	Webre - Wells 500kV	-47
	Ruston East - Vienna 115kV	Parnell - Wyatt 115kV	-46
	Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Coly - McKnight 500kV	-18
	Ruston East - Vienna 115kV	Franklin - Grand Gulf 500kV	-7
	Downsville - Ruston East 115kV	El Dorado 500/345kV Transformer	2
	Bogalusa - Franklin 500kV	Coly - McKnight 500kV	34
	Amite - Gilbert 115kV	Coly - McKnight 500kV	34
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Parnell 115kV	35
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Upland 115kV	70
	Minden - Sarepta 115kV	Dolet Hills 345/230kV transformer (CLECO)	74
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	77
	Minden - Sarepta 115kV	Webre - Wells 500kV	96
	Eldorado Parnell - Wyatt 115kV	Downsville - Sterlington2 115kV	102
	Ruston East - Vienna 115kV	Riverbend - Fancy Point 230kV	107
	Eldorado Parnell - Wyatt 115kV	Coly - McKnight 500kV	115
	Mount Olive - Vienna-LA 115kV	Coly - McKnight 500kV	117
	Downsville - Sterlington2 115kV	Franklin - McKnight 500kV	139
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	154
	Ruston East - Vienna 115kV	Eldorado Upland - Junction City 115kV	166
	Coly 500/230kV transformer	Coly - Willow Glen 500kV	181
	Minden - Sarepta 115kV	Downsville - Sterlington2 115kV	185
	Bernice - Junction City 115kV	Downsville - Sterlington2 115kV	189
	Pickens - Midway-MS 115kV	Lakeover - McAdams 500kV	192
	Bernice - Junction City 115kV	Coly - McKnight 500kV	198
	Homewood (SMPEA) - WHITE OAK S (SMPEA) 161kV	McAdams - Wolf Creek 500kV	200
	Eldorado Parnell - Wyatt 115kV	Downsville - Ruston East 115kV	223



Year	Limiting Element	Contingency Element	ATC (MW)
	Minden - Sarepta 115kV	Crockett - Grimes 345kV	251
	SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	McAdams - Wolf Creek 500kV	272
	Eldorado Parnell - Wyatt 115kV	Webre - Wells 500kV	279
	Minden - Sarepta 115kV	Downsville - Ruston East 115kV	281
	Mount Olive - Vienna-LA 115kV	Webre - Wells 500kV	290
	Bernice - Junction City 115kV	Downsville - Ruston East 115kV	311
	Minden - Sarepta 115kV	Ruston East - Vienna 115kV	323
	Madisonville - Ramsay 230kV (CLECO)	Coly - McKnight 500kV	344
	Downsville - Sterlington2 115kV	Eldorado EHV - Mount Olive 500kV	347
	Sebastopol (TVA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	355
	Minden - Sarepta 115kV	Franklin - McKnight 500kV	356
	Bernice - Junction City 115kV	Webre - Wells 500kV	363
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	400
	Downsville - Sterlington2 115kV	Parnell - Wyatt 115kV	402
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	449
	Homewood (SMEPA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	508
4/30/2014			
-			
4/30/2015	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	336
4/30/2015			
-			
4/30/2016	NONE	NONE	525
4/30/2016			
-			
4/30/2017	NONE	NONE	525
4/30/2017			
-			
4/30/2018	NONE	NONE	525
4/30/2018			
-			
4/30/2019	NONE	NONE	525
4/30/2019			
-			
4/30/2020	NONE	NONE	525



Year	Limiting Element	Contingency Element	ATC (MW)	
4/30/2020 -				
4/30/2021	NONE	NONE	525	
4/30/2021 -	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-6056	
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-5214	
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-2875	
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-2183	
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	-1406	
	4/30/2022	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CRK FP (TVA) - CRAWFISH CR 230kV (TVA)	-1144
		WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	LONGLEAF (SOCO) - FARLEY (SOCO) 500kV	-1056
		WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	RACCOON CK (SOCO) - LONGLEAF (SOCO) 500kV	-1043
WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV		CRAWFISH CR (TVA) - CLOUDLANDGA (TVA) 230kV	-1026	
4/30/2022 -	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	KENSNGTN GA (TVA) - CLOUDLANDGA (TVA) 230kV	-951	
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-5882	
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-5043	
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-2705	
	4/30/2023	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-2027
WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV		Union MS (TVA) - Browns Ferry NP (TVA) 500kV	-1231	



Year	Limiting Element	Contingency Element	ATC (MW)
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CRK FP (TVA) - CRAWFISH CR 230kV (TVA)	-956
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	LONGLEAF (SOCO) - FARLEY (SOCO) 500kV	-841
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	CRAWFISH CR (TVA) - CLOUDLANDGA (TVA) 230kV	-838
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	RACCOON CK (SOCO) - LONGLEAF (SOCO) 500kV	-828
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	KENSNGTN GA (TVA) - CLOUDLANDGA (TVA) 230kV	-763
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-5875
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-5040
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-2699
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-2033
4/30/2023	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	-1241
-			
4/30/2024	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CRK FP (TVA) - CRAWFISH CR 230kV (TVA)	-967
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	LONGLEAF (SOCO) - FARLEY (SOCO) 500kV	-857
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	CRAWFISH CR (TVA) - CLOUDLANDGA (TVA) 230kV	-850
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	RACCOON CK (SOCO) - LONGLEAF (SOCO) 500kV	-843
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	KENSNGTN GA (TVA) - CLOUDLANDGA (TVA) 230kV	-774



TABLE 9 – Detailed Results - Study Criteria 4

Year	Limiting Element	Contingency Element	ATC (MW)
4/30/2013 - 4/30/2014	Liberty - Gilbert 115kV	Franklin - McKnight 500kV	-2623
	Amite - Gilbert 115kV	Franklin - McKnight 500kV	-2487
	Florence - South Jackson 115kV - Supplemental Upgrade	Choctaw MS (TVA) - Clay (TVA) 500kV	-2251
	Franklin - ARLGTN# 115kV	Franklin - McKnight 500kV	-1354
	SMTHD* - ARLGTN# 115kV	Franklin - McKnight 500kV	-1184
	Liberty - SMITHD* 115kV	Franklin - McKnight 500kV	-971
	Downsville - Ruston East 115kV	Coly - McKnight 500kV	-952
	Florence - South Jackson 115kV - Supplemental Upgrade	French Camp (TVA) - Choctaw (TVA) 500kV	-894
	Bogalusa - Adams Creek 500/230kV transformer	Coly - McKnight 500kV	-893
	Ruston East - Vienna 115kV	Coly - McKnight 500kV	-835
	North Selma (SOCO) - AUTAUG (SOCO) 230kV	McAdams - Wolf Creek 500kV	-830
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-802
	Mendenhall - Star 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-796
	Bogalusa - Barkers Corner (CLECO) 230kV	Coly - McKnight 500kV	-757
	Liberty - Gilbert 115kV	Coly - McKnight 500kV	-640
	Downsville - Ruston East 115kV	Franklin - McKnight 500kV	-625
	Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Coly - McKnight 500kV	-596
	Bogalusa - Franklin 500kV	Coly - McKnight 500kV	-577
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	-576
	Amite - Gilbert 115kV	Coly - McKnight 500kV	-534
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-513
	Downsville - Sterlington2 115kV	Coly - McKnight 500kV	-496
	Ruston East - Vienna 115kV	Franklin - McKnight 500kV	-492
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	-482
	Magee - Mendenhall 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	-456
	Downsville - Ruston East 115kV	Webre - Wells 500kV	-443



Year	Limiting Element	Contingency Element	ATC (MW)
	Downsville - Ruston East 115kV	Franklin - Grand Gulf 500kV	-386
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	-384
	Downsville - Ruston East 115kV	Hartburg - Cottonwood1 500kV	-382
	Downsville - Ruston East 115kV	Parnell - Wyatt 115kV	-363
	Ruston East - Vienna 115kV	Webre - Wells 500kV	-324
	Minden - Sarepta 115kV	Sarepta - Longwood (AEPW) 345kV	-312
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Parnell 115kV	-282
	Coly 500/230kV transformer	Coly - Willow Glen 500kV	-276
	Downsville - Ruston East 115kV	Eldorado Newell - Eldorado Upland 115kV	-247
	Downsville - Ruston East 115kV	Riverbend - Fancy Point 230kV	-246
	Minden - Sarepta 115kV	Coly - McKnight 500kV	-241
	Madisonville - Ramsay 230kV (CLECO)	Coly - McKnight 500kV	-234
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-223
	Ruston East - Vienna 115kV	Franklin - Grand Gulf 500kV	-215
	Ruston East - Vienna 115kV	Parnell - Wyatt 115kV	-208
	Downsville - Ruston East 115kV	El Dorado 500/345kV Transformer	-192
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-185
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Parnell 115kV	-127
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	-125
	Bogalusa - Barkers Corner (CLECO) 230kV	Franklin - McKnight 500kV	-113
	Downsville - Sterlington2 115kV	Franklin - McKnight 500kV	-107
	Mount Olive - Vienna-LA 115kV	Coly - McKnight 500kV	-105
	Eldorado Parnell - Wyatt 115kV	Coly - McKnight 500kV	-99
	Ruston East - Vienna 115kV	Eldorado Newell - Eldorado Upland 115kV	-92
	Ruston East - Vienna 115kV	Hartburg - Cottonwood1 500kV	-92
	Ruston East - Vienna 115kV	Riverbend - Fancy Point 230kV	-64



Year	Limiting Element	Contingency Element	ATC (MW)
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-42
	Eldorado Parnell - Wyatt 115kV	Downsville - Sterlington2 115kV	-29
	Ruston East - Vienna 115kV	El Dorado 500/345kV Transformer	-24
	Bernice - Junction City 115kV	Coly - McKnight 500kV	-16
	Downsville - Sterlington2 115kV	Webre - Wells 500kV	19
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	26
	Minden - Sarepta 115kV	Dolet Hills 345/230kV transformer (CLECO)	43
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	58
	Bernice - Junction City 115kV	Downsville - Sterlington2 115kV	59
	SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	McAdams - Wolf Creek 500kV	67
	Barkers Corner (CLECO) - Ramsay (CLECO) 230kV	Franklin - McKnight 500kV	87
	Eldorado Parnell - Wyatt 115kV	Downsville - Ruston East 115kV	93
	Minden - Sarepta 115kV	Downsville - Sterlington2 115kV	112
	Homewood (SMPEA) - WHITE OAK S (SMPEA)161kV	McAdams - Wolf Creek 500kV	123
	Downsville - Sterlington2 115kV	Eldorado EHV - Mount Olive 500kV	131
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	147
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	160
	Rilla - Riverton 115kV	Coly - McKnight 500kV	179
	Bernice - Junction City 115kV	Downsville - Ruston East 115kV	180
	Mount Olive 230/115kV transformer	Coly - McKnight 500kV	200
	Minden - Sarepta 115kV	Downsville - Ruston East 115kV	208
	Minden - Sarepta 115kV	Franklin - McKnight 500kV	219
	SAMSON (SOCO) - SHOAL RV (SOCO) 230kV	McAdams - Wolf Creek 500kV	227
	Minden - Sarepta 115kV	Webre - Wells 500kV	229
	Minden - Sarepta 115kV	Crockett - Grimes 345kV	232
	Downsville - Sterlington2 115kV	Parnell - Wyatt 115kV	240
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	247



Year	Limiting Element	Contingency Element	ATC (MW)
	Minden - Sarepta 115kV	Ruston East - Vienna 115kV	250
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	253
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	261
	Sebastopol (TVA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	265
	Eldorado Newell - Eldorado Parnell 115kV	Coly - McKnight 500kV	266
	Downsville - Sterlington2 115kV	Franklin - Grand Gulf 500kV	279
	Downsville - Ruston East 115kV	Base Case	286
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	311
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	316
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	325
	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	333
	Jackson Miami - Rex Brown-W 115kV	Lakeover - Ray Braswell 500kV	352
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	363
	Homewood (SMPEA) - WHITE OAK S (SMPEA)161kV	McAdams - Wolf Creek 500kV	367
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	415
	Homewood (SMEPA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	417
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	425
	Lakeover - Rex Brown C 115kV ckt 1	Lakeover - Ray Braswell 500kV	469
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	476
	Homewood (SMPEA) - WHITE OAK S (SMPEA)161kV	Lakeover - McAdams 500kV	479
	Lakeover - Rex Brown E 115kV ckt 2	Lakeover - Ray Braswell 500kV	483
	Magee (TVA) - WHITE OAK S 161kV	McAdams - Wolf Creek 500kV	494
	Franklin - Mcknight 500kV	Riverbend - Fancy Point 230kV	503
	Florence - South Jackson 115kV	Choctaw MS (TVA) - Clay (TVA) 500kV	514
	Sebastopol (TVA) - Five Points MS (TVA) 161kV	McAdams - Wolf Creek 500kV	518



Year	Limiting Element	Contingency Element	ATC (MW)
4/30/2014 - 4/30/2015	Downsville - Ruston East 115kV	Eldorado EHV - Mount Olive 500kV	-244
	Ruston East - Vienna 115kV	Eldorado EHV - Mount Olive 500kV	-62
	Bogalusa - Adams Creek 500/230kV transformer	Franklin - McKnight 500kV	-38
	Attala - Conehoma 115kV	Lakeover - McAdams 500kV	-27
	Franklin - Ray Braswell 500kV	Franklin - Grand Gulf 500kV	312
	Conehoma - Carthage 115kV	Lakeover - McAdams 500kV	349
	Bogalusa - Barkers Corner (CLECO) 230kV	Franklin - McKnight 500kV	356
	Bogalusa - Franklin 500kV	Franklin - McKnight 500kV	364
	Huntsville - LINE 558 TAP 138 kV	Hartburg - Mount Olive 500kV	380
	Lakeover 500/115kV transformer	Lakeover - Ray Braswell 500kV	419
4/30/2015 - 4/30/2016	NONE	NONE	525
4/30/2016 - 4/30/2017	NONE	NONE	525
4/30/2017 - 4/30/2018	NONE	NONE	525
4/30/2018 - 4/30/2019	NONE	NONE	525
4/30/2019 - 4/30/2020	NONE	NONE	525
4/30/2020 - 4/30/2021	NONE	NONE	525
4/30/2021 - 4/30/2022	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-4416
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-2863
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-389



Year	Limiting Element	Contingency Element	ATC (MW)
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-379
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	-7
4/30/2022 - 4/30/2023	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-4251
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-2699
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-229
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-224
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	159
4/30/2023 - 4/30/2024	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	MAURY (TVA) - BR FERRY NP (TVA) 500kV	-4238
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	WID CREK FP (TVA) 500/161kV	-2693
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	BILLINGSS (TVA) - AUTAUSS (TVA) 500kV	-231
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	E POINT AL (TVA) - BELLEF NP2 (TVA) 500kV	-216
	WID CRK FP (TVA) - SEQUOYAH NP (TVA) 500 kV	Union MS (TVA) - Browns Ferry NP (TVA) 500kV	157



TABLE 10 – Confirmed Reservations

OASIS		PSE	MW	Begin	End
569011		Entergy Services, Inc. (EMO)	242	3/1/2000	1/1/2014
759196		Entergy Services, Inc. (EMO)	143	1/1/2001	1/1/2021
759294		East Texas Electric Cooperative	31	1/1/2001	1/1/2018
1096986		Tennessee Valley Authority	73	9/1/2003	9/1/2013
1099991	renewal	City Water & Light, Jonesboro	83	1/1/2010	1/1/2016
1099997	renewal	City Water & Light, Jonesboro	168	1/1/2010	1/1/2016
1105665		Entergy Services, Inc. (EMO)	236	2/1/2003	2/1/2016
1105666		Entergy Services, Inc. (EMO)	91	2/1/2003	2/1/2027
1105668		Entergy Services, Inc. (EMO)	77	2/1/2003	2/1/2027
1126821		Entergy Services, Inc. (EMO)	101	5/1/2004	5/1/2029
1151106		Entergy Services, Inc. (EMO)	20	6/1/2010	6/1/2013
1168061		Entergy Services, Inc. (EMO)	80	8/1/2004	2/1/2028
1168408		Entergy Services, Inc. (EMO)	247	8/1/2004	2/1/2028
1289686	undesignation	Entergy Services, Inc. (EMO)	1	6/1/2007	6/1/2030
1294132		Entergy Services, Inc. (EMO)	526	1/1/2006	1/1/2035
1309874	renewal	East Texas Electric Cooperative	75	1/1/2009	1/1/2017
1309875	renewal	East Texas Electric Cooperative	50	1/1/2009	1/1/2017
1309876	renewal	East Texas Electric Cooperative	50	1/1/2009	1/1/2017
1356328		Muni Energy Agency of Miss	40	6/1/2010	6/1/2040
1373643		City of Conway	25	3/1/2010	3/1/2040
1375299		Louisiana Generating LLC	11	3/1/2006	3/1/2013
1375559		CLECO Power LLC (Gen)	675	12/1/2006	12/1/2016
1380484		Osceola Light & Power	9	9/1/2009	9/1/2039
1383852		Arkansas Electric Cooperative Corp.	550	1/1/2007	1/1/2017
1385158		NRG Power Marketing	13	10/1/2007	10/1/2027
1387272		CLECO Power LLC (Gen)	11	4/1/2006	4/1/2016
1422708	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2007	1/1/2027
1425495		East Texas Electric Cooperative	50	3/1/2010	3/1/2045
1442453		NRG Power Marketing	320	6/1/2007	6/1/2026
1449495		Entergy Services, Inc. (EMO)	322	6/1/2009	6/1/2059
1456636		CLECO Power Marketing	10	10/1/2007	10/1/2012
1460876		Aquila Networks-MPS	75	3/1/2009	3/1/2029
1460878		Aquila Networks-MPS	75	3/1/2009	3/1/2029
1460879		Aquila Networks-MPS	75	3/1/2009	3/1/2029
1460881		Aquila Networks-MPS	75	3/1/2009	3/1/2029
1460898		Louisiana Energy & Power Authority	3	1/1/2009	1/1/2030
1460899		Louisiana Energy & Power Authority	5	1/1/2009	1/1/2030
1461442		Louisiana Energy & Power Authority	12	1/1/2009	1/1/2030
1464028		East Texas Electric Cooperative	168	1/1/2010	1/1/2040
1470484		City of West Memphis	20	1/1/2011	1/1/2041



OASIS		PSE	MW	Begin	End
1470811		East Texas Electric Cooperative	186	1/1/2010	1/1/2040
1477069		Entergy Services, Inc. (EMO)	10	11/1/2007	11/1/2037
1480164		Entergy Services, Inc. (EMO)	725	1/1/2005	9/1/2033
1495910		Southwestern Electric	78	5/1/2010	5/1/2013
1498122		Constellation Energy Commodities Grp.	30	4/1/2012	4/1/2042
1498129		City of Conway	50	4/1/2012	4/1/2042
1499610		NRG Power Marketing	300	1/1/2008	1/1/2013
1500582	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2008	1/1/2038
1500584	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2008	1/1/2038
1514102		East Texas Electric Cooperative	29	1/1/2008	1/1/2017
1514104		East Texas Electric Cooperative	35	1/1/2008	1/1/2017
1514105		East Texas Electric Cooperative	1	1/1/2008	1/1/2017
1517005	renewal	NRG Power Marketing	103	1/1/2011	1/1/2026
1525820	renewal	NRG Power Marketing	3	7/1/2009	7/1/2014
1527816		MOPEP	6	10/1/2007	10/1/2012
1530287		Empire District Electric	50	3/1/2010	3/1/2030
1530288		Empire District Electric	50	3/1/2010	3/1/2030
1546108	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2011	1/1/2051
1552148	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2009	1/1/2014
1555717	undesignation	East Texas Electric Cooperative	1	1/1/2010	1/1/2015
1555718		Entergy Services, Inc. (EMO)	158	1/1/2010	1/1/2015
1557220	undesignation	Entergy Services, Inc. (EMO)	1	7/1/2009	7/1/2018
1557221		Entergy Services, Inc. (EMO)	520	7/1/2009	7/1/2018
1557602	undesignation	East Texas Electric Cooperative	1	1/1/2009	1/1/2017
1564001	renewal	Louisiana Energy & Power Authority	6	4/1/2009	4/1/2014
1564356	renewal	NRG Power Marketing	5	9/1/2009	9/1/2025
1566302		NRG Power Marketing	300	1/1/2008	1/1/2013
1585225	renewal	City of Prescott	22	4/1/2009	4/1/2039
1585239	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2009	1/1/2013
1585240	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2009	1/1/2013
1598022	renewal	NRG Power Marketing	103	7/1/2010	7/1/2015
1598291		Entergy Services, Inc. (EMO)	206	6/1/2012	6/1/2042
1598885	renewal	Morgan Stanley Commodities Group	102	1/1/2009	1/1/2014
1598886	renewal	Morgan Stanley Commodities Group	102	1/1/2009	1/1/2014
1601111		Constellation Energy Commodities Grp.	5	1/1/2010	1/1/2015
1615102	renewal	MidAmerican Energy, Inc.	50	1/1/2009	1/1/2014
1615103	renewal	MidAmerican Energy, Inc.	50	1/1/2009	1/1/2014
1615105	renewal	MidAmerican Energy, Inc.	50	1/1/2009	1/1/2014
1615108	renewal	MidAmerican Energy, Inc.	50	1/1/2009	1/1/2014
1629240	renewal	MidAmerican Energy, Inc.	7	3/1/2009	3/1/2014
1630065	renewal	NRG Power Marketing	40	1/1/2010	1/1/2015
1632265	undesignation	Merrill Lynch Commodities	1	4/1/2009	4/1/2014



OASIS		PSE	MW	Begin	End
1633701		NRG Power Marketing	20	1/1/2010	1/1/2019
1633702		NRG Power Marketing	20	1/1/2010	1/1/2016
1633703		NRG Power Marketing	20	1/1/2010	1/1/2016
1639337		Entergy Services, Inc. (EMO)	587	3/1/2009	1/1/2019
1639338		Entergy Services, Inc. (EMO)	103	3/1/2009	1/1/2019
1639339		Entergy Services, Inc. (EMO)	32	3/1/2009	1/1/2019
1639340		Entergy Services, Inc. (EMO)	122	3/1/2009	1/1/2019
1639341		Entergy Services, Inc. (EMO)	134	3/1/2009	1/1/2019
1640629		CLECO Power Marketing	58	5/1/2001	1/1/2021
1640630		CLECO Power Marketing	32	5/1/2001	1/1/2021
1643983	renewal	NRG Power Marketing	300	1/1/2010	1/1/2015
1643984	renewal	NRG Power Marketing	100	9/1/2010	9/1/2015
1644155		CLECO Power Marketing	9	4/1/2009	5/1/2016
1644215	renewal	NRG Power Marketing	83	1/1/2010	1/1/2025
1644908		CLECO Power Marketing	41	5/1/2009	5/1/2018
1648049	undesignation	Entergy Services, Inc. (EMO)	1	6/1/2010	6/1/2013
1648050		Entergy Services, Inc. (EMO)	100	6/1/2010	6/1/2013
1648591	undesignation	Entergy Services, Inc. (EMO)	1	6/1/2010	6/1/2012
1648592		Entergy Services, Inc. (EMO)	485	6/1/2010	6/1/2012
1655366		Missouri Joint Municipal Electric Utility Comm.	6	10/1/2009	10/1/2014
1658087	undesignation	Entergy Services, Inc. (EMO)	1	6/1/2012	6/1/2042
1658088		South Miss Electric Power Assoc.	21	6/1/2012	6/1/2042
1659388		NRG Power Marketing	25	1/1/2011	1/1/2016
1665288		Merrill Lynch Commodities	15	1/1/2011	1/1/2012
1665492	renewal	Merrill Lynch Commodities	16	11/1/2009	11/1/2014
1665493	renewal	Merrill Lynch Commodities	4	11/1/2009	11/1/2014
1665899		Ameren Energy, Inc.	75	9/1/2009	9/1/2014
1668165		Entergy Services, Inc. (SPO)	600	1/1/2013	1/1/2043
1669126	renewal	Cargill Power Markets, LLC	103	1/1/2011	1/1/2016
1669127	renewal	Cargill Power Markets, LLC	103	1/1/2011	1/1/2016
1676674		NRG Power Marketing	100	1/1/2011	1/1/2020
1676675		NRG Power Marketing	100	1/1/2011	1/1/2020
1677749	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2013	1/1/2015
1679179	renewal	NRG Power Marketing	100	1/1/2011	1/1/2016
1679181	renewal	NRG Power Marketing	100	1/1/2011	1/1/2016
1685869	renewal	Muni Energy Agcy of Miss	19	1/1/2010	1/1/2018
1689499		Missouri Joint Municipal Electric Utility Comm.	3	9/1/2009	9/1/2014
1690613		NRG Power Marketing	25	1/1/2011	1/1/2016
1694305		Entergy Services, Inc. (EMO)	15	5/1/2010	5/1/2020
1694306		Entergy Services, Inc. (EMO)	30	5/1/2010	5/1/2020
73454527		Hope Water & Light	10	10/1/2009	10/1/2032
73457918		South Miss Electric Power Assoc.	180	10/1/2009	10/1/2014



OASIS		PSE	MW	Begin	End
73573797	renewal	American Electric Power	45	1/1/2011	1/1/2029
73586299	renewal	American Electric Power	6	1/1/2011	1/1/2029
73595626		NRG Power Marketing	13	1/1/2012	1/1/2017
73724303		Arkansas Electric Cooperative Corp.	104	1/1/2010	1/1/2015
73741113	renewal	Entergy Services, Inc. (EMO)	150	5/1/2010	5/1/2020
73741122	renewal	Entergy Services, Inc. (EMO)	135	5/1/2010	5/1/2020
73820650		MOWR	5	3/1/2010	3/1/2040
73884547		MOWR	35	8/1/2010	8/1/2040
73884558		MOWR	40	8/1/2010	8/1/2040
73942862	renewal	Muni Energy Agcy of Miss	13	6/1/2010	6/1/2015
73970673		Cargill Power Markets, LLC	40	1/1/2011	1/1/2016
73987480		South Miss Electric Power Assoc.	100	5/1/2010	5/1/2040
73987507		South Miss Electric Power Assoc.	180	6/1/2010	6/1/2015
73990804		South Miss Electric Power Assoc.	100	5/1/2010	5/1/2040
74001787		NRG Power Marketing	100	1/1/2011	1/1/2016
74001895		NRG Power Marketing	100	1/1/2011	1/1/2016
74001897		NRG Power Marketing	22	1/1/2011	1/1/2016
74001904		NRG Power Marketing	28	1/1/2011	1/1/2016
74001930		NRG Power Marketing	42	8/1/2006	8/1/2036
74001931		NRG Power Marketing	60	3/1/2010	3/1/2040
74001934		NRG Power Marketing	60	4/1/2012	4/1/2042
74233619	deferral	WRGS	15	4/1/2012	4/1/2017
74233670	undesignation	Entergy Services, Inc. (EMO)	1	8/1/2012	1/1/2038
74236787		NRG Power Marketing	75	6/1/2012	6/1/2017
74236794		NRG Power Marketing	100	6/1/2012	6/1/2017
74236798		NRG Power Marketing	100	6/1/2012	6/1/2017
74305315		NRG Power Marketing	10	1/1/2014	1/1/2017
74305339		NRG Power Marketing	10	1/1/2013	1/1/2023
74356639		NRG Power Marketing	103	1/1/2011	1/1/2016
74356652		NRG Power Marketing	206	6/1/2012	6/1/2017
74356666		NRG Power Marketing	50	1/1/2013	1/1/2014
74370625		Entergy Services, Inc. (EMO)	10	7/1/2010	7/1/2012
74408208	renewal	Louisiana Energy & Power Authority	45	9/1/2010	9/1/2015
74408225	renewal	Louisiana Energy & Power Authority	45	9/1/2010	9/1/2015
74514903		Entergy Services, Inc. (EMO)	20	6/1/2013	6/1/2029
74514911		Entergy Services, Inc. (EMO)	101	6/1/2013	6/1/2029
74691007		NRG Power Marketing	10/60	1/1/2013	1/1/2018
74728415		Brazos Electric Coop	100	1/1/2012	1/1/2017
74758974	deferral	Entergy Services, Inc. (EMO)	804	5/1/2013	5/1/2058
74777205	renewal	NRG Power Marketing	300	1/1/2013	1/1/2033
74777208	renewal	NRG Power Marketing	300	1/1/2015	1/1/2035
74789476	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2012	1/1/2016



OASIS		PSE	MW	Begin	End
74829975	renewal	CLECO Power LLC (Gen)	35	1/1/2011	1/1/2016
74835023		American Electric Power	103	1/1/2012	1/1/2017
74881866	renewal	NRG Power Marketing	8	3/1/2011	3/1/2021
74899933		Entergy Services, Inc. (EMO)	322	5/1/2013	2/1/2041
74899954	undesignation	Entergy Services, Inc. (EMO)	1	2/1/2012	2/1/2014
74899956		Entergy Services, Inc. (EMO)	100	2/1/2012	2/1/2014
74899968	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2013	1/1/2015
74899969	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2012	1/1/2015
74899972	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2015	1/1/2045
74899974	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2015	1/1/2045
74899976	undesignation	Entergy Services, Inc. (EMO)	1	1/1/2015	1/1/2045
74899980		Entergy Services, Inc. (EMO)	570	1/1/2015	1/1/2045
74899988	undesignation	Entergy Services, Inc. (EMO)	1	6/1/2012	6/1/2022
74899989		Entergy Services, Inc. (EMO)	485	6/1/2012	6/1/2022
74901827	undesignation	Entergy Services, Inc. (EMO)	1	2/1/2011	2/1/2041
74958042		NRG Power Marketing	34	1/1/2006	1/1/2036
74958045		NRG Power Marketing	34	1/1/2006	1/1/2036
74958047		NRG Power Marketing	17	1/1/2006	1/1/2036
74958048		NRG Power Marketing	17	1/1/2006	1/1/2036
75207302	renewal	Entergy Services, Inc. (EMO)	1	7/1/2011	7/1/2016
75259845		SMEPA	2	4/1/2012	1/1/2040
75265640	renewal	South Miss Electric Power Assoc.	75	6/1/2011	6/1/2016
75299243		AECI	103	1/1/2012	1/1/2017
75342276		Cargill Power Markets	202	12/1/2012	12/1/2017
75342281		Cargill Power Markets	202	12/1/2012	12/1/2017
75460486		MOWR	20	4/1/2013	4/1/2037
75495258	renewal	NRG Power Marketing	13	1/1/2017	1/1/2019
75564309		ETEC	50	5/1/2014	5/1/2044
75826033		CLECO Power Marketing	600	4/1/2014	4/1/2033
75831107		Muni Energy Agcy of Miss	20	6/1/2013	6/1/2041
76120007	renewal	CLECO Power Marketing	10	10/1/2012	10/1/2017
76234876	undesignation	Entergy Services (SPO)	1	6/1/2012	6/1/2042
76234879		Entergy Services (SPO)	194	6/1/2012	6/1/2042
76234889		Entergy Services (SPO)	256	1/1/2016	1/1/2043
76234897		Entergy Services (SPO)	35	1/1/2016	1/1/2043
76234922	undesignation	Entergy Services (SPO)	1	5/1/2013	5/1/2042
76234951		Entergy Services (SPO)	5	5/1/2013	5/1/2042
76238089		Entergy Services (SPO)	20	1/1/2014	1/1/2043
76280552	undesignation	Entergy Services, Inc. (EMO)	1	6/1/2012	6/1/2042
76280558	undesignation	Entergy Services, Inc. (EMO)	1	5/1/2013	5/1/2042
76449800		Arkansas Electric Cooperative Corp.	250	1/1/2012	1/1/2013
			275	1/1/2013	1/1/2014



OASIS		PSE	MW	Begin	End
			300	1/1/2014	1/1/2015
			320	1/1/2015	1/1/2017
76449828		Arkansas Electric Cooperative Corp.	78	1/1/2012	1/1/2013
			80	1/1/2013	1/1/2014
			82	1/1/2014	1/1/2015
			84	1/1/2015	1/1/2016
			86	1/1/2016	1/1/2017
76513126	undesignation	Constellation Energy Commodities Group	1	1/1/2012	1/1/2017
76513148	undesignation	Constellation Energy Commodities Group	1	1/1/2012	1/1/2017
76513215	renewal	EWOM	60	11/1/2009	11/1/2014
76513304	renewal	EWOM	60	11/1/2014	11/1/2019
76533177		EWOM	25	4/1/2009	4/1/2014
76533260	renewal	EWOM	25	4/1/2014	4/1/2019
76744580	deferral	South Miss Electric Power Assoc.	2	1/1/2013	1/1/2040
76583976		Arkansas Electric Cooperative Corp (AECC)	660	9/1/2012	9/1/2017
76583995		Arkansas Electric Cooperative Corp (AECC)	200	9/1/2012	9/1/2017
76767669		NRG Power Marketing	103	6/1/2013	6/1/2017
76794317	undesignation	NRG Power Marketing	1	1/1/2013	1/1/2025
76794321		NRG Power Marketing	10	1/1/2013	1/1/2025
76523750		SRMP	180	6/1/2012	6/1/2018
76523753		SRMP	30	6/1/2012	6/1/2016
76523754		EWOM	45	6/1/2012	6/1/2016
76975184		Entergy Services (SPO)	28	1/1/2013	1/1/2033
77025124		Entergy Services (SPO)	495	1/1/2014	1/1/2017
77176931		NRG Power Marketing	525	6/1/2014	6/1/2015
			287	6/1/2015	6/1/2016
			238	6/1/2016	6/1/2017
			0	6/1/2017	6/1/2018
			525	6/1/2018	6/1/2024
77347222		Entergy Services (SPO)	495	1/1/2017	6/1/2017
76794133	undesignation	NRG Power Marketing	1	1/1/2014	1/1/2022
76794134	undesignation	NRG Power Marketing	1	1/1/2014	1/1/2022
76794135	undesignation	NRG Power Marketing	1	1/1/2014	1/1/2022
76794140		NRG Power Marketing	309	1/1/2014	1/1/2019
76794150	undesignation	NRG Power Marketing	1	1/1/2014	1/1/2019
76794151		NRG Power Marketing	309	1/1/2014	1/1/2019



TABLE 11 - Pre-Order 888 Transactions

OASIS		PSE	MW	Begin	End
1332606		East Texas Electric Cooperative	55	1/1/2006	1/1/2017
1412155	Replaced by 76120479	Entergy Services, Inc. (EMO)	1718	1/1/2007	1/1/2038
1412156		Entergy Services, Inc. (EMO)	741	1/1/2007	1/1/2038
1412158		Entergy Services, Inc. (EMO)	1867	1/1/2007	1/1/2038
1412160		Entergy Services, Inc. (EMO)	1142	1/1/2007	1/1/2038
1412161		Entergy Services, Inc. (EMO)	59	1/1/2007	1/1/2038
1412162		Entergy Services, Inc. (EMO)	148	1/1/2007	1/1/2038
1412163	Replaced by 76292988	Entergy Services, Inc. (EMO)	194	1/1/2007	1/1/2038
1412164		Entergy Services, Inc. (EMO)	1157	1/1/2007	1/1/2038
1412165		Entergy Services, Inc. (EMO)	1219	1/1/2007	1/1/2038
1412166		Entergy Services, Inc. (EMO)	683	1/1/2007	1/1/2038
1412167		Entergy Services, Inc. (EMO)	140	1/1/2007	1/1/2038
1412168		Entergy Services, Inc. (EMO)	456	1/1/2007	1/1/2038
1412169		Entergy Services, Inc. (EMO)	739	1/1/2007	1/1/2038
1412170	Replaced by 76292992	Entergy Services, Inc. (EMO)	183	1/1/2007	1/1/2038
1412171		Entergy Services, Inc. (EMO)	64	1/1/2007	1/1/2038
1412172		Entergy Services, Inc. (EMO)	870	1/1/2007	1/1/2038
1412173		Entergy Services, Inc. (EMO)	129	1/1/2007	1/1/2038
1412174	Replaced by 76292990	Entergy Services, Inc. (EMO)	140	1/1/2007	1/1/2038
1412175		Entergy Services, Inc. (EMO)	130	1/1/2007	1/1/2038



1412176		Entergy Services, Inc. (EMO)	65	1/1/2007	1/1/2038
1412177	Replaced by 1528115	Entergy Services, Inc. (EMO)	947	1/1/2007	1/1/2038
1412178		Entergy Services, Inc. (EMO)	61	1/1/2007	1/1/2038
1412179		Entergy Services, Inc. (EMO)	304	1/1/2007	1/1/2038
1412180	Replaced by 76292993	Entergy Services, Inc. (EMO)	351	1/1/2007	1/1/2038
1412181		Entergy Services, Inc. (EMO)	692	1/1/2007	1/1/2038
1412182	Replaced by 1528116	Entergy Services, Inc. (EMO)	1641	1/1/2007	1/1/2038
1412183		Entergy Services, Inc. (EMO)	433	1/1/2007	1/1/2038
1412184		Entergy Services, Inc. (EMO)	1946	1/1/2007	1/1/2038
1412185		Entergy Services, Inc. (EMO)	946	1/1/2007	1/1/2038
1412186	Replaced by 1528114	Entergy Services, Inc. (EMO)	1233	1/1/2007	1/1/2028
1498278		Entergy Services, Inc. (EMO)	75	8/1/2007	1/1/2017
1498281		Entergy Services, Inc. (EMO)	86	8/1/2007	1/1/2017
1498283		Entergy Services, Inc. (EMO)	68	8/1/2007	1/1/2017
1498284		Entergy Services, Inc. (EMO)	78	8/1/2007	1/1/2017
1498285		Entergy Services, Inc. (EMO)	11	8/1/2007	1/1/2044
1498286		Entergy Services, Inc. (EMO)	69	8/1/2007	1/1/2044
1498287		Entergy Services, Inc. (EMO)	14	8/1/2007	1/1/2044



OASIS		PSE	MW	Begin	End
1528114	Replaces 1412186	Entergy Services, Inc. (EMO)	1523	1/1/2008	1/1/2038
1528115	Replaces 1412177	Entergy Services, Inc. (EMO)	1039	1/1/2008	1/1/2038
1528116	Replaces 1412182	Entergy Services, Inc. (EMO)	1834	1/1/2008	1/1/2038
76120467	Renewal for 1412178	Entergy Services, inc. (EMO)	61	1/1/2038	1/1/2045
76120472	Renewal for 1412172	Entergy Services, inc. (EMO)	870	1/1/2038	1/1/2045
76120479	Replaces 1412155	Entergy Services, Inc. (EMO)	1738	1/1/2012	1/1/2045
76234797	Renewal for 1412163	Entergy Services, Inc. (EMO)	194	1/1/2038	1/1/2043
76234817	Renewal for 1412174	Entergy Services, Inc. (EMO)	140	1/1/2038	1/1/2043
76234827	Renewal for 1412170	Entergy Services, Inc. (EMO)	183	1/1/2038	1/1/2043
76234836	Renewal for 1412180	Entergy Services, Inc. (EMO)	351	1/1/2038	1/1/2043
76292988	Replaces 1412163	Entergy Services, Inc. (EMO)	190	1/1/2012	1/1/2043
76292990	Replaces 1412174	Entergy Services, Inc. (EMO)	144	1/1/2012	1/1/2043
76292992	Replaces 1412170	Entergy Services, Inc. (EMO)	210	1/1/2012	1/1/2043
76292993	Replaces 1412180	Entergy Services, Inc. (EMO)	324	1/1/2012	1/1/2043
76234876		Entergy Services (SPO)	1	6/1/2012	6/1/2042
76234879		Entergy Services (SPO)	194	6/1/2012	6/1/2042
76234904		Entergy Services (SPO)	1	6/1/2012	6/1/2042
76234916		Entergy Services (SPO)	140	6/1/2012	6/1/2042
76234922		Entergy Services (SPO)	1	5/1/2013	5/1/2042
76234951		Entergy Services (SPO)	5	5/1/2013	5/1/2042
76234980		Entergy Services (SPO)	1	1/1/2014	1/1/2043
76234993 76235000 76235003		Entergy Services (SPO)	475	1/1/2014	1/1/2043
76238089		Entergy Services (SPO)	20	1/1/2014	1/1/2043
76528782		Constellation Energy Commodities Grp	5	7/1/1998	7/1/2027



TABLE 12 - Study Queue

OASIS		PSE	MW	Begin	End
74846159		AEPM	65	1/1/2015	1/1/2020
75206836		ETEC	125	1/1/2015	1/1/2020
76744419		SMEPA	280	1/1/2014	1/1/2025
76902738		CPWM	80	1/1/2013	1/1/2018
77272292		Entergy Services (SPO)	9	1/1/2013	1/1/2033
77272300		Entergy Services (SPO)	4	1/1/2013	1/1/2033
77289977	undesignation	NRG Power Marketing	1	6/1/2014	6/1/2024
77289995		NRG Power Marketing	309	6/1/2014	6/1/2024
77289999	undesignation	NRG Power Marketing	1	6/1/2014	6/1/2024
77290002		NRG Power Marketing	309	6/1/2014	6/1/2024
77355706		Horizon Wind	100	1/1/2015	1/1/2020
77494473		Arkansas Electric Cooperative (AECC)	660	9/1/2017	9/1/2037
77502748		Entergy Services (SPO)	4	1/1/2013	1/1/2043
77502759		Entergy Services (SPO)	520	5/1/2013	5/1/2018
77502760		Entergy Services (SPO)	520	5/1/2018	7/1/2018
77502765		Entergy Services (SPO)	110	1/1/2013	1/1/2043
77502778		Entergy Services (SPO)	139	1/1/2013	1/1/2022
77502785		Entergy	70	1/1/2013	1/1/2016



OASIS		PSE	MW	Begin	End
		Services (SPO)			
77510046		Entergy Services (SPO)	70	1/1/2016	1/1/2046
77510093		Entergy Services (SPO)	139	1/1/2022	6/1/2022
SPP 74240998_1004_1007_1231_1265		AEP	20-116	1/1/2011	1/1/2020
77522036		EWOM	1	1/1/2013	1/1/2018
77522038		SRMPA	15	1/1/2013	1/1/2018
77522051		EWOM	15	1/1/2013	1/1/2018
77549781		BPAE	130	12/1/2013	12/1/2018
77569115		NRG Power Marketing	1	6/1/2015	6/1/2045
77569117		NRG Power Marketing	80	6/1/2015	6/1/2045
77569311		Cargill Power Markets	200	1/1/2014	1/1/2019
77610313		Cargill Power Markets	200	1/1/2015	1/1/2020
77610315		Cargill Power Markets	200	1/1/2015	1/1/2020
77610320		Cargill Power Markets	200	1/1/2015	1/1/2020