

Southwest Power Pool, Inc.

ENTERGY ICT TRANSMISSION PLANNING SUMMIT

August 11, 2009

Astor Crown Plaza – New Orleans, Louisiana

Dial-in: 210-234-2785

Participant Code: 316949

Notes

11:00 am - 4:30 pm

Welcome and Introductions

Bruce Rew called the meeting into order at approximately 11:00 AM. Bruce announced an ERSC meeting will be held at 12:30PM. A list of those who attended is attached.

Opening Remarks

Randy Helmick gave a presentation on the natural disasters that occurred in 2008 and how they had a significant impact on Entergy's transmission system as well as others.

Planning Process Overview

Jody Holland gave an overview of the development of the Base Plan and Construction Plan. The power point presentation can be found in the background materials posted on the SPP website. There were no questions.

Entergy 2010-2012 Draft Construction Plan

Charles Long gave a presentation on the Arkansas and Mississippi portions of the Entergy 2010-2012 Draft Construction Plan.

Becky Turner asked if the Sarepta project was still included in the CP. Charles Long said yes that project was included in the CP and will be in the Louisiana presentation.

Joe Payne gave a presentation on the Louisiana and Texas portions of the Entergy 2010-2012 Draft Construction Plan.

Terry Dodson asked how many projects were new in the CP versus past years. Joe said he thinks there is around 20 to 25% more projects than normal.

APSC asked if there was anywhere to get the cost estimates for the CP projects. Joe said the cost estimates for the CP projects are currently not available.

Steve presented an overview of the 2009 Reliability Assessment and 2010 Draft Construction Plan Evaluation.

Teri Gallup asked if anyone looks at third party impacts. Steve verified the models include the STEP projects included in the SPP area. Steve said the ICT focuses on the CP, but if the ICT sees problems on the SPP footprint, the ICT will coordinate with the RTO.

Terry Dodson asked about the reason for the significant difference in the number of thermal overloads and low voltages contained in this year's contingency scan spreadsheet versus previous years'. Steve



responded that previous years' scans did not include the draft construction plan projects whereas this year's does. The reduced load forecast also had an impact.

Breakout Planning Discussion Sessions

Arkansas (EAI)

Terri Gallup asked if the Danville project was completed or delayed. Paul Simoneaux said Entergy is waiting on line traps and CT settings. Paul said he will check on the status of the project and contact Terri.

Paul Simoneaux mentioned there will be an open house held in September regarding the new Osage substation. Terri Gallup mentioned AEP has a 345kV line connecting to Osage substation.

Ollie Burke mentioned upgrades that are being funded by OG&E are FERC mitigation upgrades and are not considered supplemental. This was shown incorrectly on a presentation slide.

Ronnie Frizzell asked if Entergy is looking around the Cabot to Beebe area for upgrades. Paul Simoneaux said Entergy is looking at larger plans around the Holland Bottoms area. Entergy looked out to 2018 and still saw some issues.

Paul Simoneaux mentioned the conductor size for the Aquila project will be 666. Ronnie Frizzell asked if Entergy took the AECC buswork into account when determining the conductor size. Jerry Reed said Entergy did take the AECC buswork into account.

Paul Simoneaux mentioned Entergy is looking at bigger projects to solve area problems in the Ebony area and welcomed any suggestions. Todd Peterson proposed a 500kV conversion or a 3rd loop around West Memphis. Ronnie Frizzell proposed a project to tie Harrisburg into Newport. Paul said Entergy has studied the Harrisburg option, but it didn't solve the problems of interest. Ronnie Frizzell mentioned upgrading the Gilmore to Osceola line.

George Heintzen mentioned the Holland Bottoms project has a proposed 2011 ISD, but overloads in the area are seen in 2010. George asked how Entergy plans to address the overloads. Paul Simoneaux said the Hamlet breaker will solve the problems in that area until the Holland Bottoms project is complete.

Paul Simoneaux mentioned there may be some issues acquiring the "right of way" for the Benton North to Benton South project. Terry McKinney said Benton passed a vote requiring all lines to be underground.

Ronnie Frizzell asked where Entergy plans to run the Jonesboro 500kV line. Paul Simoneaux said Entergy plans to build the line south of Jonesboro on the east portion of line going into Hergett. The substation site will be between the 161kV tap and 500kV line ending the AECC double loop.

Ronnie Frizzell mentioned areas of concern regarding voltage such as Lake Village Bagby to Macon Lake, south of Bagby to Chico and further south. Paul Simoneaux said he thinks the Ouachita project should provide voltage support.

Mississippi (EMI)

John Simpson mentioned he is working on a Large Generator Interconnection Agreement (LGIA) that has to be finalized in August. One of the upgrades in the LGIA is to build a second autotransformer at McAdams. Entergy has added a project to their new 2010 -2012 Draft Construction Plan to add a second autotransformer at McAdams for reliability needs. John asked if he would have to pay for the upgrade



and receive supplemental rights or if Entergy would pay for this upgrade though the base rate. Jody Holland explained that the current Base Plan is used to determine if the upgrade is Base Plan or Supplemental. The upgrade would be considered Supplemental because that project is not in the current Base Plan. Jody recommended that John notify his Entergy contacts working on his contract of this situation and see if they can work out a mutual agreement since Entergy believes the upgrade is needed for reliability.

John Heisey asked when a line or project becomes effective in the AFC Models. Kyle Watson said the AFC models have the project added when the project is placed in-service or is energized.

Louisiana (ELL, EGSL, ENOI)

Becky Turner asked if there have been any impacts on the El Dorado Autotransformer and McNeil transformers. The ICT said there have not been any impacts and that is due to the load reduction.

Becky Turner asked if a sensitivity analysis has been performed with Entegra turned on to pmax with the loss of Sarepta to Longwood 115kV line. Edin Habibovic had analyzed that scenario back in 2005. No issues were identified at that time using the models developed back in the 2004/2005 time frame. A sensitivity analysis has not been performed using later model versions.

Becky Turner asked how long is the outage scheduled for the Ray Braswell – Baxter Wilson upgrade. The ICT said that information is stated in the Facility Study Report with an in-service date of 2010. Becky Turner asked how upgrades are put into the short term models. Steve said the upgrades are not put in the short term models until they are energized or are in-service.

Michael Gravolet asked what impact did the Amite South Import Improvement projects have on the Little Gypsy – Fairview 230kV line. Anique Hutchins said the projects did alleviate loading on that line.

Michael Gravolet asked if the Bayou Steel substation was owned by a Customer or by Entergy. Entergy said Bayou Steel is Customer owned. Carol Barfield asked if Bayou Steel is an existing substation. Entergy said Bayou Steel is an existing substation.

Roberto Paliza asked for a follow-up on the Webre – Wells 500kV problems. Joe Payne said he believes the problems caused by the Webre – Wells 500kV contingency were reduced by the load reduction and Acadiana Load Pocket projects.

Roberto Paliza asked why there is a difference in the Texas area beyond the three year Construction Plan window of what upgrades Entergy identifies and the ICT identifies, for example the upgrades at China & Amelia. Entergy and the ICT think in the difference could be the result of how load forecasts in the models are weather normalized. The Base Case models used by the ICT are weather normalized at 96°F. Entergy also performs a screen with the load forecasted for 100°F.

Texas (ETI)

George Kithas asked if the Jacinto – Lewis Creek 138kV to 230kV upgrade is actually going to be completed. George stated that the Sam Houston Electric Coop had to cancel their order of transformers because Entergy was unsure if they were going to complete the upgrade. Doug Powell said the project will be completed, but it will take time because the project requires a lot of coordination with other projects in Western Region. Also, there will have to be some major generation outages in the area during the conversion that will take time to plan. George Kithas said there needs to be some type of commitment from Entergy so Sam Houston Electric Coop can reorder the transformers. Doug Powell said Entergy was watching the real time loads in the Western Region to verify that the upgrades were going to be needed before committing 100% to the project. Doug said he will schedule a meeting in August to discuss the project timeline.

Jeff Chambliss asked if the Fawil Construction Plan project will require high speed relaying. Doug Powell said he will have to get back with Jeff on that.



John Chiles asked why the Alden SVC was removed from the Construction Plan. Keith Kliebert said this project fixed voltage issues in the area and could possibly appear in the CP in the future if a stability analysis identifies a need for the project.

Economic Studies and Other Planning Studies

Doug Bowman presented an overview of the ISTEP.

Charles Long asked what kV levels were monitored for the ISTEP. Doug Bowman said the ICT monitored the 500kV and will evaluate underlying system later in the ISTEP process.

Southeast Inter-Regional Planning Process (SIRPP)

Eddie Filat gave an update on the Southeast Inter-Regional Planning Process (SIRPP).

Eastern Interconnect Planning Collaborative (EIPC)

George Bartlett gave a status update on the Eastern Interconnect Planning Collaborative (EIPC). David asked who provided the guidance for the EIPC. George said he believes FERC does.

Closing Remarks

Bruce Rew closed the meeting at approximately 4:15PM.

ETEC's comments received 08/21/09

Introduction

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Description	Cost Allocation Guideline	Project Category
Block load addition	Projects needed to accommodate the addition of block loads beyond expected normal load growth	Attachment T	CP (load related)
Load growth	Projects needed to reliably serve expected normal load growth	Attachment T	CP (load related)
Transmission Reliability - Maintaining Infrastructure	Projects needed to maintain existing infrastructure or existing levels of reliability	Attachment T	CP (AM related)
Transmission Reliability - Meeting Planning Criteria	Projects needed to meet NERC Reliability Standards, SERC Supplements, and Entergy Transmission Local Planning Criteria	ICT to determine	CP (others)
Transmission Reliability - Regulatory	Projects to satisfy regulatory requirements	ICT to determine	CP (others)
Transmission Service	Projects needed to accommodate new transmission service requests	ICT to determine	CP (others)
Economic	Projects anticipated to yield production cost savings	ICT to determine	CP (others)
Enhanced Transmission Reliability	Projects yielding transmission reliability levels above those specified in local planning criteria	ICT to determine	CP (others)
Customer Driven	Customer driven (other than reliability)	ICT to determine	CP (others)
Generation Interconnection	Projects to interconnect new generation	ICT to determine	CP (others)

Terminology (Funding Comments)

Approved	Project construction is funded and Entergy is committed to completing it by the projected in service date
	Project is currently funded for scoping and preliminary

Proposed & In Target	engineering and the expected construction commencement date is within the 3-year Construction Plan horizon

Caveats! This list of approved and proposed projects is fluid. Budget adjustments throughout the year could after this list. "Out-of-cycle" projects, such as customer-driven projects, could be appended to the list as needed.

Notes:

"Carryover" projects are those projects approved in prior budget year, but whose in-service date is expected to be beyond budgeted year.

Addendum: Identified Target Areas

Identified Target Areas are areas with reliability concerns. For some areas, specific potential projects have been identified. However, the construction start dates of the potential projects or possible solution sets are beyond the 3-year Construction Plan horizon. These projects and associated projects are not part of the 2010-2012 Entergy Construction Plan.

Page 1 of 13

May 2009 Rev.

Introduction

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Description	Cost Allocation Guideline	Project Category
Block load addition	Projects needed to accommodate the addition of block loads beyond expected normal load growth	Attachment T	CP (load related)
Load growth	Projects needed to reliably serve expected normal load growth	Attachment T	CP (load related)
Transmission Reliability - Maintaining Infrastructure	Projects needed to maintain existing infrastructure or existing levels of reliability	Attachment T	CP (AM related)
Transmission Reliability - Meeting Planning Criteria	Projects needed to meet NERC Reliability Standards, SERC Supplements, and Entergy Transmission Local Planning Criteria	ICT to determine	CP (others)
Transmission Reliability - Regulatory	Projects to satisfy regulatory requirements	ICT to determine	CP (others)
Transmission Service	Projects needed to accommodate new transmission service requests	ICT to determine	CP (others)
Economic	Projects anticipated to yield production cost savings	ICT to determine	CP (others)
Enhanced Transmission Reliability	Projects yielding transmission reliability levels above those specified in local planning criteria	ICT to determine	CP (others)
Customer Driven	Customer driven (other than reliability)	ICT to determine	CP (others)
Generation Interconnection	Projects to interconnect new generation	ICT to determine	CP (others)

Terminology (Funding Comments)

Approved	Project construction is funded and Entergy is committed to completing it by the projected in service date
Proposed & In Target	Project is currently funded for scoping and preliminary engineering and the expected construction commencement date is within the 3-year Construction Plan horizon

Proposed & In Target

Caveats! This list of approved and proposed projects is fluid. Budget adjustments throughout the year could after this list. "Out-of-cycle" projects, such as customer-driven projects, could be appended to the list as needed.

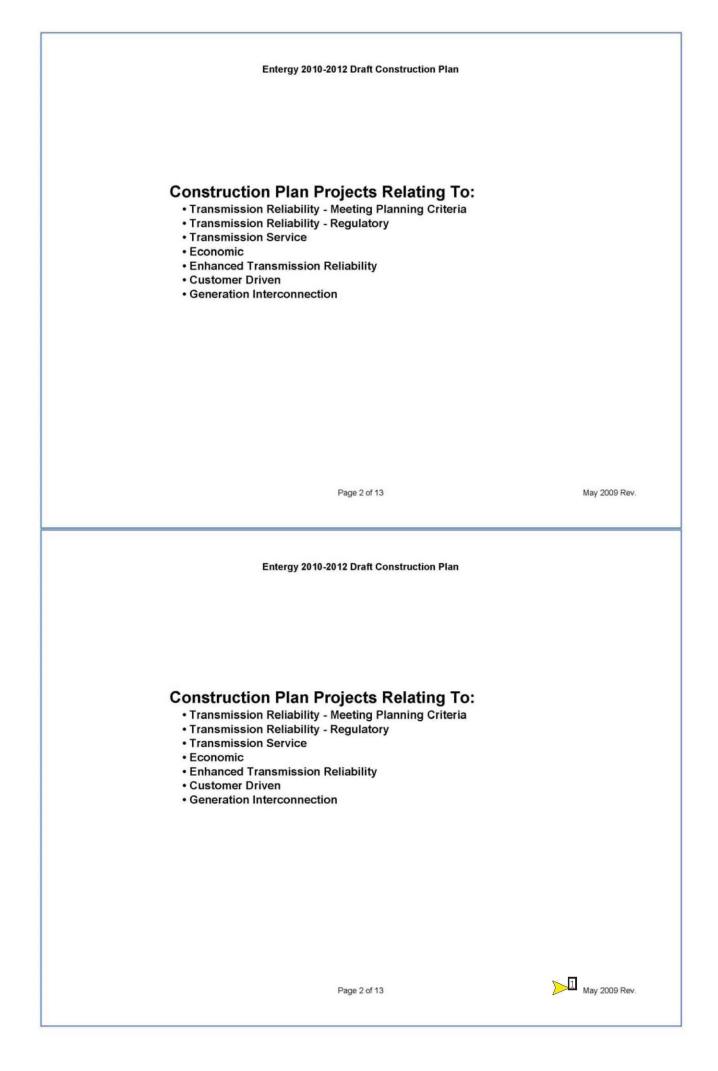
Notes:

"Carryover" projects are those projects approved in prior budget year, but whose in-service date is expected to be beyond budgeted year.

Addendum: Identified Target Areas

Identified Target Areas are areas with reliability concerns. For some areas, specific potential projects have been identified. However, the construction start dates of the potential projects or possible solution sets are beyond the 3-year Construction Plan horizon. These projects and associated projects are not part of the 2010-2012 Entergy Construction Plan.

This page contains no comments



Page: 2

Number: 1 Author: claudiu.cadar Subject: Sticky Note Date: 8/10/2009 8:43:28 PM REV2 Should state the month of "August" as for the updated revision

Entergy	2010-2012 D	Construction	Plan

Existing in 2009-2011		1				1
Construction Plan						
Vew Addition						
Project Driver	Project Name	LE	Current Projected In- Service	2009 Funding Comments	Project Status	Other Comments
Transmission Reliability -	Donaghey - Conway South: Reconductor with 666 ACSS	EAI	Winter 2009	Approved	Design/Scoping	Increase Load Serving capability in
Meeting Planning Criteria Transmission Reliability -	Hamlet: Install Breaker on Conway Industrial Line	EAI	Summer 2009		Construction	Conway Area Eliminate risk for transmission
Meeting Planning Criteria				Approved		contingency
Transmission Reliability - Meeting Planning Criteria	Danville Substation: Upgrade Terminal Equipment to match or exceed Magazine line ratings	EAI	Fall 2009	Approved	Construction	Project to eliminate overloads for loss o ANO-FL Smith EHV line
Transmission Service	SMEPA (Plum Point): Del-Martilli St (N line: Upgrade to al least 247M/A Manita-Monette 161KV line: Upgrade to al least 247M/A Somebore Nonh-Paragould South 161KV line: Upgrade to at least 247M/A Somebore North-Jonesboro 161KV line: Upgrade to at least	EAI	Sümmer 2010	Approved	Construction	Transmission service
Transmission Reliability - Meeting Planning Criteria	247MVA Sarepta Project (NW Louisiana/South Ankansas Voltage Support Plan) Add 10 & MVAR capacifor bank at Emerson 115 kV substation	1	Summer 2011	Approved	Design/Scoping	Revised bank size to 10.8 MVAR Instead of 32.4 MVAR
Transmission Reliability - Meeting Planning Criteria	Warren East - Add Capacitor Bank (10.8 MVAR; 115 kV)	EAI	2012	Proposed & In Target	Design/Scoping	Instead of 32.4 MVAR
Transmission Reliability -	Osage Creek-Grandview New Line	EAI	2012	Proposed & In	Scoping	Project to increase reliability to load in
Meeting Planning Citteria	Build new 161 kV line from Grandwew (lap on Eureka-Table Rock Line) to Osage Creek	CA1		Target	scoping	NW Arkansas, specifically along the Harrison - Eureka Springs 161 kV line Exploring other options with customer
Transmission Reliability - Meeting Planning Criteria	Holland Bottoms (Cabot EHV): Construct 500/115 kV substation	EAI	2013	Proposed & In Target	Design/Scoping	Project to improve reliability in Little Rock during heavy transfers and and loss of Mabelvale autotransformer
Transmission Reliability - Meeting Planning Criteria	Gillette: Install 10.8 MVAR Capactor Bank	EAI	Summer 2009	Approved	Construction	Final part of 2 part project to improve voltage profile in the area between Helena and Stuttgart
Transmission Service	Transmission Service (OG&E) Upgrade ANO - Russelville North OGE Upgrade Russelville East - Russelville South OGE	EAI	Winter 2011	Approved	Design/Scoping	
Transmission Service	Transmission Service (Aquilia) Upgrade Hot Springs - Bismark Upgrade Bismark - Alpine Upgrade Bismark - Alpine	EAI	Winter 2011	Approved	Design/Scoping	
Transmission Reliability - Meeting Planning Criteria	Carler and Ellon: Upgrade 69 kV capacitor bank at Ellon to 14 MVAR, Add 69 kV, 14 MVAR capacitor bank at Carter	2	2010	Proposed & In Target	Design/Scoping	Formerty Serpent and Elton
Transmission Reliability - Meeting Planning Criteria	Construct New Youngsiville 139 kV Distribution Substation	EGSL	2011	Proposed & in Target	Design/Scoping	Shifts load off Lafayette to Holiday to Billeaud 59 kV Line. (Replaces Lafayette to Holiday to Billeaud Upgrade)
Transmission Reliability - Meeting Planning Criteria	Alchem - Monochem: Upgrade 138 KV line	EGSL	2011	Proposed & In Target	Design/Scoping	
Transmission Reliability - Meeting Planning Criteria	Acadiana Anas Improvement Project Phise 1 Projects (2011) Construct new Sellers Road to Meaux 230 KV Line Add 406 M/A, 230-318 V via ad Meaux Add new 338 KV line bay at Mori (Cegura Line) Add new 530 KV position for Cicco audofrantomer at Richard	EGSL	2011	Approved	Design/Scoping	

CP (Others)

Page 3 of 13

May 2009 Rev.

Entergy 2010-2012 Draft Construction Plan

Existing in 2009-2011			1			
lew Addition						
lugust 2009 Addition /						
Project Driver	Project Name	LE	Current Projected In- Service	2009 Funding Comments	Project Status	Other Comments
rammission Reliability -	Hamlet 161 KV Substation: Install 161 KV Breaker on Conway Industrial Line	EAI	Summer 2009	Approved	Complete	Eliminate risk for transmission
Aeeting Planning Criteria		- 7.11			S. WAND	contingency
Transmission Reliability Meeting Planning Criteria	Gillette 115 kV Substation: Install 10.8 MVAR Capacitor Bank	EAI	Summer 2009	Approved	Construction	Final part of 2 part project to improve voltage profile in the area between Helena and Stuttgart
Transmission Reliability - Meeting Planning Criteria	Conway West - Donaghey 161 xV Line: Reconductor with 666 ACSS	3		Approved	Complete	Increase Load Serving capability in Conway Area
Transmission Reliability - Meeting Planning Criteria	Danville 161 kV Substation: Upgrade Terminal Equipment to match or exceed Magazine line ratings	EAI	Fail 2009	Approved	Construction	Project to eliminate overloads for loss ANO-FL Smith EHV line
Transmission Reliability - Meeting Planning Criteria	Donaghey - Conway South 161 kV Line: Reconductor with 666 ACSS	EAI	Winter 2009	Approved	Design/Scoping	Increase Load Serving capability in Conway Area
fransmission Service	SMEPA (Plam Point): "Dell- Manifa 1511V Line: Upgrade to at least 247M/A "Manifa - Monate 1611V Line: Upgrade to at least 247M/A "Jonesbor North - Paragould South 1611V Line: Upgrade to at least 247M/A - Jonesbor North - Accessor 1511V Line: Upgrade to at least 247M/A	EAI	Summer 2010	Approved	Construction	Transmission service
Transmission Reliability - Meeting Planning Criteria	Beebe 115 kV Substation: Install 21.6 MVAR Capacitor Bank	4	2010	Proposed & In Target	Design/Scoping	Project to address ICT 100 MW rule
Transmission Reliability - Meeting Planning Criteria	Mt. Ida 115 kV Substation: Install 10.8 MVAR Capacitor Bank	EAI	2010	Proposed & In Target	Design/Scoping	
Transmission Reliability - Meeting Planning Criteria	Melbourn - Sage 161 kV Line: Upgrade line to at least 1200 A	EAI	Winter 2010	Proposed & In Target	Design/Scoping	
Transmission Service	Transmission Service (OG&E) Upgrade AVO - Russekke North 151 XV Line to 545 MVA Upgrade Russelville East - Russelville South 161 XV Line to 448 MVA	EAI	Winter 2010	Approved	Design/Scoping	Accelerated ISD one year
Transmission Reliability - Meeting Planning Criteria	Sarepta Project (NW Loutslana/South Arkansas Voltage Support Plan) Add 10.8 MVAR capacitor bank at Emerson 115 KV substation	EAI	Summer 2011	Approved	Design/Scoping	Revised bank size to 10.8 MVAR Instead of 32.4 MVAR
Transmission Reliability - Aeeting Planning Criteria	Crage Creek Grandwer New Line Buildnew 16 N (V Lisert 1200 A) ine from Grandwer (Planned SPA 151 K/ SubstationTapped on the Eureka - Table Rock 161 K/ Line) to Crage Creek	EAI	2011	Proposed & In Target	Design/Scoping	Project to increase reliability to load in NW Arkansis, specifically along the Harrison - Eureka Springs 161 kV line Exploring other options with customer Accelerated ISD.
Transmission Reliability - Aeeting Planning Criteria	Harrison East to Everton Road 161 kV Line: Upgrade Harrison East Terminal Equipment to 1200 A	EAI	2011	Proposed & In Target	Design/Scoping	Replaces St. Joe to Hillop project identified in the ICT base plan.
ransmission Reliability - feeting Planning Criteria	Holland Boltons: (Cabd EH-V): Construct new 500/161/115 kV substation Phase 1 Projects (2011) Tap the K-o-ISES 500 kV Line Tap the Cabd - Jacksonville Noth 115 kV Line Instal 500 kV and 115 kV Busse and a 500 MVA 500 kV / 115 kV Aufotransformer	EAI	2011	Proposed & in Target	Design/Scoping	Project to improve reliability in Little Rock during heavy transfers and and loss of Mabelvale autotransformer. Accelerated ISD 2 years.
ransmission Service	Transmission Service (Aquilla) Upgrade Hot Springs – Bismark 115 kV Line to 176 MVA Upgrade Bismark - Alpine 115 kV Line to 176 MVA Upgrade Bismark - Amity 115 kV Line to 176 MVA	EAI	Winter 2011	Approved	Design/Scoping	Hot Springs to Bismark was identified as a base plan difference project

CP (Others)

Page 3 of 13

Page: 3

Number: 1 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:42:15 AM REV2 Issue from REV1 partially resolved. Ignore PSS/E error or change bank size to 10.2MVAr instead 21.6MVAr

REV1 Size of the bank at Emerson (both CP revisions) doesn't match with the IDEV definition and description. The IDEV definition shows a 10.2MVAr unit with a 21.6MVAr step. The IDEV descriptions indicates a 21.6MVAr unit.

Number: 2 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:42:13 AM REV2 Issue resolved

REV1 improper input for the proposed size of cap bank at 335254 and 335257 $\ensuremath{\mathsf{325257}}$

Number: 3 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:42:07 AM REV2 IDEV file is missing. The model "Final_U2" does not include the change

REV1 Project description is missing from REV1 list (IDEV file is included in ZIP file)

Number: 4 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:42:09 AM REV2 This could be "Ward capacitor bank"? Beebe project doesn't have a corresponding IDV and "EAI 2010S Ward Capacitor Bank Rev 0.idv" doesn't relate to any listed project

Meding Planning Cifelial Planet 2 Projects OTIS Transmission Relation: Construct new Label 15 Beller Read 230 VV Line Summer 2000 Approved Transmission Relation: Construct new Label 15 Beller Read 230 VV Line ESSLELL OTIS Approved Transmission Relation: Construct new Label 15 Beller Read 230 VV Line ESSLELL OTIS Approved Transmission Relation: Construct new XAS 150 VV Line (more readon Panit) Diff Summer 2000 Approved Meding Planning Ciferial Construct a new XAS 150 VV Line (more readon Panit) Diff OTIS Approved Meding Planning Ciferial Construct a new XAS 150 VV Line (more readon Panit) Diff OTIS Approved Meding Planning Ciferial Construct a new XAS 150 VV Line (more readon Panit) Diff OTIS Approved Meding Planning Ciferial Construct a new XAS 150 VV Line (more readon Panit) Diff OTIS Approved Meding Planning Ciferial Construct a new XAS 150 VV Line (more readon Panit) Diff OTIS OTIS Approved Meding Planning Ciferial Sounand Ciferial Construct and Ciferial	Project Stat Design/Scopi roved Design/Scopi roved Construction roved Construction roved Design/Scopi roved Construction roved Construction roved Design/Scopi roved Design/Scopi reset & In Design/Scopi reset & In Design/Scopi	Ing Projected in-service date contingent of UCS approval of its portion of this project.
Project Driver Transmission Relations/ Heading Planning Criteria List Service Comments/ Driver Comments/ Early Planning Criteria Median Planning Criteria Assistant Area Improvement Project And Prace Outpoint Coline Criteria Dirac Approved Approved Approved Dirac Approved Approved Intermission Relations/ Transmission Relations/ Action Relation/ Action Relation/ Actio Relation Relation/ Action Relation/ Action	Project Stat Design/Scopi roved Design/Scopi roved Construction roved Construction roved Design/Scopi roved Construction roved Construction roved Design/Scopi roved Design/Scopi reset & In Design/Scopi reset & In Design/Scopi	Ing Projected in-service date contingent in LUS approval of its portion of this project. ROW acquisition and permitting under why ROW acquisition and permitting under why Upgrade terminal equipment to them rating of conductor Ing Final ISD's to be determined Ing Improve reliability in the Greenwood area in conductors Ing Final ISD's to be determined Ing Improve reliability in the Greenwood area in conductors Ing State in conduction and shown necessary outages thus project delay Project to Improve the votage profile the Southaver area, percentile, thermal capac of the 50 xV line. Ing Final ISD's to be determined Ing Ing Improve the votage profile the Southaver area, percentile, thermal capac of the 50 xV line. Ing Final ISD's to be determined Ing Project to Improve the votage profile Ins Votages Thus project delay Ing Project to Improve the votage profile Ins Votages Thus project delay Ing Project to Improve the votage profile Ins Votages Thus project delay Ing Project to Improve the votage profile Ins Votages Thus project delay Ing Project to Improve the votage profile Ins Votages Thus project delay Ing Project to Improve the votage profile Ins Votages Investor the Internal capac Ing Final ISD's to be determined
Transmission Relativity: Ander: Add: Add 36 MVAR Cap Bank Summer 2000 Approved Transmission Relativity: Bediny-Hammond Build 200 MV Line EDSLELL: 2013 Approved Transmission Relativity: Bediny-Hammond Build 200 MV Line EDSLELL: 2013 Approved Meding Planning Criteria Construct a new 36-115 MV substation consulting of a 200 MVA Audo ELL: 2011 Approved Transmission Relativity: Sammer 2000 Approved ELL: 2011 Approved Mathematistion Relativity: Sammer 2000 Approved ELL: 2011 Approved Transmission Relativity: Sammer 2000 Approved ELD: 2011 Approved	roved Design/Scopi roved Constructio roved Design/Scopi roved Design/Scopi rget Design/Scopi rget Design/Scopi rget Design/Scopi roved Design/Scopi roved Constructio roved Constructio reset & In Design/Scopi	Ing ROW acquisition and permitting under Way
Transmission Relativity biology-Hammond Build 20 W Line 6000000000000000000000000000000000000	roved Constructio roved Design/Scopi rget Design/Scopi rget Design/Scopi rget Design/Scopi rget Design/Scopi reved Design/Scopi reved Construction reved Construction reved Construction reved Design/Scopi rget Design/Scopi	way way way way u way u u way u u u u u u u u u u u u u u u u u u u
Method particing Creative Transmission Reliability: Serief a Project (NVL Cousiana South Anamses Voltage Support Plant) Construction a new 344-115 M substation constituing of a Add 32 A MVAR capacitor bank it Luckey 115 M substation 1009 ELL 2011 Approved Add 32 A MVAR capacitor bank it Luckey 115 M substation 1009 Transmission Reliability: Method Planning Creative Southeast LUCkey 115 M bits and register 300-115 auto and substation Add 32 A MVAR capacitor bank it Luckey 115 M bits Substation 1009 ELL 2012 Proposed & In Transmission Service Open Stering International Creative Store Plant P	ioved Design/Scopi reget Design/Scopi reget Design/Scopi roved Design/Scopi roved Design/Scopi roved Design/Scopi roved Constructio roved Constructio	ing Upgrade terminal equipment to them rating of conductor ing Upgrade terminal equipment to them rating of conductor ing Final ISD's to be determined Upgrade to increase the capability with SMEPA in coordination with SMEPA' upgrade of their audotransformers at Magee (SMEPA would not allow necessary outages thus project delay ing Project to improve the voltage profile the Southaver area, specifically the ISDN system south of Gelveel Project to increase the Immail capae of the 600 xV line.
Aleking Planning Citetis C. Cit attein in EU. Dorado Longwood 355 Vine Add 32 A MVAR equacitor bank at Luckny 115 Vi substation (2009) Tantimission Reliability Sediment LA Coastilling improvement Plann Phase 2 ELL 2012 Proposed & In Target Add 32 A MVAR equacitor bank Lock attein provide the U. Dorado bulk Vines Add 32 A MVAR equacitor bank ELL 2011 Proposed & In Target Bulk Planning Citetis Coastilling Planning Citetis Coastilling Planning Citetis Coastilling Planning Citetis Coastilling Coastilling Planning Citetis Coastilling Planning Citetis Planning Citetis Planning Citetis Planning Citetis Planning	ed & In Design/Scop rget res & In Design/Scop roved Design/Scop rget roved Design/Scop roved Construction roved Construction roved Design/Scop roved Construction res & In Design/Scop	ing Upgrade terminal equipment to them rating of conductor rating of conductor ing Final ISD's to be determined and the second s
Transmission Reliability - Southeast LA Ceastal Improvement Pin: Pinase 2 ELL 2012 Propose 6 in Target Transmission Reliability - Bould Relia F Adams, Creek 220 kV No 32 - Upgrade ferminal equipment at Bogalaxas ELL 2011 Propose 6 in Target Transmission Reliability - Bould Reliability - Bould Reliability - Doublits Transmission Service Spit Element Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 auto #2 wth 750 MVA Upgrade Verming Cover las 115 kV for and relace 500-115 kV for and 115 kV fo	rget Design/Scopi rget Design/Scopi rget Design/Scopi roved Design/Scopi rget Design/Scopi roved Constructio roved Constructio red & In Design/Scopi rget Design/Scopi	Ing Upgrade terminal equipment to Therm rating of conductor Final ISD's to be determined Ing Final ISD's to be determined Ing Improve reliability in the Greenwood area Need Moble Project to increase the capability with Mappe didter with SMEPA's upgrade of their audorimitorimers at Mappe didter with SMEPA's upgrade of their audorimitorimers The Condition with SMEPA's upgrade of their audorimitorimers region of their audorimitorimers The Condition of the Voltage profile the Southaverse area, specifically the the Southaverse area, specifically region of their audorimital capace of the 500 kV line. The SOUTH SUP To be defermined
Transmission Reliability - Bopakrate A dams Creek 23 kW No. 2 - Upgrade terminal equipment at Bogakrate Perming Crean Perming Perming Crean Perming Perm	ee & Lin Design/Scopi roved Design/Scopi roved Design/Scopi roved Design/Scopi roved Construction roved Construction roved Construction red & Lin Design/Scopi rgel	rating of conductor ing Final ISD's to be determined ing Final ISD's to be determined ing Improve reliability in the Greenwood area Need Moble Project to increase the capability with SMEPA's in coordination with SMEPA's upgrade of their audorismicFormers at Mages (SMEPA would not allow necessary outages thus project delay necessary outages thus project delay the Southwave area. project delay the Southwave area. project delay area of the dot vit ine. ing Project to increase the thermal capacit of the 500 kV line. ing Project to increase the thermal capacit of the 500 kV line.
Spill Sterington 135 kV but and replace 500-115 and 22 with 700 MVA Upgrade Froatrant Io Rila 115 kV Sine Upgrade Sterington 10 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 10 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 10 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 10 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 100 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 100 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 100 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 100 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 100 North Crossell 100 North Bastrop Add 43 MVAR.115 KV Substation - Add 10 Ones series reactor Image: Spill Sterington 2010 Approved Approved Transmission Reinice Transmission Service Move Sterington 500 MVA audo to Baster Wilson 500 (Second 500-115 KV audo) Image: Spill Proposed 510 Move Sterington 500 MVA audo to Baster Wilson 500 (Second 500-115 KV audo) EMI 2012 Approved Approved CP (Othens) Page 4 of 13 Image: Spill Sterington 500 MVA audo to Baster Wilson 500 (Second 500-115 KV audo) Image: Spill Sterington Plan Existing to 2009-2011 Construction Plan Image: Spill Sterington Fla	ed & in Design/Scopi get Design/Scopi roved Constructio ed & in Design/Scopi get Design/Scopi get Design/Scopi	ing Improve reliability in the Greenwood area Need Moble 10 Project to increase the capability with SMEPA in coordination with SMEPA' upgrade of their audorimitorimers at Magee (SMEPA would not allow necessary outsges this project delay necessary outsges this project delay the Southaver area, precifically the the Southaver area, precifically the the Southaver area, precifically the the Southaver area, precifically the the Southaver area in the south of Getweet at the 600 kV tee.
Transmission Reliability- Indianola-Greenwood; Upgrade jumpers and buswork (Morehead, Itta Bena, EM Winter 2009 Approved Approved Approved Transmission Reliability- Magee Sub; Replace Switches EM 2010 Approved Transmission Service Promote Compared Finance Reliability- Magee Sub; Replace Switches EM 2011 Proposed & In Target Transmission Service Outprint Transmiss	rgel Design/Scopi roved Design/Scopi roved Constructio Led & In Design/Scopi rgel Design/Scopi	Ing Improve reliability in the Greenwood area Need Mobie Project to increase the capability with SMEPA in coordination with SMEPA' upgrade of their audoransformers at Magee (SMEPA would not allow necessary outages thus project delay necessary outages thus project delay the Southawer area, projectically the the Southawer area, projectically the the Southawer area, projectically the atthe 500 kV line. Ing Pinat ISD's to be determined
Adeting Planning Criteria Greenwood) EM 2010 Approved Interning Criteria Magee Sub: Replace Switches EM 2010 Approved Transmission Service Hornlake - TH Allen TVA Line upgrade EM 2011 Proposed & In Target Transmission Service Green Guil Upgrade Project EM 2011 Proposed & In Target Transmission Service Green Guil Upgrade Project EM 2012 Approved Transmission Service Outprills Transmission Service Outprills Transmission Service 2011 Proposed & In Target Transmission Service Outprills Transmission Service Outprills Transmission Service 2012 Approved Outprills Transmission Service Outprills Transmission Service Outprills Transmission Service EM 2012 Approved Proposed All transmission Service Outprills Transmission Service Outprills Transmission Service EM 2012 Approved	roved Constructio	area Need Mobie Project to increase tie capability with SMEPA' in coordination with SMEPA' upgrade of their audoransformers at Magae (SMEPA vould not allow necessary outages thus project delive the Southarear area, specifically the the Southarear area, specifically the 10xV system south of Getwell Project to increase the Hermal capaci- anthe 500 kV line. Project So KV line.
Alexeting Planning Citteria Transmission Service Fransmission Service Fransmission Service Fransmission Service Grand Guiff Uprate Project Bacter Wilson to Ray franswel 500 KV line uprate breakers and switches Duachita Transmission Service Outchild Transmission Service Move Sterrington 500 MVA audo to Bacter Wilson 500 (Second 500-115 KV audo) EM Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed 4. In Target Proposed Pr	red & In Design/Scopi rget Design/Scopi rget	n Project to increase the capability with SMEPA in coordination with SMEPA' upgrade of their autotransformers at Magee (SMEPA would not allow necessary outages thus project delay ing Project to improve the voltage profile the Southaver area, specifically the ITSV system south of Getwell Project to increase the Internal capac of the 500 xV line.
Frammission Service Grand Guild Uprate Project Backer Wilson to Pay Ensaved 500 KV line uprate breakers and switches 2011 Proposed & In Target Cuschild Transmission Service Ouschild Transmission Service Move Sterrington 500 MVA audo to Baster Wilson 500 (Second 500-115 KV audo) EM 2012 Approved PP (Others) Page 4 of 13	rget ed & In Design/Scopi rget	ing Project to improve the voltage profile the Southaven area, specifically the 115XV system south of Gelveel register in the second second second of the 50 xV line. Final ISD's to be determined
Frammission Service Grand Guild Uprate Project Backer Wilson to Pay Ensaved 500 KV line uprate breakers and switches 2011 Proposed & In Target Cuschild Transmission Service Ouschild Transmission Service Move Sterrington 500 MVA audo to Baster Wilson 500 (Second 500-115 KV audo) EM 2012 Approved PP (Others) Page 4 of 13	rget ed & In Design/Scopi rget	the Southaven area, specifically the 1156V system south of Gelveel of the So V line. Ing Project to increase the thermal capac of the So V line. Final ISD's to be determined
Backer Wischot Page Dargevice Backer Wischot Page Dargevice Council and Transmission Service Council and Transmission Service Move Sterington 600 MVA audo to Bacter Wilson 500 (Second 500-115 KV audo) P (Others) P (Others) P (Others) Page 4 of 13 Entergy 2010-2012 Draft Construction Plan	rget	of the 500 XV line. Final ISD's to be determined
Move Sterlington 500 MVA auto to Banter Wilson 500 (Second 500-115 KV auto) P (Others) Pege 4 of 13 Entergy 2010-2012 Draft Construction Plan Entergy 2010-2012 Draft Construction Plan		
Entergy 2010-2012 Draft Construction Plan		May 2
Construction Plan		
	2009 Funding	
Trammission Reliability - Holland Bottoms (Cabot EHV): Construct new 500/161/115 kV substation EAI 2012 Proposed	Comments Project Proposed & In Design/ Target	t Status Other Comments Scoping Project to Improve reliability in Lift Rock during heavy transfers and
Install 161 KV Bus and a 600 MVA 500 KV / 161 KV Autotransformer		loss of Mabelvale autotransforme Accelerated ISD 2 years
Aeeling Planning Criteria Convert Hamiel SS to a breaker station (Single Bus Single Breaker Scheme) Move the Quintamiline form Gold Creek to Hamiel SS Move the Gravet Röge line from Gold Creek to Hamiel SS Construct a line rated at last 1200 A from Hamiel SS to Holand Bittoms	Target	Scoping In lieu of Momilton East - Gleasor upgrade.
Aeeting Planning Criteria Targe	Target	Scoping Scoping Project in-fleu of WM Lehi capaci
Aeeting Planning Criteria Luries Terminating into New Ebory Subdation (ratings unchanged): Ebory - Hum Road 161 KV Line Ebory - WM Lehi - VMA Pok - WM EPAY 161 KV Line Ebory - MM Lehi - VMA Pok - WM EPAY 161 KV Line Ebory - Marked Tree 151 KV Line Ebory	Target	bank
Fransmission Reliability - Jonesboro to Hergett 161 KV Line: Upgrade 161 KV Line to at least 240 MVA EAI 2012 Proposed Targe	Target	Scoping Alternative project to Bauxite cap
Aeeting Planning Criteria Install Switching Stations at Benton North and Benton South Targe Transmission Service Wester Transmission Service Moneter – Pursopul 616 HW Line: Upgrade to at least 246 MV/A VA1 7 Summer 2012 Approv	Target	Scoping Alternative project to bauxie cap bank (addresses ICT 100 MW rul Scoping Monette to Paragouid upgrade w identified as a base plan difference
Paragould Substation: Upgrade the switch 86673 from 600A to 2000A Russellville South - Dandanelle Dam (SPA) 161kV Line: Upgrade to 416 MVA		project.
Aeeting Planning Criteria Transmission Reliability - Carter and Elton: Upgrade 69 kV capacitor bank at Elton to 14 MVAR, Add 69 kV, 14 MVAR EGSL 2010 Proposed	Approved Com	and the second sec
Transmission Reliability - Construct New Youngsville 138 kV Distribution Substation EGSL 2011 Proposed	Proposed & In Design/	Scoping Formerly Sarpent and Elton
	Proposed & In Target	piete Scoping Formerly Serpect and Eliton Scoping Shifts load off Lafayette to Holida Shifts Load off Lafayette to Holiday to Billeaud Lafayette to Holiday to Billeaud
	Proposed & In Design/ Target Proposed & In Design/ Target	plete Scoping Formerly Serpent and Ellon Scoping Shifts load off Lafayette to Holida Billeaud 69 VV Line, (Replaces
Aeeling Planning Criteria	Proposed & In Target Proposed & In Target Approved Detign/	plete Scoping Formerly Serpert and Elicon Scoping Shifts load of Lafayette to Holida Billeaud 6 9 VL Line, (Replaces Lafayette to Holiday to Billeaud Upgrade). May be delayed oney due to resisibility of ROV acquait

Page: 4

Number: 1 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:42:00 AM REV2 IDEV Size of cap bank 37.7MVAr doesn't match with the description

REV1 IDEV Size of cap bank 37.7MVAr doesn't match with the description

Number: 2 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:49 AM REV2 Waterford project doesn't have a corresponding IDEV

REV1 Waterford project doesn't have a corresponding IDEV

Number: 3 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:53 AM REV2 Issue resolved. MVAr effective is 30.5 (32.4MVAr cap size)

REV1 Size of capacitors at Luckey and Vienna (both CP revisions) doesn't match with the IDEV definition file (30.5MVAr)

Number: 4 Author: claudiu.cadar Subject: Sticky Note Date: 8/10/2009 8:43:00 PM REV2 Improper "purge" command at 2nd IDEV file for 337581-337415; line has been moved to 337581-337414 at 1st IDEV

REV1 Python file to be applied prior to the IDEV pertaining Sterlington; needs notice

Number: 5 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:57 AM REV2 Bus 337450 already in the model - LTAP command included in "ELL-N 2010S Adjust load by year based on the Info inside IDV-Sacksonia and Cap Bank at Delhi.idv" is unnecessary

REV1 Bus 337450 already in the model - LTAP command included in "ELL-N Sacksonia and Cap Bank at Delhi.idv" is unnecessary

Number: 6 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:42:38 AM REV1 Grand Gulf project doesn't have a corresponding IDEV

Number: 7 Author: claudiu.cadar Subject: Sticky Note Date: 8/10/2009 8:44:13 PM REV2 Missing the IDEV file for Russelville South - Dardanelle upgrade (see "EAI 2012S Wester Facility Study.idv" as included in REV1)

Number: 8 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:38 AM REV2 The item should be highlighted since has a different approach than REV1. However, if the line has been uprated corresponding to a temperature of 100C (not 100F as indicated by the IDEV), there is no issue. If the line has been resaged (as stated in the IDEV), the IDEV file should include different electrical parameters

Number: 9 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:40 AM REV2 Addis - Cajun line upgrade should include electrical characteristics

Existing in 2009-2011 Construction Plan New Addition				_			
Brainst Dalwar	Restart Manag		Project	ed In- 200	9 Funding	Project Status	Other Community
Project Driver Transmission Reliability - Meeting Planning Criteria	Project Name Grenada/Winona/Greenwood Area Improvement (Tillatoba auto atemative): Phase 1	EM	201	13 Pro	omments posed & In Target	Project Status Scoping	Other Comments Project to improve reliability in the area between Tillatoba, Indianola, and Attalia
en de milier i Vertreise fa kendete	Add 2nd Cap Bank at Winona Upgrade Cap Bank at Greenwood						for various 115 kV and 230 kV contingencies. Previous project was to
Transmission Reliability -	Install Cap Bank at Schlater Ridgeland-Madison Reliability Improvement	2	201	14 Pro	posed & In	Design/Scoping	add 2nd Tillatoba auto - this project provides better value Project to serve rapid load growth North
Meeting Planning Criteria Transmission Reliability -	Rebuild Lakeover - Ridgeland Line Ridgeland-Madison Reliability Improvement	EM	201		Target posed & In	Design/Scoping	of Jackson Project to serve rapid load growth North
Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria	Bulld Lakeover-Sunnybrook Ray Braswell - Wyndale-Byram (S. Jackson) 115kV Line	EMI	201	12 Pro	Target posed & In Target	Design/Scoping	of Jackson Project to alleviate overloads flowing south on the 115 kV system between
Transmission Reliability -	Grenada/Winona/Greanwood Area Improvement (Tillaloba auto atternative):	EM	201	I4 Pro	posed & In	Design/Scoping	Jackson and south Louisiana Project to improve reliability in the area
Meeting Planning Criteria	Phase 2 Build 230 kV line from Tillatoba to South Grenada Instiall Auto at South Grenada				Target		between Tillatoba, Indianola, and Atlalia for various 115 kV and 230 kV contingencies. Previous project was to add 2nd Tillatoba auto - this project
Transmission Reliability - Meeting Planning Criteria	Liberty-Gloster: Upgrade 115 kV Line For Natchez De-listing	EMI	Winter	2009	Approved	Construction	provides better value Project required to maintain reliability in the Natchez area after loss of local
Transmission Reliability -	Paterson 115kV/Restore 4 breakers	ENO	Summer	1 2009	Approved	Construction	generation
Meeting Planning Criteria Enhanced Transmission Reliability	Warren Substation - Add two breakers			2009	Approved	Design/Scoping	
Generation Interconnectio	Construction of the second	4			Approved	Construction	
Transmission Reliability - Meeting Planning Criteria Transmission Reliability	Western Region Reliability Improvement Plan Phase 3 Inferim (Part 1) Relocate Sheco's Caney Creek 138 kV Substation Mastern Region Reliability Improvement Plan Divers 3 Inferim (Part 7)	ETI	Winter		Spproved	Design/Scoping	Designated in Canales date is being re-
Transmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Interim (Part 2) Jacinto-Lewis Creek: Convert to 230 kV operation. Add 450 MVA 230-138 Auto at Lewis Creek		Summer		Approved	Design/Scoping	* Projected In-Service date is being re- evaluated due to change in load forecast.
Transmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Interim (Part 3) Upgrade South Beaumont to Fontenot Corner 138 kV line	ETI	Summer	2011	Approved	Design/Scoping	* Projected in-Service date is being re- evaluated due to change in load
Transmission Service	Grand Gulf Uprale Project Upgrade Hartburg is Inland Crange to McLewis 230 KV line	5	201	11 Pro	posed & In Target	Design/Scoping	forecast. Project to increase the thermal capacity of the 230 kV line.
Transmission Reliability - Meeting Planning Criteria	Tamina - Cedar Hill Reconductor	ETI	Winter	2011 Pro	posed & In Target	Design/Scoping	
Transmission Reliability - Meeting Planning Criteria	Porter - Tamina: Replace Breaker/Switches	ETI	Fell 2	009	Approved	Design/Scoping	
Transmission Reliability - Meeting Planning Criteria Transmission Reliability -	Newton Bulk: Replace/Re-tap CT to increase rating on Holly Springs line Beaumont 69 kV Improvement Plan: Option 2	ETI	Summer	and a second sec	Approved Approved	Design/Scoping Construction	
Meeting Planning Criteria Transmission Reliability -	College Station 135kV Switching Station	ETT	Summer		Approved	Design/Scoping	
Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria	Close N.O and upgrade protection to create 3 terminal line Fawll: Upgrade 138/59 XV Auto	ETI	Summer	2009	Approved	Construction	
CP (Others)	Entergy 2010-2	Page 5 of 13	nstruction	n Plan			May 2009
CP (Others)	Entergy 2010-2		nstruction	n Plan			Mey 2009
CP (Others) Existing in 2009-2011 Construction Plan	Entergy 2010-2		istruction	n Pian	1	1	May 2009
Eristing in 2009-2011 Construction Plan New Addition New Addition	Entergy 2010-2		rstruction	n Pian			Mey 2009
Existing in 2009-2011 Constitution Plan New Addition	Entergy 2010-2			Current	2009 Fundir		Mey 2009
Eristing in 2009-2011 Construction Plan New Addition August 2009 Addition / Modification Project Driver Tratemission Reliability -	Project Name Acadiana Area Improvement Project	2012 Draft Cor			2009 Fundir Comments		s Other Comments
Existing in 2009-2011 Construction Plan New Addition August 2009 Addition / Modification Project Driver	Project Name Acadiana Area Improvement Project Phase 2 Project (2012) Construct new Labo Io Selers Road 200 KV Line	2012 Draft Cor	LE	Current Projected In- Service	Comments	Project Status	s Other Comments
Eristing in 2009-2011 Construction Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Transmission Reliability -	Project Name Acadiana Area Improvement Project Phase 3 Projects (2012)	2012 Draft Cor	LE	Current Projected In- Service	Comments	Project Statu Design/Scopin	
Existing in 2009-2011 Construction Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Reliability -	Project Name Acadiana Area Improvement Project Phase 2 Projects (2012) Construct new Labbe to Selfers Road 20 kV Line Add new 500 ky position for Cleace autornstrumer at Wells	2012 Draft Cor	LE GSL GSL	Current Projected In- Service 2012	Comments Approved Proposed &	Project Statu Design/Scopin	Other Comments Other Comments Project to replace upgrade of Nelson Moss Bluff as identified in ICT Base Plan
Eristing in 2009-2011 Construction Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria	Project Name Acadiana Area Improvement Project Phase 2 Project: (2012) Construct new Label to Selera Road 230 kV Line Add new 500 kV position for Clece autotransbriner at Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Tejac to Marydale: Upgrade 69 kV transmission line Libbloby-Hammond Build 230 kV Line	2012 Draft Cor		Current rojected In- Service 2012 2012 2012 2012	Proposed & Target Approved Approved	n Design/Scopin Design/Scopin Design/Scopin	Other Comments Other Comments Project to replace upgrade of Nelson Moss Bluff as identified in ICT Base Pian Increase thermal capacity of 59 KV iii ROW acquisition and permitting unde way. Accusistion and permitting unde way. Accusistion
Eristing in 2009-2011 Construction Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Veeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria	Project Name Acadiana Area Improvement Project Phase 2 Project (2012) Construct new Lable to Sellers Road 200 KV Line Add new 200 Ky patient for Clear Grove 220 KV Line Construct 2nd Cynergy to Precan Grove 220 KV Line Tejac to Marydale: Upgrade 59 KV transmission line Lableby-Hammond Build 220 KV Line Nelson to Mossville - Upgrade 138 KV Line	2012 Draft Cor		Current rojected In- Service 2012 2012 2012 2012 2012 2012 2013	Comments Approved Proposed & Target Approved Proposed & Target	Project Statu Design/Scopin Design/Scopin Design/Scopin Design/Scopin n Design/Scopin	Constants Other Comments Other Comments Project to replace upgrade of Nelson Moss Bluff as identified in ICT Base Print Increase thermal capacity of 59 KV in ROV accusition and permitting unde way. Accusitation and way. Accusitation and
Existing in 2009-2011 Construction Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - maeting Planning Criteria Transmission Reliability - meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria	Project Name Acadiana Area Improvement Project Phase 2 Project: (2012) Construct new Label to Selera Road 230 kV Line Add new 500 kV position for Clece autotransbriner at Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Tejac to Marydale: Upgrade 69 kV transmission line Libbloby-Hammond Build 230 kV Line	2012 Draft Cor		Current rojected In- Service 2012 2012 2012 2012	Comments Approved Proposed & Target Approved Approved Proposed &	Project Statu Design/Scopin Design/Scopin Design/Scopin Design/Scopin n Design/Scopin	Other Comments Other Comments Project to replace upgrade of Netson Moss Bluff as identified in ICT Base Pian Increase thermal capacity of 69 KV in Way. Accelerated ISD. Increase thermal capacity
Existing in 2009-2011 Constitution Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - maeting Planning Criteria Transmission Reliability - maeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria	Project Name Acadiana Area Improvement Project Phase 2 Project: (2012) Construct new Labbe to Sellers Road (20 KV Line Add new 500 Ky pation for Clead addremsformer at Welts Construct 2nd Dynergy to Pecan Grove (20 KV Line Tejac to Marydale: Upgrade (59 KV transmission line Labloby-Hammond Build (20 KV Line Construct And Seller (20 KV Line Nelson to Mossville - Upgrade (38 KV Line Construct new Willow Clein to Corway (20 KV Line	2012 Draft Cor		Current rojectad In- Service 2012 2012 2012 2012 2012 2013 2014	Comments Approved Proposed & Target Approved Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed &	Project Statu Design/Scopin n Design/Scopin Design/Scopin n Design/Scopin n Design/Scopin n Design/Scopin	Other Comments Other Comments Project to replace upgrade of Nelson Moss Biulf as identified in ICT Base Pian Increase thermal capacity of 59 KV III ROVM acquisition and permitting unde way. Accelerated ISD. Increase thermal capacity of 59 Increase thermal capacity of 59 Increase thermal capacity in 1 Increase thermal capacity in 1 Increase thermal capacity in 1
Eristing in 2009-2011 Construction Plan New Addition August 2009 Addition / Madre alon Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Transmission Reliability -	Project Name Acadiana Area Improvement Project Phase 2: Project (2012) Construct new Laboe to Sellers Road 200 kV Line Acad new 500 ky pation for Clead automathement Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Tejac to Marydele: Upgrade 59 kV transmission line Lableby-Hammond Build 230 kV Line Lableby-Hammond Build 230 kV Line Construct new Willow Clen to Conway 230 kV line Waterford 4: Blacktlart generator/interconnection	2012 Draft Cor		Current rojected In- Service 2012 2012 2012 2012 2012 2013 2014 2014	Comments Approved Proposed & Target Approved Proposed & Target Proposed & Target Approved	Project Statu Design/Scopin Oesign/Scopin Design/Scopin Oesign/Scopin Oesign/Scopin Oesign/Scopin Complete n Oesign/Scopin	
Existing in 2009-2011 Constitution Plan Werk Addition August 2009 Addition / Magust 2009 Addition / Magust 2009 Addition / Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability -	Project Name Acadiana Area Improvement Project Phase 2: Project (2012) Construct new Labe Io Sellers Road 200 kV Line Add new 500 ky pation for Clean Grove 230 kV Line Tejac Io Marydale: Upgrade 69 kV transmission line Labloby-Hammond Build 230 kV Line Relation to Mossville - Upgrade 138 kV Line Construct new Willow Glen to Conwey 230 kV line Waterford 4: Blackdard generator/interconnection Snakefarm to Kenner 115 kV Ine: Upgrade to 359 MVA. Bogalusa to Adams Creek 230 kV No. 2 - Upgrade terminal equipment at Bogaluse Dehift 115 kV Substation - Add 10 Ohm series reactor	2012 Draft Cor		Current rojected In- Service 2012 2012 2012 2012 2013 2014 2014 Winter 2010 Winter 2010	Comments Approved Proposed & Target Approved Proposed & Target Proposed & Target Proposed & Target Proposed & Target Approved Proposed & Target Approved	Project Statu Design/Scopin n Oesign/Scopin Design/Scopin Oesign/Scopin n Design/Scopin n Design/Scopin n Design/Scopin n Design/Scopin n Design/Scopin Design/Scopin Design/Scopin	
Existing in 2009-2011 Constitution Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - meeting Planning Criteria Transmission Reliability - meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria Meeting Planning Criteria	Project Name Acadarus Area Improvement Project Protect (2012) Construct new Lebah Seales Road 30.0 V Line Add new 200 V profilion for Course address/share at Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Tejac to Marydalic: Upgrade 59 kV transmission line Lobloky-Hammond Build 230 kV Line Nelson to Mossville - Upgrade 138 kV Line Construct new Wildow Glen to Corway 230 kV line Weldford 4. Blacklant generation interconnection Snakefam to Acement 115 kV line. Upgrade to 359 MVA. Bogalusa to Adams Creek 230 kV No. 2 - Upgrade terminal equipment at Bogaluse Delife 116 kW Gubilation - Add 10 Ohm series reactor Sarepta Project RU LouisandSouth Advantas Vollage Support Plan Construct a new X45-115 XV studiation consisting of a 500 MVA ado Cut station Inte Li Dorado to Corway 200 KV line	2012 Draft Cor		Current Projected In- Service 2012 2012 2012 2012 2013 2014 2014 Winter 2009 Winter 2010	Comments Approved Proposed & Target Approved Proposed & Target Proposed & Target Proposed & Target Proposed & Target	Project Statu Design/Scopin	
Existing in 2009-2011 Constitution Plan New Addition August 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Planning Criteria Reliability - Meeting Planning Criteria	Project Name Acadama Area Improvement Project Project (2012) Construct 2nd Optimics Road 30.0 V Line Addrew 500 W position for Clacc undersmither at Wells Construct 2nd Optimics Road 23.0 V Line Tejac to Marydale: Upgrade 59 XV transmission line Lobleky-Hammond Build 230 KV Line Nelson to Mossville - Upgrade 59 XV transmission line Lobleky-Hammond Build 230 KV Line Nelson to Mossville - Upgrade 138 KV Line Construct new Wildow Glen to Corway 230 KV line Wateford 4. Blacktaint generator interconnection Snakdam to Kenner 115 KV line: Upgrade 138 SV Line Delifs 115 KV Build 100 Ohm series reactor Sanakdam to Kenner 115 KV line: Upgrade to 359 MVA. Bogalusa to Adams Creek 230 KV No. 2 - Upgrade terminal equipment at Bogalusa Delifs 115 KV Moubilation- Add 10 Ohm series reactor Sanakdam to E. Dorzeo to Convego 230 KV line. Mol 23 AVMAR capezitor bank at Luckey 115 KV subdation 400 Add 32 A MMAR capezitor bank at Luckey 115 KV subdation 409	2012 Draft Cor		Current Projected In- Service 2012 2012 2012 2013 2014 2014 2014 2014 Winter 2010 Winter 2010 2011	Comments Approved Proposed & Target Approved Proposed & Proposed & Proposed Approved Proposed Approved Approved Approved Approved	Project Statu Design/Scopin Oesign/Scopin Design/Scopin Oesign/Scopin n Design/Scopin n Design/Scopin Complete n Design/Scopin Design/Scopin Design/Scopin	Other Comments Other Comments Project to replace upgrade of Nelson Moss Bluff as identified in ICT Base Plan Increase thermal capacity of 59 KV III Rorease thermal capacity Increase thermal capacity Accelerated one year Accelerated one year
Existing in 2009-2011 Construction Plan New Addition August 2009 Addition 7 Magnat 2009 Addition 7 Magnat 2009 Addition 7 Magnat 2009 Addition 7 Magnation 2009 Addition 7 Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria	Project Name Acadiania Area Improvement Project Phate 2 Project 2012 Construct new Labbe to Selfers Road 200 kV Line Add new 500 kV patitoh for Cleace authornsprimer at Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Tejac to Marydale: Upgrade 69 kV transmission line Cobiolity Hammond Build 200 kV Line Nelson to Mossville - Upgrade 198 kV Line Construct new Willow Glen to Convey 230 kV line Watedroff 4: Blackstart generator Interconnection Snakefarm to Kenner 115 kV line: Upgrade to 359 MVA Bogalusa to Adams Creek 230 kV line Zenstruct new Self Self V Line 2014 Safetart To Kenner 115 kV line: Upgrade to 359 MVA Bogalusa to Adams Creek 230 kV No: 2 - Upgrade terminal equipment at Bogalusa Dates 115 kV Substitation - Add 10 Other seles reacter Safetar Project RWA Louistan/Routh Artismas Vallage Support Plan Construct new 54-115 kV Vallation consisting of a 300 MVA ado Cut station into EL Doceado to Longreed 34 kV line Add 32 AV MAR Longestor bank at Vierne 115 kV substation 100 Southeast LA Coastal Improvement Plan: Phase 3	2012 Draft Cor		Current rojected In- Service 2012 2012 2012 2012 2013 2014 2014 2014 Winter 2010 Winter 2010	Comments Approved Proposed & Proposed & Proposed & Proposed & Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target	Project Statu Design/Scopin Oesign/Scopin Design/Scopin Design/Scopin Oesign/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin	
Existing in 2009-2011 Construction Plan New Addition August 2009 Addition / Madhr ation Project Driver Transmission Reliability- Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria Criteria Transmission Reliability- Meeting Planning Criteria Construction Criteria Transmission Reliability- Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria	Project Name Acadiana Area Improvement Project Project Name Acadiana Area Improvement Project Project 2012 Construct new Lebe to Selfers Road 200 kV Line Add new 500 kV patition for Clock autoinstantimer at Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Teijac to Marydale: Upgrade 69 kV transmission line Lobidity-Hammond Build 230 kV Line Nelson to Mossville - Upgrade 198 kV Line Construct new Willow Glen to Conway 230 kV line Watedroft 4: Blackistant generator Interconnection Snakefarm to Kenner 115 kV line: Upgrade to 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV Ine Construct Respecto bank at Ucrey 115 kV statistion 410 Add 324 v MAR Creapecto bank at Verme 115 kV statistion 1000 Southmat IL Constal Ingrovement Planer Phare 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK VALdotars/from Planer Planer 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK VALdotars/from Planer Planer 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK VALdotars/from Planer Planer 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK VALdotars/from Planer Planer 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK VALdotars/from Planer Planer 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK VALdotars/from Planer Planer 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK VALdotars/from Planer Planer 3 Construct OakVille Ion Allance 200kV Line Add 230 v INK	2012 Draft Cor		Current trojected in- Service 2012 2012 2012 2012 2013 2014 turmer 2020 Winter 2010 2011 2011 2012 2012	Comments Approved Proposed 6. Target Approved Approved Proposed 6. Target Proposed 6. Target Proposed 6. Target Proposed 6. Target Proposed 6. Target Proposed 6. Target Proposed 6. Target Proposed 6. Target Proposed 6. Target Proposed 6. Target	Project Statu Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Complete n Design/Scopin Complete n Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin	
Eristing in 2009-2011 Construction Plan New Addition August 2009 Addition / Magust 2009 Addition / Magust 2009 Addition / Magust 2009 Addition / Magust 2009 Addition / Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Ecotomic Transmission Reliability - Meeting Planning Criteria Ecotomic Transmission Reliability - Meeting Planning Criteria	Project Name Acadiana Area Improvement Project Project Name Acadiana Area Improvement Project Construct new Labbe to Sellers Road 200 kV Line Add new 500 kV patition for Clean Cautoranshmirer at Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Tejac to Marydale: Upgrade 59 kV Immunision line Lablody-Hammond Build 230 kV Line Alson to Motsville - Upgrade 59 kV Immunision line Lablody-Hammond Build 230 kV Line Construct new Willow Glen to Conway 230 kV line Waterford 4: Blackstart generator Interconnection Snakefarm to Kenner 115 kV line: Upgrade to 359 kVA Bogalius to Adams Creek 230 kV No: 2 - Upgrade terminal equipment at Bogalius Delife 115 kV Substation - Add 10 Ohm series reactor Saregla Project (NWL Louislama/South Arkanass Voltage Support Plane Construct new 34-118 kV substation consisting of a 300 MVA ado Cut station into EL Dereado to konywood 348 kV line. Add 32 A MARA capacite bank at Vienne 115 kV substation 400 Add 324 A MARA capacite bank at Vienne 115 kV substation 400 Add 234 - 114 kA dottoranformer at Alance Substation Add 234 - 114 kA dottoranformer at Alance Substation Add 234 - 114 kA dottoranformer at Alance Substation Add 234 - 114 kA dottoranformer at Alance Substation Build Plane Roboo Caskille 230kV Line at Alance Substation Add 234 - 114 kA dottoranformer at Alance Substation Add 234 - 114 kA dottoranformer at Alance Substation	2012 Draft Cor		Current Projected In- Service 2012 2012 2012 2013 2014 2014 2014 2014 Winter 2010 2011 2011 2011	Comments Approved Proposed & Proposed & Proposed & Proposed & Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target	Project Statu Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Complete n Design/Scopin Complete n Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin	
Eristing in 2009-2011 Constitution Plan Maguat 2009 Addition / Modification Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Planning Criteria Meeting Planning Criteria	Project Name Acadiana Area Improvement Project Project Name Acadiana Area Improvement Project Project 2012 Construct new Lebe to Selfers Road 200 kV Line Add new 500 kV patition for Clock autoinstantimer at Wells Construct 2nd Dynergy to Pecan Grove 230 kV line Teijac to Marydale: Upgrade 69 kV transmission line Lobidity-Hammond Build 230 kV Line Nelson to Mossville - Upgrade 198 kV Line Construct new Willow Glen to Conway 230 kV line Watedroft 4: Blackistant generator Interconnection Snakefarm to Kenner 115 kV line: Upgrade to 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV No: 2 - Upgrade Ion 359 MVA Begatuse to Adams Creek 230 kV Ine Construct Respecto bank at Ucrey 115 kV statistion 410 Add 324 v MAR Creapecto bank at Verme 115 kV statistion 1000 Southmat IL Constal Ingoveen Planer Plane			Current trojected in- Service 2012 2012 2012 2012 2013 2014 turmer 2020 Winter 2010 2011 2011 2012 2012	Comments Approved Proposed & Target Approved Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target Proposed & Target	Project Statu Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Complete n Design/Scopin Complete n Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin Design/Scopin	Conter Comments Other Comments Project to replace upgrade of Nelson Moss Bluff as identified in ICT Base Pian RoW acquisition and permitting unde way. Accelerated ISD. Increase Thermal capacity of 59 kV is RoW acquisition and permitting unde way. Accelerated ISD. Increase 230 kV hermal capacity in 1 Increase 230 kV hermal capacity in 1 Increase 230 kV source to the Allianc year Accelerated one year Accelerated one year Accelerated one year Provides 230 kV source to the Allianc three. Provides 230 kV source to the Allianc Arcelerated one year Provides 230 kV source to the Allianc Provides 230 kV source to the Allianc Provides third path from GyopyWateford area to Tezcuco. Replaces Belle Point to Dopy 230 kV Increuprade Identified in the ICT Base Pian.

ſ

Page: 5

Number: 1 Author: claudiu.cadar Subject: Sticky Note Date: 8/10/2009 8:44:30 PM REV2 Improper input for the proposed size of cap bank at 337054 (see "10CP EMI Grenada-Winona-Greenwood Area Improvement Phase I.idv")

REV1 Improper input for the proposed size of cap bank at 337054 (see "EMI 2011S Tillatoba-SouthGrenada_LineandAuto_newnum-phase I - caps.idv)

Number: 2 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:30 AM REV2 Issue resolved. Ignore error messages regarding bus 336923 (doesn't exist) and branch 336918-336920 Livingston -Sunnybrook

REV1 Improper command definition bat_bsys; however, bus 336923 is not a valid bus in EES.

Number: 3 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:24 AM REV2 Warren project doesn't have a correspondent IDV

REV1 Warren project doesn't have a correspondent IDV

Number: 4 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:41:21 AM REV2 Sheco project doesn't have a corresponding IDV

REV1 Sheco project doesn't have a corresponding

IDV

Number: 5 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:42:48 AM REV1 Grand Gulf project doesn't have a corresponding IDV

Number: 6 Author: claudiu.cadar Subject: Sticky Note Date: 8/10/2009 8:44:50 PM REV2 One of the two IDV's pertaining Loblolly-Hammond 230KV line to be excluded from the REV2 ZIP file (duplicate data)

Number: 7 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:40:27 AM REV2 IDV file "09CP ELL-S Snakefarm-Kenner 115kV Upgrade (Rating Pending).idv" to be removed from the ZIP (duplicates "09CP 2010W Proposed ELL-S Snakefarm-Kenner 115kV Upgrade (Rating Pending).idv" file)

Number: 8 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:40:21 AM REV2 IDV file "09CP 2012 ELL-S BayouSteel-Tezcuco230kV Line.idv" to be removed from the ZIP (duplicates "09CP 2012 Proposed ELL-S BayouSteel-Tezcuco230kV Line.idv" file)

Number: 9 Author: claudiu.cadar Subject: Sticky Note Date: 8/10/2009 8:45:00 PM REV2 The item should have been highlighted as for projects that have recorded modifications since there are several changes in REV2 versus REV1 (conductor size for a couple of proposed transmission lines, additional cap bank, etc)

Existing in 2009-2011						
Construction Plan New Addition			Current			
Project Driver Transmission Service		LE :	Service	2009 Funding Comments Approved	Project Status Design/Scoping	Other Comments
Transmission Service	Upgrade switches at Motion Upgrade South Jackson - Florence 115 kV line		nmer 2012	Approved	Design/Scoping	
	Monette-Paragouid 161KV Transmission Line – Upgrade to 170 MVA Upgrade the Russelville South-Dantanelle Dam (SPA) 161KV Transmission Line			C PP VOID		
			-			
			-			
		_	_			
⁹ (Others)	Page 6	of 13				May 20
CP (Others)	Page 6 Entergy 2010-2012 Dra		tion Plan			May 20
Existing in 2009-2011			tion Plan		1	Mey 20
Existing in 2009-2011 Construction Plan New Addition New Addition			tion Plan			May 20
Existing in 2009-2011 Construction Plan Way Addition Vaguat 2009 Addition / Joodfication	Entergy 2010-2012 Dra	aft Construc	Current Projected	In- 2009 Fundi	19	
Existing in 2009-2011 Construction Plan Ward Addition August 2009 Addition / Modification Project Driver renaminisation Reliability -	Entergy 2010-2012 Dra Entergy 2010-2012 Dra Project Name Bogue Chito 500/20 kV Substation: Quiston 1: Tap the Bogaloua - Ramsey 230 kV Line Construct a New 500-230 kV Substation Tap the Bogaloua - Taitshek Substation Tap the Bogaloua - Taitshek Substation Substations Into Bogue Chitto Upgrade New Bogue Chitto to Madisonville 230 kV Ine Copino 2:		Current	In- 2009 Fundi	Project Status	Conter Comments Requires coordination with neighbors Utilities, Replaces Brochaven to
Existing in 2009-2011 Genstruction Plan ierry Addition Jugust 2009 Addition / Jugust 2009 A	Entergy 2010-2012 Dra Project Name Bogue Chitlo 500/230 kV Substation: Coption 1: Tap the Daniel - McKnight 500 kV Line Construct a New 500-230 kV Substation: Tap the Boguiae - Ramey 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade New Bogue Chitlo Addisonitie 230 kV Ine	aft Construct	Current Projected Service 2013	In- 2009 Fundi Comment Proposed & Target	Project Status in Design/Scoping	Comments Requires coordination with neighbo utilities, Replaces Brochhaven to Maillieu an Averheid Maillieu an Averheid Maillieu an Averheid In CT Base Plan
Existing in 2009-2011 Construction Plan Wer Addition Vogunt 2009 Addition / Joodfication Project Driver Fransmission Reliability - Jeeting Planning Oriteria Fransmission Reliability - Jeeting Planning Oriteria (ransmission Reliability -	Entergy 2010-2012 Dra Project Name Bogue Chitlo 500/230 kV Substation Project Name Bogue Chitlo 500/230 kV Substation Fap the Bogaluse - Tailsheek 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade Nwaise - Ramsey 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade Nwaise - Ramsey 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade Nwaise - Ramsey 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade Nwaise - Ramsey 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade Nwaise - Ramsey 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade Nwaise - Ramsey 230 kV Line Terminating Both Sections Into Bogue Chitlo Upgrade Nwaise - Ramsey 230 kV Line In and out of Bogalusa 500 kV Substation	LE ELL	Current Projected Service 2013	In- 2009 Funding Comments Proposed & Target	Project Status Design/Scoping Complete	Other Commants Requires coordination with neighbor Utilities. Replaces Brookhaven to Mattike un Northel Mattikeu IN Northel Mattikeu IN Northel Mattikeu IN Northel Mattikeu IN Northel Project required to maintain resistabili the Natchez area after Loss of local generation Improve reliability in the Greenwood area
Existing in 2005-2011 Construction Plan Nugust 2009 Addition / Modification	Entergy 2010-2012 Dra Project Name Bogue Childs 500/230 kV Substation: Option 1: Tap Ine Bogiana - Ramey 230 kV Line Construct Any 500-230 kV Substation Tap Ine Boguina - Ramey 230 kV Line Construct Any 500-230 kV Substation Tap Ine Boguina - Ramey 230 kV Line Option 2: Loop the Damie - McKnigt god V Line For Natichas 200 kV are Option 2: Loop the Damie - McKnigt god VL Line For Natichas 200 kV substation Line thy-Goddar - Upgrade 115 kV Line For Natichas 200 kV substation Line thy-Goddar - Upgrade 115 kV Line For Natichas 200 kV substation Line thy-Goddar - Upgrade 115 kV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV substation Line thy-Goddar - Michael Sol KV Line For Natichas 200 kV line	LE ELL	Current Projected I Service 2013	In- 2009 Fundin Comment Proposed & Target	Project Status Design/Scoping Complete Design/Scoping	Other Commants Requires coordination with neighbor Utilities, Replaces Brookhaven to Maillieu and Maillieu to Norffeld pro Identified in ICT Base Plan Project required to mainfain reliabilit ble Natchez area after loss of local generation Inter reliability in the Greenwood Need Mobile Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with SMEPA Project to Increase the capability MBI SMEPA in contraination with smertaination
Existing in 2009-2011 Construction Plan Ware Addition Nuguat 2009 Addition / Joodt auton Project Driver Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria	Entergy 2010-2012 Dra Project Name Bogue Chitto 500/230 kV Substation: Option 1: Tap the Bogalous – Ramsey 230 kV Line Terminating Both Sections Into Bogue Chitto Upgrade New 500-230 kV Substation Construct Answer 300 kV Line in and out of Bogalous 100 kV Substation Upgrade New Bogue Chitto to Madison/lite 230 kV line Option 2: Loop the Daniel – McKnight 500 kV Line in and out of Bogalous 500 kV Substation Upgrade New Bogue Chitto to Madison/lite 230 kV line Option 2: Loop the Daniel – McKnight 500 kV Line in and out of Bogalous 500 kV Substation Upgrade New Bogue Chitto to Madison/lite 230 kV line Option 2: Loop the Daniel – McKnight 500 kV Line in and out of Bogalous 500 kV Substation Upgrade Terminal Equipment at Monhaed. Its Benz, and Greenwood Magee 115 kV Substation: Replace Switches TVA Affected System Upgrades 15 V Substation: Upgrade 1	LE ELL ELL EM	Current Projected Service 2013 Summer 20 Winter 201	2009 Fundi Comments Proposed & Target 3 3 3 4	Project Status Design/Scoping Complete Design/Scoping Complete Design/Scoping Construction	Conter Comments Requires coordination with neighbor Utilities, Replaces Brookhaven to Maillieu and Maillieu to Northeld pr dentified in ICT Base Plan Project required to maintain reliability the Natchaz area after loss of local generation Improve reliability in the Greenwood area Need Mobile Neight De Increase lie capability with SMEPA in coordination with SMEPA
Existing in 2009-2011 Constitution Plan Way Addition August 2009 Addition / Modification Project Driver Fransmission Reliability- Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria Transmission Reliability- Meeting Planning Criteria	Entergy 2010-2012 Dra Project Name Bogue Childs 500/230 kV Substation: Option 1: Top The Daniel - McKnight 500 kV Line Construct a Nave 500-230 KV Substation Construct a Nave 500-230 KV Substation Top the Bogalusa - Taitanek 2:30 kV Line Terminating Both Sections Into Bogue Chilto Upgrade New Bogue Chilto to Madison/lile 2:30 kV line Coption 2: Loop the Daniel - McKnight 500 kV Line: to 1:01 MVA Upgrade New Bogue Chilto INV Line: Upgrade Inte to 1:01 MVA Upgrade Terminating Equipment di Nonhead; Itile Blena, and Greenwood Magee 115 kV Substation: Upgrade Inte to 1:01 MVA Upgrade Terminating Equipment di Nonhead; Itile Blena, and Greenwood Magee 115 kV Substation: Upgrade Inte to 1:01 MVA Upgrade Terminating Equipment di Nonhead; Itile Blena, and Greenwood Magee 115 kV Substation: Upgrade Simologia Blogales 2:00 kV-Blogales TVA Affected System Upgrades Nedmon 1:15 kV Line: Upgrade Ion All explanes TVA Affected System Upgrades Nedmon 1:15 kV Line: Upgrade Ion All explanes TVA Affected System Upgrades Nedmon 1:15 kV Line: Upgrade Ion All explanes TVA Affected System Upgrades Nedmon 1:15 kV Line: Upgrade Ion All explanes TVA Affected Explanes Nedmon 1:15 kV Line: Upgrade Ion All explanes TVA Affected Explanes Nedmon 1:15 kV Line: Upgrade Ion All explanes TVA Affected Explanes	LE ELL ELL EM	Current Projected Service 2013 Summer 20 Winter 201	Image: Approved Approved Approved Approved	Project Status Project Status Design/Scoping Complete Design/Scoping Design/Scoping Design/Scoping	Other Commerts Requires coordination with neighbor Malliss, Replaces Brookhaven to Malliss, and Mallikeu to Norffeld pr Identified in ICT Base Plan Project required to maintain reliabilit The Natchez area affer loss of local generation Improve reliability in thm Greenwood area Need Mobile Project In Incoaste Incapability MS Support of Iniciaation affer Need Mobile Project Iniciaation affer Need Mobile Project Iniciaation affer Support Marge cSMPA would not allow necessary outages thus project delayed) Project to increase the thermal capa
Existing in 2009-2011 Construction Plan Were Addition Very Addition Project Driver Fransmission Reliability - Meeting Planning Criteria Plansmission Reliability - Meeting Planning Criteria Transmission Reliability - deeting Planning Criteria Transmission Service Transmission Service Transmission Service	Entergy 2010-2012 Dra Project Name Bogue Childs 500/230 kV Substation: Goption 1: Tap Ine Bogiana - Ramsey 230 kV Line Construct Any 500-230 kV Substation Tap Ine Bogiana - Ramsey 230 kV Line Construct Any 500-230 kV Substation Tap Ine Bogiana - Ramsey 230 kV Line Option 2: Loop the Damie - Mickington 200 kV Line in Construct Any 500 kV Substation Line Try Construct Any 500 kV Line Kong and the Station of Bogue Childs Option 2: Loop the Damie - Mickington 200 kV Line For Natichez Ox-Bating Indianola-Greenwood 115 kV Line i Lograde line to 151 MVA Upgrade Terminal Equipment at Morehead, Itta Bena, and Greenwood Magee 115 kV Substation: Line Lograde line to 151 MVA Upgrade Terminal Equipment at Morehead, Itta Bena, and Greenwood Magee 115 kV Substation: Line Lograde line to 150 A. South-Jackson, Reg branewit 000 kV Line: Ling grade line and SMKA. Grand Guit Lipitale Project Boster Wittoon - Reg branewit 000 kV Line: Ling grade line and SMKA. Grand Guit Lipitale Project Boster Wittoon - Reg branewit 000 kV Line: Lipitade Bradestan and SMKAtes to 3000 A. Frendominona/Greenwood 100 kV Line: Lipitade Bradestan and SMKAtes to 3000 A. Frendominona/Greenwood 100 kV Line: Lipitade Bradestan and SMKAtes to 3000 A. Frendominona/Greenwood 100 kV Line: Lipitade Bradestan and SMKAtes to 3000 A.	LE ELL ELL EM EM	Current Projected I Service 2013 Summer 20 Winter 201 2010 Summer 20	Implementation Proposed & Target Proposed & Target Target Approved Approved Approved Approved Approved Approved Proposed & Proposed &	Project Status Project Status Design/Scoping Complete Design/Scoping Construction Design/Scoping Design/Scoping Design/Scoping	Cher Comments Requires coordination with neighbor Mittiles. Replaces Brochware to Mailtieu and Maillieu to Norffeld pr Identified in ICT Base Plan Project required to maintain reliabili Project required to maintain reliabili Project to increase the capability with SMEPA in coordination with SMEP upgrade of their aud/charatomerse Magee (SMEPA Nood not all SMEP) upgrade of their aud/charatomerse Magee (SMEPA Nood not all SMEP) Project to increase the themat capa
Existing in 2009-2011 Construction Plan Were Addition Very Addition Project Driver Fransmission Reliability - Meeting Planning Criteria Plansmission Reliability - Meeting Planning Criteria Transmission Reliability - deeting Planning Criteria Transmission Service Transmission Service Transmission Service	Entergy 2010-2012 Dra Project Name Bogue Childs 500/200 kV Substation: Option 1: Tap the Bogaluse - Rainsey 200 kV Line: Option 2: Loop the Daniel - McKnight 500 kV Line: Construct a Nave 500-200 KV Substation Upgrade New Bogue Childs Statution Liberty-Global Statution Liberty-Global TS KV Line: Toprade line to 161 MVA Upgrade Temmat Equipment al Monhead; Itie Blena, and Greenwood Magee 115 KV Substation: TA Affected System Upgrades Number 115 KV Line: Upgrade line to 1500 A South Jackson - Province 115 KV Line: Upgrade line to 1500 A South Jackson - Province 115 KV Line: Upgrade line to 1500 A South Jackson - Province 115 KV Line: Upgrade line to 300 AV-3000-3000 A	EMI EMI EMI	Current Projected 2013 Summer 20 Winter 201 2010 Summer 20 Summer 20	Proposed & Proposed &	Project Status Project Status Design/Scoping Complete Design/Scoping Construction Design/Scoping Design/Scoping Design/Scoping	Other Commants Requires coordination with neighbor Utilities. Replaces Brookhaven to Maillieu and Maillieu to Norffeld pr identified in ICT Base Plan Project required to mainfain reliabil the Natchaz area after loss of local the Natchaz area after loss of local more after the Common and the State Project to increase the capability in the Mage (SMEPA in coordination with SMEPA Nord Mobie Project to increase the themat cap of their audorantformer more after Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of the Soo V line. Accelerated IS Project to increase the themat cap of themat cape of t
Edisting in 2009-2011 Constitution Plans teer Addition Nuguat 2009 Addition / Muguat 2009 Addition / Muguat 2009 Addition / Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Service Transmission Service Transmission Service Transmission Service Transmission Service Transmission Service Transmission Service Transmission Service	Entergy 2010-2012 Dra Project Name Project Name Boyue Childs 500/230 kV Substation: Project Name Boyue Childs 500/230 kV Substation: Tap the Boyalina - Rammay 230 kV Line Construct a New 500-230 kV Substation Tap the Boyalina - Tailsheke 200 kV line Construct a New 500-230 kV Substation Tap the Boyalina - Tailsheke 200 kV Line Construct a New 500-230 kV Substation Tap the Boyalina - Tailsheke 200 kV line Construct a New 500-230 kV Substation Upgrade New Boyue Childs Upgrade New New Childs Upgrade New Boyue Childs Upgrade New Boyue Childs New Statistion: Upgrade New Boyue Childs South Jackson - Forence 115 kV Line: Upgrade Breatewa and Switches to 300A Great Child Childs New Statistion: Instal 21.5 MAR Capacitor Bark Schilder - 115 kV Substation: Instal 21.5 MAR Capacitor Bark Schilder - 115 kV Substation: Instal 21.5 MAR Capacitor Bark Schilder - 15 kV AR Capacitor Bark	Aft Construct LE ELL ELL ELL ELL ELL ELL ELL ELL ELL	Current Projected Service 2013 Summer 20 Winter 201 2010 Summer 20 Summer 20 Summer 20	Image: Approved Approved Approved Approved Approved Approved Approved Approved Approved Proposed & Target	Project Status in Design/Scoping Complete Design/Scoping Design/Scoping Construction Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping In Design/Scoping	Other Commants Requires coordination with neighbor Utilities. Replaces Brookhaven to Maillieu and Maillieu to Norffeld pr identified in ICT Base Plan Project negured to mainfain reliabil the Matchaz area after loss of local properties Project to increase the capability in the SMEPA in coordination with singles Project to increase the themat cap of their audotransformers Project to increase the themat cap of project to increase the themat cap of the Solo Wine. Accelerated Project to increase the themat cap of the Solo Wine. Accelerated Project to increase the themat Cap of the Solo Wine. Accelerated Project to increase the themat Cap of the Solo Wine. Accelerated Project to increase the themat Cap of the Solo Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project to increase themat Capacity If S Wine. Accelerated Project
Existing in 2009-2011 Construction Plan Were Addition Very Addition Project Driver Fransmission Reliability - Meeting Planning Criteria Plansmission Reliability - Meeting Planning Criteria Transmission Service Transmission Service Transmission Service Transmission Service Transmission Service	Entergy 2010-2012 Dra Project Name Bogue Childs 500/230 kV Substation: Project Name Bogue Childs 500/230 kV Substation: Coption 1: Tap the Boguina - Ramsey 230 kV Line: Construct Any 500-230 kV Substation Tap the Boguina - Ramsey 230 kV Line Terminating Both Sections Into Bogue Childs Construct Any 500-230 kV Substation Tap the Boguina - Ramsey 230 kV Line Terminating Both Sections Into Bogue Childs Option 1: Loop the Damie - McKright 500 kV Line into and of Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line For NatChez Ox-Bating Indianola-Greenwood 115 kV Line For NatChez Ox-Bating Indianola-Greenwood 115 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and any 200 kV Digrade Terminal Equipment at Morehead, Itta Bena, and Greenwood Maget 115 kV Substation: Lingpade 500 A Swetches to 1300 A South Jackson - Rey bravel (100 kV Line: Lingpade Inte 1as 240 MVA South Jackson - Rey bravel (200 kV Line: Lingpade Inte 1as 240 MVA Greand Guit Uprate Project Greenwood 115 kV Line: Lingpade Inte 200 kV Line South 300 kV Substation: Lingpade 2.5 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Line: Lingpade Intel 10 Bank Kernewood 115 kV Line: Lingpade Intel 10 Bank Greenwood 115 kV Line: Lingpade Intel 10 Bank Kernewood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Line: Lingpade Intel 10 Bank Kernewood 115 kV Line: Lin	EM EM EM EM EM EM	Current Projected I Service 2013 Summer 20 Winter 201 2018 Summer 20 Summer 20 2010 Summer 20 2010	Implementation Proposed & Transet Proposed & Transet Proposed & Transet Proposed & Approved Approved Approved Approved Approved Proposed & Transet Proposed & Transet	Project Status Project Status Design/Scoping Complete Oesign/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping	Other Commants Requires coordination with neighbor Italian and the segment of the sector sector segment of the sector sector segment of the sector s
Existing in 2009-2011 Construction Plan Very Addition Nuguat 2009 Addition / Muguat 2009 Addition / Muguat 2009 Addition / Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Service Transmission Service Transmission Service Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria Transmission Reliability - Meeting Planning Criteria	Entergy 2010-2012 Dra Project Name Bogue Chills 500/20 kV Substation: Project Name Bogue Chills 500/20 kV Substation: Control a Nov 500-20 kV Substation: Control a Nov 500-20 kV Substation: Top the Bogaluse - Ramsey 200 kV Line Construct a Nov 500-20 kV Substation Tap the Bogaluse - Taitabek 200 kV Line Construct a Nov 500-20 kV Substation Leop the Daniel - McKnight 500 kV Line Construct a Nov 500-20 kV Substation Leopthol Child Status - Taitabek 200 kV Ine Construct a Nov 500-20 kV Substation Leoptholmet - McKnight 500 kV Line in and out of Bogaluse 500 kV Substation Leoptholmet - McKnight 500 kV Line in and out of Bogaluse 500 kV Substation Leoptholmet - McKnight 500 kV Line in and out of Bogaluse 500 kV Substation Leoptholmet - McKnight 500 kV Line in and out of Bogaluse 500 kV Substation Leoptholmet - McKnight 500 kV Line in and out of Bogaluse 500 kV Substation Leoptholmet - McKnight 500 kV Line in and out of Bogaluse 500 kV Substation Leoptholmet - McKnight 500 kV Line in and out of Bogaluse 500 kV Substation Leoptholmet - McKnight 500 kV Line in 500 https:/// Monon 115 kV Substation: Lipprade Enables TVA Affected System Lipprades Monon 115 kV Substation: Install 21.6 M/AR Capacitor Bark 32.0 M/A Greandout Lipprade Finged Barter Witson - Ray Branwell 500 kV Line: Lipprade In at least 240 M/A Schlater 115 kV Substation: Install 21.6 M/AR Capacitor Bark Schlater 115 kV Substation: Install 21.6 M/AR Capacitor Bark Schlater 115 kV Substation: Install 21.6 M/AR Capacitor Bark Schlater 115 kV Substation: Install 21.6 M/AR Capacitor Bark Schlater - Th Allen (TVA) 161 kV Line: Lipprade Line 10.366 MVA Waterways - Vicksburg East 115 kV Line: Lipprade In at least 240 M/A	aft Construct LE ELL ELL ELL ELL ELL ELL ELL ELL ELL	Current Projected Service 2013 Summer 20 Winter 201 2010 Summer 20 Summer 20 2010 Summer 20 2010	Image: Approved Proposed & Target Proposed & Proposed & Target OI Approved Approved Approved Approved Proposed & Target Target Proposed & Proposed	Project Status in Design/Scoping Complete Design/Scoping Design/Scoping Design/Scoping Design/Scoping Design/Scoping In Design/Scoping In Design/Scoping Design/Scoping Design/Scoping In Design/Scoping In Design/Scoping	Requires coordination with neighbor utilities. Replaces Brockhaven to Maillieu and Maillieu to Norffeld pro Identified in ICT Base Plan Project required to maintain reliabilit the Natchas area after foss of local provide tradition of the National Coordination (Internation) Project Is increase in the capability of the Nate Mobile Project Is increase in capability MEP Auge coMethy would not allow necessary outages thus project delayed) Project to increase the themal capa of the 500 kV line. Accelerated ISD Project to increase the themal capa of the 500 kV line. Accelerated ISD Project to increase the themal capa of the 500 kV line. Accelerated ISD Project to increase the themal capacity provides better value. Accelerated Project to increase the themal capacity 115 kV line. Accelerated ISD Project to increase the themal capacity 115 kV line. Accelerated Project to increase the themal capacity 115 kV line. Accelerated ISD Project to increase the themal capacity 115 kV line Socker area to the themal capacity 115 kV line. Accelerated ISD Project to increase the themal capacity 115 kV line. Accelerated ISD Project to increase the themal capacity 115 kV line. Accelerated ISD Project to increase the themal capacity 115 kV line. Accelerated ISD from 2011 to 2010.
Existing in 2009-2011 Construction Plan Servi Addition Nuguat 2009 Addition / Muguat 2009 Addition / Muguat 2009 Addition / Mugat 20	Entergy 2010-2012 Dra Project Name Bogue Childs 500/230 kV Substation: Project Name Bogue Childs 500/230 kV Substation: Coption 1: Tap the Boguina - Ramsey 230 kV Line: Construct Any 500-230 kV Substation Tap the Boguina - Ramsey 230 kV Line Terminating Both Sections Into Bogue Childs Construct Any 500-230 kV Substation Tap the Boguina - Ramsey 230 kV Line Terminating Both Sections Into Bogue Childs Option 1: Loop the Damie - McKright 500 kV Line into and of Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line For NatChez Ox-Bating Indianola-Greenwood 115 kV Line For NatChez Ox-Bating Indianola-Greenwood 115 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and or Boguina 500 kV Substation Loop the Damie - McKright 500 kV Line into and any 200 kV Digrade Terminal Equipment at Morehead, Itta Bena, and Greenwood Maget 115 kV Substation: Lingpade 500 A Swetches to 1300 A South Jackson - Rey bravel (100 kV Line: Lingpade Inte 1as 240 MVA South Jackson - Rey bravel (200 kV Line: Lingpade Inte 1as 240 MVA Greand Guit Uprate Project Greenwood 115 kV Line: Lingpade Inte 200 kV Line South 300 kV Substation: Lingpade 2.5 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Line: Lingpade Intel 10 Bank Kernewood 115 kV Line: Lingpade Intel 10 Bank Greenwood 115 kV Line: Lingpade Intel 10 Bank Kernewood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Substation: Intel 21.6 MVAR Capacitor Bank Greenwood 115 kV Line: Lingpade Intel 10 Bank Kernewood 115 kV Line: Lin	EM EM EM EM EM EM	Current Projected I Service 2013 Summer 20 Winter 201 2018 Summer 20 Summer 20 2010 Summer 20 2010	Proposed & Comment Proposed & Target 001 Approved 002 Approved 003 Approved 004 Approved 010 Approved 010 Approved 010 Approved 010 Approved 011 Approved 111 Proposed & Target Proposed & Target Proposed & Proposed &	 Project Status Project Status Design/Scoping Complete Design/Scoping 	Cither Commants Requires coordination with neighbor Utilities. Replaces Brookhaven to Maillieu and Maillieu to Norfield pr identified in ICT Base Plan Project required to maintain reliabili the Natchage and an after toos of local generation Improve reliability in the Greenwood area Project to increase the capability with SMEPA in coordination with SMEPP upgrade of their aud/orantformers at Magee (SMEPA Noval of no allow Magee Cather Noval N

Page: 6

Number: 1 Author: claudiu.cadar Subject: Sticky Note Date: 8/20/2009 10:43:00 AM REV2 Missing IDEV from the REV2 ZIP file. Project completed but the model does not include the changes (see "EMI IDEV Liberty-Gloster_Uprate_Line_To_176MVA_newnum.idv at REV1)



Entergy 2010-2012 Draft Construction Plan

Page 7 of 13

May 2009 Rev.

Entergy 2010-2012 Draft Construction Plan

Existing in 2009-2011						
Construction Plan		-	-	-		
						1
August 2009 Addition /						
			Current Projected In-	2009 Funding		
Project Driver	Project Name	LE	Service	Comments	Project Status	Other Comments
Transmission Reliability -	Ridgeland-Madison Reliability Improvement	EMI	2012	Proposed & In	Design/Scoping	Project to serve rapid load growth Nor
Meeting Planning Criteria	Rebuild Laksover - Ridgeland Line Build Laksover - Sunnybrook - Northpark 115 kV Line			Target	21.1851.202033	of Jackson. Accelerated ISD from 20
Transmission Service	Ouachta Transmission Service Move Sterlington 600 MVA auto to Baxter Wilson 500 (Second 500-115 kV auto)	EMI	2012	Approved	Design/Scoping	Final ISD's to be determined
Transmission Reliability - Meeting Planning Criteria	Grendad/Winona/Greenvood Area Improvement (Tillafoba auto attemative): Presa 2 Projects (2012) Tillafobe is South Grenada 230 KV Line: Construct New 520 MVA Line South Grenada 115 KV Substantion: Install 230 KV Bus and a 400 MVA 230-115 KV Autotransformer	EMI	2012	Proposed & In Target	Design/Scoping	Project to improve reliability in the are between Tilladoba. Indianola, and Atta for various 115 kV and 230 kV contingencies. Previous project was t add 2nd Tilladoba auto - this project provides better value. Accelerated IS
Transmission Reliability - Meeting Planning Criteria	Ray Brasweit - Wyndale - Byram 115kV Line: (Constructed at 230 kV but Operated at 115 kV)	EM	2013	Proposed & In Target	Design/Scoping	Project to alleviate overloads flowing south on the 115 kV system between Jackson and south Louisiana. ISD driven by CCN and ROW acquisition.
Transmission Reliability - Meeting Planning Criteria	Getwell Area Improvements. Getwell 2011 bK Substation: Install 2nd 392 MVA 230 KV / 115 KV Autobransformer Getwell - Hernando 118 KV Line: Construct 2nd Parallel 115 KV Line (Constructed at 230 kV but Operated at 115 kV)	EMI	2013	Proposed & In Target	Design/Scoping	Provide additional thermal capacity an allow future conversion to 230 kV. Addresses ICT 100 MW rule. Creates first leg of Getwell to Batesville 230 kV conversion as identified in the ICT Bat Plan.
Transmission Reliability - Meeting Planning Criteria	Paterson 115KV: Restore 4 breakers	ENO	Summer 2009	Approved	Construction	
Transmission Reliability -	Newton Bulk: Replace/Re-tap CT to increase rating on Holly Springs line	ED	Summer 2009	Approved	Design/Scoping	
Meeting Planning Otteria	nemal bait. Neplace/Nerap C i la scietze rainy of nony opinity are		Sommer 2003	A DIROVED	Cleardingrouping	
Transmission Reliability - Meeting Planning Criteria	Beaumont 69 kV Improvement Plan: Option 2	ETI	Summer 2009	Approved	Construction	
Generation Interconnection	Sheco Jacinto - Generator Interconnection	ETI	Summer 2009	Approved	Complete	
Transmission Reliability - Meeting Planning Criteria	Fawii: Upgrade 138/69 kV Auto	ETI	Winter 2009	Approved	Construction	Delayed by customer
Transmission Reliability - Meeting Planning Onteria	Porter - Tamina: Replace Breaker/Switches	ETI	Winter 2009	Approved	Design/Scoping	Increase thermal capacity of 138 kV II
Enhanced Transmission Reliability	Warren Substation - Add two breakers	ET	Winter 2009	Approved	Design/Scoping	
Transmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Inferim (Part 1) Relocate Sheco's Caney Creek 138 KV Substation	ET	Winter 2010	Approved	Design/Scoping	
Transmission Reliability - Meeting Planning Criteria	College Station 138W Switching Station Close N.O and upgrade protection to create 3 terminal line	En	Winter 2010	Approved	Design/Scoping	Project scope being reviewed may require a breaker station in lieu of rela modifications
Transmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Interim (Part 3) Upgrade South Beaumont to Fontenot Corner, 138 kV line	En	Winter 2010	Approved	Design/Scoping	Accelerated ISD
Transmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Interim (Part 2) Jacinto-Lewis Creek: Convert to 230 kV operation. Add 450 MVA 230-138 Auto at Lewis Creek	ETI	Summer 2011	Approved	Design/Scoping	Confirmed larget ISD

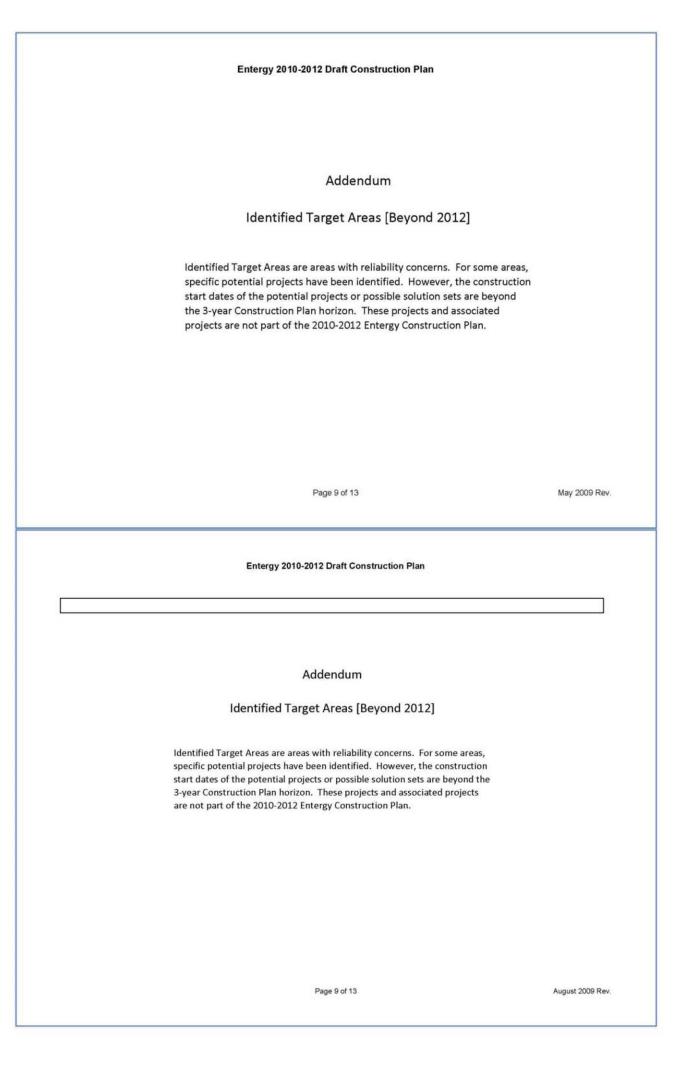
CP (Others)

Page 7 of 13

		1	Projected in Service	a					
Project Driver	Project Name AECC AVE: PDD	LE	Year	2009 Funding Comments	Project Status	Cummer Dataset	Other Comments		
ad Growth ad Growth	Abroht (H.S. Hawaton) Substation - Buy land	EAI	2012	Approved Proposed & In Target		Deferred Beyond 2011			
ck Lead Addition ad Growth	Aquille - Cross point Sup Project Bayview New Substation	EGSL	2012	Proposed & In Target Proposed & In Target		Big tent in 2018 - RO Date	ad until 2012		
ad Growth ad Growth	Beauregard to Alsen transformer taxiap	EGSL	2008	Approved Proposed & In Target					
id Grawts id Grawts	Bedga: Build new 230ev substation Rientwater-build sub using Walden T2 50MVA (already own land)	ELL .	2009	Approved	-				
id Gravits id Gravith	Btytwile POD - AECC (16-1-88150) Briarwood Substatun add 35/13KV auto - scope 2007	EA/	2008	Approved Principal & to Tarnet					
d Growth	Elyhalia porchase property - buy land:	EMI	2008	Proposed & In Target Approved		Defened lieyans 2011			
ad Growth ad Growth	Calicum New substation Carences Upgrade T2 from 9.4 to 25/33	EGSL	2012	Proposed & In Target Proposed & In Target		Site purchase in 2008			
ID CHOWED	Church Rd Substation & 11.3 miles 200kV	EMI	2012	Approved		Defered 15D to 2012			
id Growth id Growth	Cofer Road (Crawlord) Substation Coffeevate POD - AECC (10-1-09 ISD)	EAI	2012	Proposed & In Target Proposed & In Target		Onferenit by clathorer			
nd Growth	Coloret Olern: Rd - add new publikktori Dawson Creek: Add 230 -13 2kV 75 MVA Transformer	8 <u>4</u> 1	2011	Proposed & In Target Approved		Site Purchase in 2008 - Det ISD Deferred to 2009	emed (5D to 2011		
id Growth	Deicambre transformer upgrade	EGSL	THE	Charles .		Conterned Deportst 2012			
ck Load Addition	Dentury Denham Springs: Replace T2 with 50 MVA Transformer	ELL	2009	Proposed & In Target		Charged at Service Dan 31	148-2008 :		
IN DRIVEN	Farground add T2	EGSL.	2012	Proposed & In Tarpet					
id Growth at Growth	Fisher, add 20MVA transformer Geismen: Add transformer	EAt EGSL	2009	Proposed & In Target Approved					
id Growth	Hamburg: Split the high and law buss (hall to spring preject)	EAJ	2034	Ftspcard & III Target		CICLARIA MILLION			
al Growth ad Growth	Marrigton sub-build, riemove terrip sub (need fand) Jefferson - upgrade T1 iscope 2007	ED EGSL	1	Proposed & In Target		Provid deferred indefendely	·		
id Growth	LINEC Deveryular Add breakers	ETI	2009	Approved		Art she we day 2014			
d Graves d Graves	Johnsteves-Porter: New 138 W PCID Listeme Super conductor Cable	ELL.	2014	Proposed & In Target	_				
CK Load Addeson	Lake Charles - 1 mile Billix loop new casno (Revenue) Little Rock Port - Add Transformer (Meligue)	EGSL EA/	2011	Proposed & In Target Approved					
d Growth	Madicon-Ave Substation and 115kV line from Sunnytrock (Födgeland-Mac	ison EMI	2012	Proposed & in Target		Site purchase in 2008			
at Growth	Maurice: Add transformer Merin Sub-build new tubitation (aire adv own land)	EDSL	2018	Proposed & In Target		Deferred ISD to 2010		-	
ed Growth ed Growth	Metho: Upprade transformer	E11	2010	Approved					
ck Load Addition	Mickens upgrade transformer Mohican: New Substation	EGSL	2012	Approved Proposed & In Target				-	
ck Load Addban Id Grawth	Packenham - Econ Rayville Substation - (buy land only)	ELL	THE	Approved		Cancelled Catherest Discond 2012			
id Gravith	SHECO Colley Creek POD	611	2018	Propried & in Target				-	
et Grawth ck Load Attidition	SHECO Jacinte Facility Shell Caryville	ELL	2009	Approved Approved					
d Growth	Strong substation: add transformer	EAI	2017	Proposed & In Target		Owtayed to 2012			
d Droven d Oroven	Surreybrook Substation & Radial 115W (Ridgeland-Madison Reliability Im Texas Eastern Kosciuska In and out line tapped on Kosciusko. Whoma Line	EMI	2011	Proposed & In Target Approved					
ed Growth ad Growth	Thomas Sulz: Add transformer (Stupp) Total Characterial: Built New Scientifica	EGSL	2009	Approved					
d Growth	Total Chemical Build New Substation West Grange add 9.4MVA (available McHale Mme) - scope 2007	ETI	2016	Approved Physical Alin Target					
of Growth	Wints - St. Gabriel Addinew 2007W 5 kV substation Vácnia Sub - construct new sub	EGOL	2011	Proposed & In Target Proposed & In Target	_	Deterror to 2011			
at Growth	Westtale - Install Transformer	EOL	2008	Approved		Concerned.			
d Growth	Angus Olemical Construct New Sub - pabalty reimburseble Kaiser Francis new sub	EGL.			-	Carcellet			
ad Growth ad Growth	Marathon Oil Espansion Tetra - Calcium Brive Plant	ELL,	2008	Approved Approved					
⁹ (Load Related)				Page 6 of 13					May 2009 I
usting in 2009-2	211		Entergy 2	Page 8 of 13	uction Plan			1	May 2006 5
isting in 2009-2 natruction Plan W Addition gust 2009 Addi			Entergy 2						. May 2009 B
isting in 2005-2 nstruction Plan w Addition gust 2009 Addi diffication Project Driv project Driv	ver Project Na Vice Grand Gulf Upzale Project Ubcande Hathura to Inland Oranoe to McLevit 203	ne	Entergy 24	D10-2012 Draft Constru-	Curren Projectec Servic 2011	I In- 2009 Funding Comments Approved	Project Status Design/Scoping	Project to incre of the 230 kV is	er Comments ans the Themai capacity
Isling In 2009-2 natuction Plan w Addition Project Driv Project Driv mamission Sea	ver Project Na Vice Grand Gulf Uprate Project Ma Upgrade Hathburg to Intered Orange to McLewis 230 Alti/y - Tamina to Coder Hill Sky Unec. Upgrade	ne	Entergy 2	010-2012 Draft Constr	Curren Projectes Servic	t In- 2009 Funding Comments Approved 011 Proposed & In	Project Status Design/Scoping Design/Scoping	Project to incre of the 230 kV is	er Comments ate file Themma (capecity
listing in 2009-2 prostruction Plan wr Addition Project Driv annanistain San annaistain San annaistain San Berling Planning annanistain San	Ver Project Na Uggede Herburg to Inlend Orange to McLewis 200 Ude Grand Guilf Uprate Project Upgede Herburg to Inlend Orange to McLewis 200 Criteria Ability - Cadar Hill - Randation 130 KV line: Upgrade	ne	Entergy 2	D10-2012 Draft Constru-	Curren Projectec Servic 2011	e 2009 Funding Comments Approved 011 Proposed & Im Target Proposed & In	Design/Scoping	Project to incre of the 230 kV is increase them	er Comments ans the Themai capacity
listing in 2009-2 notkutchion Plan re Addition Regust 2009 Addit attorn Project Driv antemission Sector antemission Sector antemission Sector antemission Sector antemission Sector Planning, antamission References antemission Sector Planning, antamission References antemission Sector Planning, antamission References antemission Sector Planning, antamission References antamission Reference	Ver Grand Gulf Uprate Project Upgrade Harburg to Intered Orange to McLewis 233 Upgrade Harburg to Intered Orange to McLewis 233 Upgrade Harburg to Intered Orange to McLewis 233 Upgrade Orteral Upgrade Orteral Upgrade Orteral Upgrade Orteral Upgrade Orteral Upgrade Upgr	ne	Entergy 2	D10-2012 Draft Constru- LE ETT ETT	Curren Projected Servic 2011 Winter 20	t In- e Correnents Approved 2011 Proposed & Im Target Proposed & In Target Proposed & In	Design/Scoping Design/Scoping	Project to incre of the 230 kV li Increase them Increase them	er Commerts and the thermal capacity al capacity of 138 kV line al capacity of 138 kV line
disting in 2009-2 onstruction Plan we Addition Jugust 2009 Addit additication	teer dramid Guill Uppate Project Uppate Project Na Uppate Herburg to Interd Orange to McL wite 230 Uppate Herburg to Interd Orange to McL wite 230 Criteria ability - Ceder Hil - Plantation 138 KV line: Upgrade Criteria ability - Ceder Hil - Plantation 138 KV line: Upgrade Criteria	ne	Entergy 24	010-2012 Draft Constr LE En En En En	Curren Projected Servic 2011 Winter 20 2012	t In- e Corrments Approved D11 Proposed & In Target Proposed & In Target Proposed & In Target	Design/Scoping Design/Scoping Design/Scoping	Project to incre of the 230 kV is Increase them Increase them Increase them	er Comments aras the Hermal capacity ne

CP (Others)

Page 8 of 13



Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Name	LE	Comments
Transmission Reliability - Meeting Planning Criteria	Reconductor LR 115 KV system (Detailed Scope TBD)	EAI	Long Range plan to increase LR load serving capability - Potential Target Year 2018
Transmission Reliability - Meeting Planning Criteria	115KV Line from Benton North to Benton South	EAI	Long Range plan to increase LR load serving capability - Potential Target Year 2018
Transmission Reliability - Meeting Planning Criteria	Reconductor 161kV line from Bull Shoals to Midway, Southland to Norfork	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Transform Ebony SS into a breaker station to tie Ebony North to Ebony South	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	115kV line from Gumsprings to Amity	EAI	Long range project targeted to alleviate overloads and undervoltages around Mt. Ida - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	115kV line from Holland Bottoms to Ward (make AECC Ward breaker station or have line NO and close for contingency)	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	161kV line from Jim Hill to Datto or convert 115kV line to 161kV line and upgrade stations	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	500/161 KV station at Jonesboro	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2015
Transmission Reliability - Meeting Planning Criteria	Upgrade LV Bagby to Macon to at least 115MVA, line rated at 109 MVA	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2013
Transmission Reliability - Meeting Planning Criteria	115KV reconductor Mayflower to Morgan base case in 2018	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2014
Transmission Reliability - Meeting Planning Criteria	161kV reconductor Norfork to Sage	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2015
Transmission Reliability - Meeting Planning Criteria	161kV reconductor Russellville East to Russellville North	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2017
Transmission Reliability - Meeting Planning Criteria	115kV line from Camden McGuire to Camden North (this project solve very minimal load at risk unless Couch and McClellan is off) (If Couch and McClellan is off Sarepta and Camden line will not solve the issues – will need a 2nd auto at El Dorado)	EAI	Long range project targeted to alleviate overloads and undervoltages in SW Arkansas - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Poyen - Add Capacitor Bank (10.8 MVAR, 115 KV)	EAI	Long range project targeted to alleviate contingency undervoltage - Potential Target Year, 2014
Transmission Reliability - Meeting Planning Criteria	El Dorado Upland - Texas Eastern F: New Line/ Texas Eastern F - TEF SS: Reconductor Line	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Holiand Bottoms - Hamlet 161 kV	EAI	Long range project targeted to improve reliability in the Conway area and surrounding 161 kV system - includes a 161 kV buildout at Cabot EHV - Potential Target Year. 2016
Transmission Reliability - Meeting Planning Criteria	Gum Springs SS: Build SS:	EAI	Long range project targeted to increase reliability between Hot Springs and McNeil area and to reduce relibility dependence on units in southern Arkansas - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Gobel Substation build at crossing point, Dewitt Cap Bank, Wabbaskeka Cap Bank, ULM Cap Bank - scope 2008 (Marvel South)	EAI	Long range project targeted to immprove reliability between Stuttgart and Helena - Potential Target Year: 2018

Identified Target Areas

Page 10 of 13

May 2009 Rev.

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Name	LE	Comments
Transmission Reliability - Meeting Planning Criteria	LR 115 kV System: Upgrade various lines or introduce 161 kV	EAI	Long Range plan to increase LR load serving capability - Potential Target Year 2018
Transmission Reliability - Meeting Planning Criteria	Bull Shoals - Midway 161 kV Line: Upgrade	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Gum Springs - Amily 115 KV Line: Construct New Line	EAJ	Long range project targeted to alleviate overloads and undervoltages around Mt. Ida - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Holland Bottoms - Ward 115kV Line Install Breakers at AECC Ward or Construct New N.O. Line	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Jim Hill Area Upgnades Option 1: Jim Hill - Datto: Construct New 161 kV Line Option 2: Jim Hill - Datto: Convert to 161 kV Operation	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Jonesboro Area: Construct New 500/161 KV Substation	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2015
Transmission Reliability - Meeting Planning Criteria	Lake Village Bagby - Macon 115 KV Line: Upgrade	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2013
Transmission Reliability - Meeting Planning Criteria	Mayflower - Morgan 115 kV Line: Upgrade	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2014
Transmission Reliability - Meeting Planning Criteria	Norfork to Sage 161 kV Line: Upgrade	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2015
Transmission Reliability - Meeting Planning Criteria	Russellville East - Russellville North 161kV Line: Upgrade	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2017
Transmission Reliability - Meeting Planning Criteria	Camden McGuire - Camden North 115kV Line: Construct New Line	EAI	Long range project targeted to alleviate overloads and undervoltages in SW Arkansas - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Poyen 115 KV Substation: Add 10.8 MVAR Capacitor Bank	EAI	Long range project targeted to alleviate contingency undervoltage - Potential Target Year: 2014
Transmission Reliability - Meeting Planning Criteria	El Dorado Upland - Texas Eastern F: New Line/ Texas Eastern F - TEF SS: Reconductor Line	EAI	Long range project targeted to alleviate overloads - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Gum Springs Area: Construct Switching Station	EAI	Long range project targeted to increase reliability between Hot Springs and McNeil area and to reduce relibility dependence on units in southern Arkansas - Potential Target Year: 2018
Transmission Reliability - Meeting Planning Criteria	Gobel Substation build at crossing point, Wabbaskeka Cap Bank, ULM Cap Bank - scope 2008 (Marvel South)	EAI	Long range project targeted to inmprove reliability between Stuttgart and Helena - Potential Target Year: 2018
Enhanced Transmission Reliability	Port Hudson - 69 KV area improvement	EGSL	Long range project targeted to increase reliability of 69kV system reconfiguring 69kV station and/or bringing in new 138kV source.
Transmission Reliability - Meeting Planning Criteria	Solac - Upgrade 230-69 kV Autos or add 3rd	EGSL	Long range project targeted to increase reliability of 69kV system.

Identified Target Areas

Page 10 of 13

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Name	LE	Comments
Transmission Reliability - Maintaining Infrastructure	Harrison East 161 KV upgrade switches and line trap	EAI	Long Range project to increase reliability in the Hilltop, Everton, and St. Joe areas Potential Target Year: 2010
Enhanced Transmission Reliability	Port Hudson - 69 kV area improvement	EGSL	Long range project targeted to increase reliability of 69kV system reconfiguring 69kV station and/or bringing in new 138kV source.
Transmission Reliability - Meeting Planning Criteria	Solac - Upgrade 230-69 KV Autos or add 3rd	EGSL	Long range project targeted to increase reliability of 69kV system.
Transmission Reliability - Meeting Planning Criteria	Harrelson to Gloria - upgrade 69 KV line	EGSL	Long range project targeted to increase reliability of 69kV system.
Transmission Reliability - Meeting Planning Criteria	McManus to Brady Heights - Upgrade 69 kV Line	EGSL	Long range project targeted to increase reliability of 69kV system.(Potential Target Year 2014)
Enhanced Reliability	Fancy Point 500 kV Switchyard Upgrades	EGSL	
Transmission Reliability - Meeting Planning Criteria	Lake Charles Improvement - 230 kV Loop	EGSL	Long range project targeted to increase reliability of 230 and 138kV system by building a new 230kV line from Nelson towards LC Bulk and 230-138kV station. (Potential Target Year 2016)
Transmission Reliability - Meeting Planning Criteria	LC Bulk: Add 3rd 138-69 KV Autotransformer	EGSL	Long range project targeted to increase reliability of 69 KV system. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	LC Bulk - Chlomal: Reconductor approximately 3 miles	EGSL	Long range project targeted to increase reliability of 69kV system (Potential Target Year 2016).
Transmission Reliability - Meeting Planning Criteria	Chlomal-Lacassine: Upgrade 69kV line and install breaker	EGSL	Long range project targeted to increase reliability of 69kV system. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Lawtag-Jennings: Upgrade 69kV line	EGSL	Long range project targeted to increase reliability of 69kV system. (Potential Target Year 2013)
Transmission Reliability - Meeting Planning Criteria	2005 Jackson-Marydale 69kV Line	EGSL	Long range project targeted to increase reliability of 69kV system. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	Greenwell Springs area reconfiguration (Coly-Polyform-Denham Springs)	EGSL	Long range project targeted to increase reliability of 69kV system by upgrading overloaded 69kV lines or relay upgrade to allow creation of three terminal lines. (Potential Target Year 2015)
	Champagne - Add 115 KV Capacitor Bank	EGSL	Long range project to provide voltage support during contingency outages (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Gypsy to Bellpoint Reconductor	ELL	Long Range project to increase increase reliability on the 230kV system between Gypsy and Belle Point. (Potential Target Year 2013)

Identified Target Areas

Page 11 of 13

May 2009 Rev.

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Name	LE	Comments
Transmission Reliability - Meeting Planning Criteria	Harrelson to Gloria - upgrade 69 KV line	EGSL	Long range project targeted to increase reliability of 69kV system.
Transmission Reliability - Meeting Planning Criteria	McManus to Brady Heights - Upgrade 69 KV Line	EGSL	Long range project targeted to increase reliability of 69kV system.(Potential Target Year 2014)
Enhanced Reliability	Fancy Point 500 kV Switchyard Upgrades	EGSL	
Transmission Reliability - Meeting Planning Criteria	Moni - Add 2nd 138 - 69 Auto	EGSL	Eliminates contingency loss of existing auto. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	Lake Charles Improvement - 230 KV Loop	EGSL	Long range project targeted to increase reliability of 230 and 138kV system by building a new 230kV line from Neison towards LC Bulk and 230-138kV station. (Potential Target Year 2016)
Transmission Reliability - Meeting Planning Criteria	LC Bulk: Add 3rd 138-69 kV Autotransformer	EGSL	Long range project targeted to increase reliability of 69 kV system. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	LC Bulk - Chlomal: Reconductor approximately 3 miles	EGSL	Long range project targeted to increase reliability of 69kV system (Potential Target Year 2016).
Transmission Reliability - Meeting Planning Criteria	Upgrade Scott to Garencro 69 KV Line	EGSL	Long range project targeted to increase reliability of 69kV system (Potential Target Year 2015).
Transmission Reliability - Meeting Planning Criteria	Chlomal-Lacassine: Upgrade 69KV line and install breaker	EGSL	Long range project targeted to increase reliability of 69kV system. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Lawtag-Jennings: Upgrade 69KV line -	EGSL	Long range project targeted to increase reliability of 69kV system. (Potential Target Year 2013)
Transmission Reliability - Meeting Planning Criteria	2005 Jackson-Tejac 69kV Line	EGSL	Long range project targeted to increase reliability of 69kV system. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	(Greenwell Springs area reconfiguration (Coly-Polyform-Denham Springs)	EGSL	Long range project targeted to increase reliability of 69kV system by upgrading overloaded 69kV lines or relay upgrade to allow creation of three terminal lines. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Champagne - Add 115 KV Capacitor Bank	EGSL	Long range project to provide voltage support during contingency outages (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Mossville to Alfol Construct new 69 kV Line	EGSL	Long range project targeted to increase reliability of 69kV system. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	Minden Area Improvement: Reconductor Minden to Minden LaGen and Add 32.4 MVAR capacitor bank at Minden.	ELL	Long Range project to increase reliability in the Minden area. (Potential Target Year 2014)

Identified Target Areas

Page 11 of 13

Project Driver	Project Name	LE	Comments
Transmission Reliability - Meeting Planning Criteria	Minden Area Improvement: Reconductor Minden to Minden LaGen and Add 32.4 MVAR capacitor bank at Minden.	ELL	Long Range project to increase reliability in the Minden area. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	West Monroe/Monroe Reliability Improvements	ELL	Long range project targeted to increase reliability by energizing 115kV lines built according to 230kV standard to 230kV level and completing 230kV loop around Monroe. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Southeast LA Coastal Improvement Plan: Phase 3 Build Oakville - Alliance 230kV line and Alliance 230kV Sub	ELL	Long range project targeted to increase reliability in the SE Louisiana coastal area. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Red Gum Voltage Improvement	ELL	Long range project targeted to increase reliability by energizing 34kV line built according to 115kV standards to 115kV level and adding a cap bank for voltage support at Winnsboro.
Transmission Reliability - Meeting Planning Criteria	Napoleonville Cap Bank 21MVAR	ELL	Long range project to increase voltage reliability on the 115kV system from Plaguemine to Paincourtville
	Adams Creek to Bogalusa No. 2 - Replace Breaker	ELL	Potential Target year: 2013
Transmission Reliability - Meeting Planning Criteria	DSG Reliability Improvements: Phase 3	ELL/ENO	Long range project targeted to improve the voltage support and thermal overloads observed in the DSG area during high load conditions. Timing dependent on load growth in N.O.
Transmission Reliability - Meeting Planning Criteria	North Mississippi Improvement (230 kV)	EMI	Long rang project targeted to improve reliability between Batesville and Southaven (230 between Batesville and Getwell) 2018
Transmission Reliability - Meeting Planning Criteria	Paterson: Install 230/115 kV Auto	ENO	This long range project is a continuation of a breaker project to improve voltage reliability in the New Orleans area where Paterson substation is located. Timing dependent on load growth in N.O.
Transmission Reliability - Meeting Planning Criteria	Breakers at Hollandale and Beizoni (close normally-open point) / Rolling Fork Cap Bank	EMI	Project to increase relibility in central Mississippi on the 115 kV system between Greenville and Vicksburg 2014
Transmission Reliability - Meeting Planning Criteria	Rankin Industrial - Airport: Reconductor	EMI	2014
Transmission Reliability - Meeting Planning Criteria	Church Rd - Getwell: Build new line	EMI	2014
Transmission Reliability - Meeting Planning Criteria	Central MS Improvement (Lakeover-Canton 230kV : Voltage)	EMI	2016
Transmission Reliability - Meeting Planning Criteria	Upgrade Cleveland-Dayton Buik 138KV	ETI	Long range project to increase reliability in the Dayton area. (Potential Target Year 2013)
Transmission Reliability - Meeting Planning Criteria	Conroe area switching station - tie lines Longmire to Fish Creek and Conroe to Woodhaven 138 lines together.	ETI	Long range project to increase reliability in the Egypt / Fish Creek area. (Potential Target Year 2013)

Identified Target Areas

Page 12 of 13

May 2009 Rev.

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Name	LE	Comments
Fransmission Reliability - Meeting Planning Criteria	West Monroe/Monroe Reliability Improvements	ELL	Long range project targeted to increase reliability by energizing 115kV lines built according to 230kV standard to 230kV level and completing 230kV loop around Monroe. (Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Red Gum Voltage Improvement	ELL	Long range project targeted to increase reliability by energizing 34kV line built according to 115kV standards to 115kV level and adding a cap bank for voltage support at Winnsboro.
Fransmission Reliability - Meeting Planning Criteria	Napoleonville Cap Bank 21MVAR	ELL	Long range project to increase voltage reliability on the 115kV system from Plaquemine to Paincourtville
Fransmission Reliability - Meeting Planning Criteria	Clovelly to Golden Meadow 115 kV upgrade	ELL	Provide thermal capacity to Golden Meadow area
Transmission Reliability - Meeting Planning Criteria	DSG Reliability Improvements: Phase 3		Long range project targeted to improve the voltage support and thermal overloads observed in the DSG area during high load conditions. Timing dependent on load growth in N.O.
Fransmission Reliability - Meeting Planning Criteria	North Mississippi improvement (230 KV)	EMI	Long rang project targeted to improve reliability between Batesville and Southaven (230 between Batesville and Getwell) 2018
Transmission Reliability - Meeting Planning Criteria	Paterson: Install 230/115 kV Auto	ENOI	This long range project is a continuation of a breaker project to improve voltage reliability in the New Orleans area where Paterson substation is located. Timing dependent on load growth in N.O.
Transmission Reliability - Meeting Planning Criteria	Breakers at Hollandale and Belzoni (close normally-open point) / Rolling Fork Cap Bank	EMI	Project to increase relibility in central Mississippi on the 115 kV system between Greenville and Vicksburg 2014
Transmission Reliability - Meeting Planning Criteria	Rankin Industrial - Airport: Reconductor	EMI	2014
Transmission Reliability - Meeting Planning Criteria	Church Rd - Getwell: Build new line	EMI	2014
Transmission Reliability - Meeting Planning Criteria	Central MS Improvement (Lakeover-Canton 230kV : Voltage)	EMI	2016
Transmission Reliability - Meeting Planning Criteria	Upgrade Cleveland-Dayton Bulk 138KV	ETI	Long range project to increase reliability in the Dayton area. (Potential Target Year 2013)
Transmission Reliability - Meeting Planning Criteria	Conroe area switching station - tie lines Longmire to Fish Creek and Conroe to Woodhaven 138 lines together.	ETI	Long range project to increase reliability in the Egypt / Fish Creek area. (Potential Target Year 2013)
Transmission Reliability - Meeting Planning Criteria	Reconductor Sabine to Port Neches Bulk (Line 515) and Sabine to Port Neches Bulk (via Linde Line 516)	ETI	Long range project to increase reliability in the Sabine area. (Potential Target Year 2013)

Identified Target Areas

Page 12 of 13

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Name	LE	Comments
Transmission Reliability - Meeting Planning Criteria	Reconductor Sabine to Port Neches Bulk (Line 515) and Sabine to Port Neches Bulk (via Linde Line 516)	ETI	Long range project to increase reliability in the Sabine area. (Potential Target Year 2013)
Transmission Reliability - Meeting Planning Criteria	Upgrade Doucette-Rayburn 138KV	ETI	Long range project to increase reliability in the Sabine area. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	Jasper - Rayburn: Reconductor	ETI	Long range project to increase reliability in the Rayburn area. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	Cedar Hill to Conroe reconductor	ETI	Long range project to increase reliability in the Conroe area. (Potential Target Year 2013)
Transmission Reliability - Meeting Planning Criteria	Expand Cap Bank at New Caney 138kV	ETI	Potential Target Year of 2014
Transmission Reliability - Meeting Planning Criteria	New Sabine-Gulfway 230kV Line	ETI	Potential Target Year of 2014
Transmission Reliability - Meeting Planning Criteria	Upgrade Jacinto to Porter 138kV	ETI	Potential Target Year of 2014
Transmission Reliability - Meeting Planning Criteria	Orange County 230kV Project	ETI	Potential Target Year of 2014
Transmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Final	ETI	Long range Western Region Project.
	Construct new Cypress to Jacinto 230 kV Line	in the second	(Potential Target Year 2015)
Transmission Reliability - Meeting Planning Criteria	Expand Cap Bank at Cleveland 138kV	ETI	Potential Target Year of 2015
Transmission Reliability - Meeting Planning Criteria	New China-Amelia 230kV line	ETI	Potential Target Year of 2015
Transmission Reliability - Meeting Planning Criteria	Add Cap Bank at Mill Creek (JNEC) 138kV	ETI	Potential Target Year of 2016
Transmission Reliability - Meeting Planning Criteria	Add Cap Bank at Call (JNEC) 138kV	ETI	Potential Target Year of 2016
Transmission Reliability - Meeting Planning Criteria	Upgrade Pelican Road-Shepherd 138kV	ETI	Potential Target Year of 2016
Transmission Reliability - Meeting Planning Criteria	Upgrade South Beaumont-Pansy 69kV	ETI	Potential Target Year of 2016
Transmission Reliability - Meeting Planning Criteria	Upgrade Kountze Bulk-Warren 138kV	ETI	Potential Target Year of 2016
Transmission Reliability - Meeting Planning Criteria	Expand Cap Bank at Rivtrin 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Add Cap Bank at Huntsville 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Expand Cap Bank at Corrigan Bulk 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Add Cap Bank at Shepherd (SHECO) 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Expand Cap Banks at Dayton Bulk 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Expand Cap Banks at Doucette Bulk 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Upgrade Eastgate-Dayton Bulk 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Upgrade Cypress-Lumberton	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Add 2nd Cypress Auto (500/230kV or 500/138kV)	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Upgrade Amelia-Helbig 230KV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Upgrade Jacinto-Cleveland 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Upgrade Toledo Bend-Newton Bulk 138kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Upgrade Cypress-Amelia 230kV	ETI	Potential Target Year of 2017
Transmission Reliability - Meeting Planning Criteria	Add Cap Bank at Honey (SHECO) 138kV	ETI	Potential Target Year of 2018
Transmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Interim Add Alden SVC	ETI	Potential Target Year of 2014

Identified Target Areas

Page 13 of 13

May 2009 Rev.

Entergy 2010-2012 Draft Construction Plan

Project Driver	Project Name	LE	Comments
Transmission Reliability - Meeting Planning Criteria	Upgrade Doucette-Rayburn 138kV	ETI	Long range project to increase reliabilit in the Sabine area. (Potential Target Year 2014)
Transmission Reliability - Meeting Planning Criteria	Expand Cap Bank at New Caney 138kV	ETI	Potential Target Year of 2014
ransmission Reliability - Meeting Planning Criteria	New Sabine-Gulfway 230kV Line	ETI	Potential Target Year of 2014
ransmission Reliability - Meeting Planning Criteria	Upgrade Jacinto to Porter 138kV	ETI	Potential Target Year of 2014
ransmission Reliability - Meeting Planning Criteria	Orange County 230kV Project	ETI	Potential Target Year of 2014
Fransmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Final Construct new Cypress to Jacinto 230 kV Line	ETI	Long range Western Region Project. (Potential Target Year 2015)
ransmission Reliability - Meeting Planning Criteria	Expand Cap Bank at Cleveland 138kV	ETI	Potential Target Year of 2015
ransmission Reliability - Meeting Planning Criteria	New China-Amelia 230kV line	ETI	Potential Target Year of 2015
ransmission Reliability - Meeting Planning Criteria	Add Cap Bank at Mill Creek (JNEC) 138kV	ETI	Potential Target Year of 2016
ransmission Reliability - Meeting Planning Criteria	Add Cap Bank at Call (JNEC) 138kV	ETI	Potential Target Year of 2016
ransmission Reliability - Meeting Planning Criteria	Upgrade Pelican Road-Shepherd 138kV	ETI	Potential Target Year of 2016
ransmission Reliability - Meeting Planning Criteria	Upgrade South Beaumont-Pansy 69kV	ETI	Potential Target Year of 2016
ransmission Reliability - Meeting Planning Criteria	Upgrade Kountze Bulk-Warren 138kV	ETI	Potential Target Year of 2016
ransmission Reliability - Meeting Planning Criteria	Expand Cap Bank at Rivtrin 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Add Cap Bank at Huntsville 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Expand Cap Bank at Corrigan Bulk 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Add Cap Bank at Shepherd (SHECO) 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Expand Cap Banks at Dayton Bulk 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Expand Cap Banks at Doucette Bulk 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Upgrade Eastgate-Dayton Bulk 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Upgrade Cypress-Lumberton	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Add 2nd Cypress Auto (500/230kV or 500/138kV)	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Upgrade Amelia-Helbig 230kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Upgrade Jacinto-Cleveland 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Upgrade Toledo Bend-Newton Bulk 138kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Upgrade Cypress-Amelia 230kV	ETI	Potential Target Year of 2017
ransmission Reliability - Meeting Planning Criteria	Add Cap Bank at Honey (SHECO) 138kV	ETI	Potential Target Year of 2018
ransmission Reliability - Meeting Planning Criteria	Western Region Reliability Improvement Plan Phase 3 Interim Add Alden SVC	ETI	Potential Target Year of 2014

Identified Target Areas

Page 13 of 13

ICT Responses to ETEC's Comments:

Page 2

Number 1: Comment noted.

Page 3

Number 1: Emerson cap bank will be 10.2 MVar and the description of the idev will be revised.

Number 2: As mentioned, this is resolved.

Number 3: An idev exist and it will be added to the list. This was included in updated 2, but the line is limited by the CT ratio.

Number 4: Comment noted. It has been reviewed and the cap bank will be moved from Ward to Beebe.

Page 4

Number 1: Acadia cap bank will be 37.7 MVar and the description of idev will be revised.

Number 2: The Waterford4 Generator was already modeled. No topology change. No idev is needed.

Number 3: As mentioned, this is resolved.

Number 4: This was a redundant item and there are no errors associated with this issue.

Number 5: Comment noted.

Number 6: Corresponding idev exist under 10CP EMI Grand Gulf Uprated Project.

Number 7: The Russellville South to Dardanelle upgrade was incorporated into the EAI 2012S Westar TSR Upgrades idev.

Number 8: Comment noted.

Number 9: Comment noted.

<u>Page 5</u>

Number 1: Comment noted

Number 2: As mentioned, this is resolved.

Number 3: This does not affect topology.

Number 4: This does not affect topology.

Number 5: Corresponding idev exist under 10CP 2011S ETI Grand Gulf Project idev.

Number 6: Comment noted.

- Number 7: Comment noted
- Number 8: Comment noted.

Number 9: Comment noted.

Page 6

Number 1: Comment noted.

ETEC's comments received 09/03/09

ETEC'S QUESTONS FOR ICT ON THE 2010 RELIABILITY ASSESSMENT

ETEC-1.

334238 2BLUWATR 69.000 – This bus had low voltage violations in the 2012 Summer Peak model under n-0 conditions but was not identified in the Reliability Assessment. Please verify if this facility should have been identified.

The cap at Himex 334236 was locked because it would switch on and off when trying to solve the model. It was locked in the off position. Change the Binit value to 12.6 then solve and the voltage at Blue Water increases to just over 1 per unit.

ETEC-2.

Please explain why the following facilities were not identified as having thermal overloads under n-1 conditions in the 2012 Summer and 2012 Winter Peak models.

303302 3MNDENLG 115 337361 3MINDEN
115
334000 2CALVERT 69.0 334001 2SINHERN
69.0
334001 2SINHERN 69.0 334002 2HEARNE
69.0
336800 3B.WLSN 115 336960 3SE-VKS 115
336804 3VKSBRG 115 336962 3VKSB-W
115
336925 3JX-HIC 115 336926 3JAX-N 115
336925 3JX-HIC 115 336940 3RX BRN 115
336967 3ONWARD 115 336968 3R.FORK
115
338228 3CORNIN 115 338229 3T.E.#8 115
338228 3CORNIN 115 338691 3CORN N#
115

The Trus – Vienna 115kV contingency and Minden overload are part of the same breaker to breaker section "Minden – Vienna". The consequential load is 88.5MW, so the 100MW rule doesn't apply.

The overload from Calvert to Hearne isn't showing up in the U2 12S-W models. To solve the models for the loss of either transformer at Bryan, ICT had to lock the caps at Calvert, Hearn, and Bryan A and B.

BW – SE Vicksburg overload FTLO of Vicksbrg – Wvicksbrg. Opening the breaker – breaker section "Vicksbrg – Nvicksbrg" relieves the overload while dropping 42.9MW of consequential load. The 100MW rule doesn't apply. Vicksbrg – Wvicksbrg overloads FTLO BW – SE Vicksburg. Opening the breaker – breaker section "BW to Yazoo Municipal" relieves the overload while dropping 28.5 MW of consequential load. The 100MW rule doesn't apply.

RB – Hic – Jax N overloads FTLO Lakeover – Livingston. Opening the breaker – breaker section from "Lakeover – Jax NE" relieves the overload while dropping 88.5 MW of consequential load. The 100MW rule doesn't apply.

Onward – Rolling Fork overloads FTLO Greenvle – SE Greenvle. Opening the breaker – breaker section "Greenvle – Rolling Fork" relieves the overload while dropping 63.5 MW of consequential load. The 100MW rule doesn't apply.

Corn N - TE overloads FTLO Watervalley - Poca. Opening the breaker – breaker section "Watervalley – Jim Hill" relieves the overload while dropping 68.9 MW of consequential load. The 100MW rule doesn't apply.

ETEC-3.

Please explain why the following facilities were not identified as having thermal overloads under n-1 conditions in the 2012 Summer and 2012 Winter Peak models.

335438	20PEL 6	69.0
335439	2L658TP	69.0
335440	2BOMILL	69.0
335441	2L637TP	69.0
335671	TP.NESSR	69.0
335672	2NESSER	69.0
335710	2T340/37	69.0
335711	2JONESCR	69.0
336967	30NWARD	115.0
336968	3R.FORK	115.0
336969	3MAYRSV	115.0
336970	3N.YUM*	115.0
336992	3EPA-MUR	115.0
337045	3SE-GRN	115.0
337046	3GR-TC*	115.0
337048	3HOLNDL	115.0
337049	3ARCOLA*	115.0
337071	3EPA-SGV	115.0
337328	3METRPLS	115.0
337329	3WISNER	115.0
337330	3WNSBRO	115.0

337742	3MALV-N*	115.0
337743	3MALV-N	115.0
337744	3GIFORD	115.0
337745	3POYEN	115.0

The voltage on busses 335438-39-40-41 drops below .92 FTLO various segments of the Sunset – Champagne breaker to breaker section. 335438-39-40-41 are part of the Sunset – Champagne breaker to breaker section and there is 9.8MW of consequential load. So the 100MW rule doesn't apply.

The voltage on busses 335671-72-710-711 drops below .92 FTLO Harelson – Tap 340/37. 335671-72-710-711 and Harelson – Tap 340/37 are part of the Harelson – Jones Creek breaker to breaker that has 28.4MW of consequential load. So the 100MW rule doesn't apply.

The low voltage from Onward to SE Greenvle occurs FTLO various sections of the Greenvle – Rolling Fork breaker – breaker section. Opening the breaker – breaker section "Greenvle – Rolling Fork" relieves the voltage problems while dropping 63.5 MW of consequential load. The 100MW rule doesn't apply.

In 12S the voltage drops below .92 at busses 337328-29-30 FTLO various sections of the Redgum – Winnsboro breaker – breaker section. Opening Redgum – Winnsboro relieves the low voltage while dropping 19MW of load. So the 100MW rule doesn't apply.

In 12W the voltage drops below .92 at busses 337328-29-30 FTLO Alto - Swartz. The caps at Redgum, Wisner, and Winnsboro had to be locked in the "on" position to solve the model. The voltage was within limits after locking the caps.

The voltage at Malvern North, Giford, and Poyen drop below .92 FTLO Malvern North – Hot Springs EHV. Opening the Hot Springs – Woodward breaker – breaker section relieves the low voltage while dropping 73.9MW of consequential load. So the 100MW rule doesn't apply.

ICT Reliability Assessment

August 2009





Table of Contents

1.	Introduction	2
2.	ICT Reliability Assessment Scope	2
3.		
	 3.1. New Projects in the Draft 2010-2012 Construction Plan Revision 1	4 5 6 6 7
4.	Reliability Assessment and Construction Plan Evaluation Results	8
	 4.1. Near-Term Period – 2010 and 2014	8 10 10 11 11 11 11
5.	Stakeholder Participation	13



ICT Reliability Assessment

1. Introduction

Southwest Power Pool (SPP) acts as the Independent Coordinator of Transmission (ICT) for Entergy. The ICT performs a number of functions under the provisions of Entergy's Open Access Transmission Tariff (OATT). Among these functions is an annual reliability assessment of Entergy's transmission system, which includes an evaluation of Entergy's draft construction plan for the next three years. The ICT's reliability assessment and construction plan evaluation are the first part of an overall planning process which culminates in the development of Entergy's Construction Plan and the ICT's Base Plan. The ICT's Base Plan includes all projects that the ICT believes are necessary to comply with Entergy's Planning Criteria and thus is focused on reliability needs. The Base Plan forms the basis for cost allocation under Attachment T of Entergy's OATT. The results of this reliability assessment will be a significant factor in determining what is ultimately included in the ICT's 2010 Base Plan.

2. ICT Reliability Assessment Scope

The objective of the Reliability Assessment is to assess the ability of the Entergy transmission system to perform according to Entergy's Planning Criteria in both near-term and long-term horizons. Entergy's Planning Criteria are set out in the OATT and are posted on Entergy's OASIS.

Entergy's Planning Criteria

- NERC TPL Standards
- SERC Supplements to NERC Standards
- Entergy Transmission Local Criteria
- Entergy Transmission Planning Guidelines (Business Practices)

Entergy's compliance with NERC Reliability Standards is facilitated through the SERC Reliability Corporation (SERC) which is not affiliated with SPP. The ICT's reliability assessment is not a substitute for the compliance processes required by NERC and SERC. Where the ICT reliability assessment shows possible overloads or voltage problems, this does not indicate non-compliance with NERC or SERC standards, but rather provides the ICT's view of overall reliability with respect to Entergy's Planning Criteria.

The ICT has certain discretion under Entergy's OATT regarding the application of Entergy's Planning Criteria. Using this discretion, the ICT has applied interpretations or enhancements with respect to the Planning Criteria. These enhancements provide that (1) "non-consequential load" shed will not be used as a mitigation plan, and (2) the amount of "consequential load" exposed to possible load shedding for contingency situations is limited to 100 MW. Consequential load is the load removed from service as a direct result of the automatic operation of protective devices responding to a fault condition. Consequential load includes load served "radially" from a single transmission feed. The shedding of non-consequential load generally requires operator intervention.



The reliability assessment included an evaluation of the transmission system under multiple scenarios:

- System Intact with all elements in their normal configuration
- N-1 Contingency outage of every single transmission segment individually
- Transmission Circuit Contingency outage of a single transmission circuit by operation of protective devices (breaker-to-breaker contingency)

These scenarios were evaluated (1) with the "Approved" projects in the current 2009-2011 Construction Plan and (2) with both "Approved" and "Proposed and In-Target" projects in the draft 2010-2012 Construction Plan. The amount of consequential load associated with a particular transmission circuit contingency was determined for that scenario.

Two additional analyses were performed:

- A Low Hydro scenario evaluating the effect of the reduced availability of hydro generation in north Arkansas during dry summer months.
- Specific contingencies defined in the Planning Criteria for Load Pockets.

The full reliability assessment scope was discussed with and commented on by stakeholders at the March 17, 2009 LTTIWG meeting and can be found in Attachment A to this report.

3. Entergy's Draft Construction Plan

The draft Construction Plan developed by Entergy includes all transmission projects that Entergy expects to construct or initiate construction of during the 2010-2012 time period. The Construction Plan includes projects that Entergy believes are necessary to satisfy Entergy's Planning Criteria as well as other economic upgrade projects.

Projects shown in Entergy's draft Construction Plan with funding comment "Approved" are those expected to have funds budgeted in 2010 towards their construction. "Proposed and In Target" projects are expected to be budgeted for construction in 2011 and/or 2012 based on current projections. Some projects may have inservice dates beyond the 2010-2012 period, depending on development lead times.

The ICT posted Entergy's draft Construction Plan on Entergy's OASIS on May 13, 2009. Entergy reviewed the draft Construction Plan with stakeholders at the June 9, 2009 LTTIWG meeting. The presentation can be found in the meeting background materials. Stakeholders were invited to comment on the plan. Entergy subsequently provided a modified draft Construction Plan to the ICT—Revision 1—which was posted on July 16, 2009. Revision 1 included two additional projects to support a newly-confirmed transmission service reservation.

The ICT posted a draft reliability assessment report on July 17, 2009. Subsequent to that posting, Entergy provided a second revised draft Construction Plan—Revision 2—to the ICT which was posted on August 3, 2009. This revision greatly expanded the number of proposed construction projects, containing some twenty-five (25) additional projects and accelerating the in-service dates of some eleven (11) others.



In the 2008 "Differences Report" identifying the differences between the 2008 ICT Base Plan and Entergy's 2009-11 Construction Plan, twenty (20) projects were identified that were contained in the ICT's Base Plan that were not included in Entergy's Construction Plan. Of those twenty, twelve (12) have now been included in the draft 2010-2012 Construction Plan. Entergy also added alternative projects which are intended to displace another seven (7) Base Plan projects. And for one difference, Entergy added a part of the Base Plan project and indicated that the full project is expected to be completed in a later Construction Plan. Therefore, all twenty differences reported in the 2008 Differences Report have been addressed in some way in the draft 2010-12 Construction Plan.

3.1. New Projects in the Draft 2010-2012 Construction Plan Revision 1

Projects that are new in the draft 2010-2012 Construction Plan

Project Name	Projected In- service Date	Funding Comments
Delhi 115 kV Substation – Add 10 Ohm series reactor	2012	Proposed & In Target
Grand Gulf Uprate Project - Baxter Wilson to Ray Braswell 500 kV line uprate breakers and switches	2011	Proposed & In Target
Grand Gulf Uprate Project - Upgrade Hartburg to Inland Orange to McLewis 230 kV Line	2011	Proposed & In Target

3.1.1. New in Revision 1 Draft Construction Plan



3.1.2. New in Revision 2 Draft Construction Plan

Project Name	Projected In- service Date	Funding Comments
Beebe 115 kV Substation: Add capacitor bank	2010	Proposed & In Target
Mt. Ida 115 kV Substation: Add capacitor bank	2010	Proposed & In Target
Melbourne to Sage 161 kV: Upgrade line	Winter 2010	Proposed & In Target
Harrison East to Everton Road: Replace 600 A switches and line trap at Harrison East with 1200 A equipment	2011	Proposed & In Target
Holland Bottoms (Cabot EHV): Construct new 500/161/115 kV substation Phase 1) 500 -115 kV in 2011 Phase 2) 500 -161 kV in 2012	2012	Proposed & In Target
Construct new Ebony 161 kV Switching Station	2012	Proposed & In Target
Holland Bottoms to Hamlet: Construct new 161 kV Line	2012	Proposed & In Target
Jonesboro to Hergett: Upgrade 161 kV line	2012	Proposed & In Target
Benton North to Benton South: Upgrade 115 kV Line	2012	Proposed & In Target
Addis to Cajun 230 kV line - Upgrade	2011	Approved
Construct 2nd Dynegy to Pecan Grove 230 kV line	2012	Proposed & In Target
Tejac to Marydale: Upgrade 69 kV transmission line	2012	Approved
Nelson to Mossville - Upgrade 138 kV Line	2013	Proposed & In Target
Snakefarm to Kenner 115 kV line: Upgrade thermal capacity	Winter 2010	Proposed & In Target
Southeast LA Coastal Improvement Plan: Phase 3 Construct Oakville to Alliance 230kV Line and add 230 - 115 kV Autotransformer at Alliance Substation	2012	Proposed & In Target
Bogue Chitto - Construct new 500-230 kV substation on the Daniel to McKnight 500 kV line. Tie into Bogalusa to Ramsay and Bogalusa to Talisheek 230 kV Lines. Upgrade Bogue Chitto to Madisonville 230 kV line	2013	Proposed & In Target
Bayou Steel to Tezcuco 230 kV line - Construct new line	2012	Proposed & In Target
Construct new Willow Glen to Conway 230 kV line	2014	Proposed & In Target
Upgrade Florence to Star 115 kV line (continuation of TVA Affected System Upgrades)	Summer 2011	Proposed & In Target
Reconductor Waterways to Vicksburg East 115 kV line	2011	Proposed & In Target
McAdams Area Upgrades McAdams Substation: Add 2nd 615 MVA 500 kV / 230 kV Autotransformer McAdams - Pickens 230 kV line: Upgrade to Double-Bundled 954 ACSR (880 MVA)	2011	Proposed & In Target
Getwell 230/115 kV 2 nd Auto Getwell to Hernando - Construct 230 kV line. Operate at 115 kV	2013	Proposed & In Target
Cedar Hill - Plantation 138 kV line: Upgrade	2012	Proposed & In Target
Plantation to Conroe 138 kV line: Upgrade	2012	Proposed & In Target
Jasper to Rayburn 138 kV line: Upgrade	2013	Proposed & In Target



1

3.2. Completed Projects From the Prior 2009-2011 Construction Plan

Projects that were in the 2009-11 Construction Plan that have been completed.

Project Name	Notes
Natchez DVARS and Cap Bank (Natchez Delisting)	Completed
Dewitt: Install 10.8 MVAr Capacitor Bank	Completed
Little Rock 8th and Woodrow - Upgrade capacitor bank to 33.3 MVAR	Completed
Little Rock Boyle Park - Upgrade capacitor bank to 33.3 MVAR	Completed
Little Rock Rock Creek - Install new 30.5 MVAR capacitor bank	Completed
Little Rock W Markham - Install new 30.5 MVAR capacitor bank	Completed
Maumelle East Substation - Install Second Transmission Tie	Completed
Rison: Upgrade switch risers	Completed
Conway West - Donaghey: Reconductor with 666 ACSS	Completed
Winn: Install 69kV Cap Bank	Completed
Capitol Substation: Property Improvements	Completed
Amite South Import Improvement: Phase 3	Completed
Southeast LA Coastal Improvement Plan: Phase 1 - Peters Road 230 kV Transfer Bus	Completed
Destrehan: Install Line Breaker	Completed
Install 40MVAR Cap Bank at Houma	Completed
Amite South Import Improvement: Phase 2	Completed
Liberty-Gillsburg 115 kV upgrade	Completed
Hamlet 161 kV Substation: Install 161 kV Breaker on Conway Industrial Line	Completed
Acadia 138 kV Substation: Install 36 MVAR Capacitor Bank	Completed
Waterford 4: Blackstart generator interconnection	Completed
Liberty-Gloster: Upgrade 115 kV Line For Natchez De-listing	Completed
Sheco Jacinto - Generator Interconnection	Completed

3.3. Other Changes Between the Current (2009-11) and Draft (2010-12) Rev 1 Construction Plans

Projects that have had modifications made to the expected in-service dates (ISD) and other changes:

Project Name	Type of Change	Changed From	Changed To
Western Region Reliability Improvement Plan Phase 3 Interim	Scope	Add Alden SVC [removed]	Relocate Sheco's Caney Creek 138 kV Substation [added]
Church Rd Substation & 11.3 miles 230kV	ISD	2010	2012
Grenada/Winona/Greenwood Area Improvement (Tillatoba auto alternative): Phase 1	ISD	2011	2013
Grenada/Winona/Greenwood Area Improvement (Tillatoba auto alternative): Phase 2	ISD	2013	2014
Indianola-Greenwood: Upgrade jumpers and buswork (Morehead, Itta Bena, Greenwood)	ISD	2009	Winter 2009
Tamina - Cedar Hill Reconductor	ISD	2011	Winter 2011



3.4. Projects that Have Been Accelerated from Revision 1 to Revision 2 Draft Construction Plan

Project Name	Type of Change	Changed From	Changed To
Transmission Service (OG&E) Upgrade ANO - Russelville North OGE Upgrade Russelville East - Russelville South OGE	ISD	Winter 2011	Winter 2010
Loblolly-Hammond Build 230 kV Line	ISD	2013	2012
Bogalusa to Adams Creek 230 kV No. 2 - Upgrade terminal equipment at Bogalusa	ISD	2011	Winter 2010
Delhi 115 kV Substation - Add 10 Ohm series reactor	ISD	2012	Summer 2010
TVA Affected System Upgrades Upgrade switches at Morton Upgrade South Jackson - Florence 115 kV line	ISD	Summer 2011	Winter 2010
Grand Gulf Uprate Project Baxter Wilson to Ray Braswell 500 kV line uprate breakers and switches	ISD	2011	2010
Ridgeland-Madison Reliability Improvement Rebuild Lakeover - Ridgeland Line	ISD	2014	2012
Grenada/Winona/Greenwood Area Improvement (Tillatoba auto alternative): Phase 1 Add 2nd Cap Bank at Winona Upgrade Cap Bank at Greenwood Install Cap Bank at Schlater	ISD	2013	2010
Grenada/Winona/Greenwood Area Improvement (Tillatoba auto alternative): Phase 2 Build 230 kV line from Tillatoba to South Grenada Install Auto at South Grenada	ISD	2014	2012
Western Region Reliability Improvement Plan Phase 3 Interim (Part 3) Upgrade South Beaumont to Fontenot Corner 138 kV line	ISD	Summer 2011	Winter 2010

3.5. Projects that Have Been Delayed from Revision 1 to Revision 2 Draft Construction Plan

Project Name	Type of Change	Changed From	Changed To
Ray Braswell - Wyndale-Byram (S. Jackson) 115kV Line	ISD	2012	2013
College Station 138kV Switching Station Close N.O and upgrade protection to create 3 terminal line	ISD	Summer 2009	Winter 2010
Fawil: Upgrade 138/69 kV Auto	ISD	Summer 2009	Winter 2009
Porter - Tamina: Replace Breaker/Switches	ISD	Fall 2009	Winter 2009

The full draft 2010-2012 Construction Plan is available on the ICT Planning Page on Entergy's OASIS.



4. Reliability Assessment and Construction Plan Evaluation Results

Entergy's Revision 2 to its draft Construction Plan included several new projects, accelerated the in-service dates of several others, and delayed a handful. These modifications have significantly changed the results that were reported in the draft version of this report. The format of these results have therefore changed somewhat to better summarize the results.

4.1. Near-Term Period – 2010 and 2014

4.1.1. System Intact

An analysis of system intact conditions revealed few problems. Melbourne-Sage 161 kV is projected to be overloaded in the winter seasons. Entergy has added a new project to upgrade this element by winter 2010 which would eliminate this condition. Emerging thermal problems are Mossville-Canal La 69 kV, and Zachary REA-Port Hudson 69 kV. Mount Ida 115 kV voltage is projected to be slightly low in 2010 summer, but Entergy's addition of a capacitor bank upgrade by 2010 would eliminate this condition. High voltages are noted on the secondary sides of a few transformers.

4.1.2. Single Contingency

Summary results of single contingency scans—with Entergy's draft Construction Plan projects included—are provided in Attachment B to this report showing thermal overloads, low and high voltages. The full contingency scan results are available on the ICT Planning Page on Entergy's OASIS. The attachments reflect the results of both bus-to-bus and breaker-to-breaker analyses and the application of the 100 MW Rule discussed above. There are a number of overloads and low voltages in 2010 that do not appear in later years. This is primarily because Construction Plan projects that have in-service dates between 2010 and 2014 were included in the 2014 models, but not the 2010 models. There are draft Construction Plan projects which will address all of these problems, though in some cases not before 2010 summer. Entergy has indicated that it may not be feasible to accelerate these projects further. These projected problem areas are shown in Table1 along with the draft Construction Plan project that is expected to eliminate the condition.



Table 1 - 2010 Problem Areas with Identified Construction Plan Projects to Mitigate Them

Projected Problem Area	Draft CP Project and Est. In-Service Date
Fish Creek-Longmire 138 kV (Western)	College Station 138 kV Switch Station (2010)
Chlomal-Jennings 69 kV corridor (SW La.)	Carter & Elton (2010)
Acadiana Area (S La.)	Acadiana Area Improvement Project
	Phase 1 (2011) and Phase 2 (2012)
Holiday-Lafayette 69 kV (S La.)	Youngsville 138 kV Substation (2011)
Willow Glen-Monochem & Sorrento-Vignes (SE	Willow Glen-Conway 230 kV (2014)
La.)	
Liberty-Amite & Brookhaven-Norfield (S Miss.)	Bogue Chitto 500/230 kV (2013)
South Jackson-Brookhaven 115 kV corridor (S	Ray Braswell-Wyndham-Byram (2013)
Miss.)	
Tillatoba-Winona 115 kV corridor (Central Miss.)	Grenada Area Improvement Phase 2 Project
	(2012)
Hot Springs-Amity Tap 115 kV (Central Ark.)	Aquila TSA (2011)
Lynch-McAlmont 115 kV (Central Ark.)	Holland Bottoms (2012)
Harrison-Everton 161 kV (N Ark)	Harrison East Switches (2011)
Harrison-Eureka 161 kV corridor (N Ark.)	Grandview (2011)

Entergy has added or accelerated a number of projects in its draft Construction Plan which will address several potential problem areas which are projected in 2014. These areas were identified in the ICT's draft report and are shown in Table 2 along with the CP project which is expected to provide relief by 2014.

Table 2 - 2014 Problem Areas with Identified Construction Plan Projects								
Projected Problem Area	Draft CP Project and Est. In-Service Date							
115 kV system south of Valentine-Barataria-Port Nickels (SE La.)	SE LA Coastal Improvement Phase 3 (2012)							
Waterford-Tezcuco 230 kV Belle Point-Gypsy 230 kV (SE La.)	Bayou Steel-Tezcuco (2012)							
Kenner-Snakefarm 115 kV (SE La.)	Kenner-Snakefarm (2010 Winter)							
Waterways-Vicksburg East 115 kV (SW Miss.)	Waterways-Vicksburg East (2011)							
Baxter Wilson-Ray Braswell 500 kV (SW Miss.)	Baxter Willson-Ray Braswell 500 kV (2010)							
Benton-Bauxite-Mabelvale 115 kV Corridor (Central Ark.)	Benton S-Benton N (2012)							
Cabot Area 115 kV Voltage (Central Ark.)	Ward Capacitor (2010)							
Morrilton East-Gleason-Tyler 161 kV (Central Ark.)	Holland Bottoms-Hamlet (2012)							

2014 Broblem Areas with Identified Construction Plan Projects

This leaves a small number of projected problem areas for which there has been no Construction Plan project identified, although there may be a mitigation plan that doesn't involve an upgrade project. These are areas that will be evaluated further to determine what the appropriate mitigation plan should be for the ICT Base Plan. If Entergy later adds a project to its final Construction Plan, the ICT will evaluate it for possible inclusion in the Base Plan. Table 3 shows these areas.



Projected Problem Area	Comment
Calvert 69 kV (Low Voltage) (Western)	
New Caney 138 kV (Low Voltage) (Western)	
Port Neches Bulk-Sabine 138 kV	Possible mitigation: Operating Guide
Port Neches Bulk-Linde 138 kV (SE Tex.)	r coolore magaacin operaang calac
Kolbs-Lakeview 69 kV (SE Tex.)	
Mossville-Line 253A Tap 69 kV (SW La.)	
Cecelia-Semere 138 kV (S La.)	
Fivepoints-Tigre 69 kV (S La.)	Possible mitigation: Existing spare transformer
Carlisle (La.) 115 kV (Low Voltage) (SE La.)	Possible mitigation: Automatic load transfer
Horn Lake-Hernando 115 kV Corridor (N Miss.)	Getwell-Batesville 230 kV Project will alleviate these problems in the long term. Entergy included the first leg in the draft CP. Transformer tap adjustments are also being investigated for possible short-term mitigation.
Parkin-Twist 161 kV (NE Ark.)	Alternatives under consideration.
Bull Shoals SPA-Bull Shoals Entergy 161 kV (N Ark.)	SPA has a planned upgrade for 2011.
Norfork-Calico Rock-Melbourne 161 kV (N Ark.)	Alternatives under consideration.

Table 3 - 2014 Problem Areas Needing Mitigation Plan

Other Thermal and Voltage Conditions Noted:

- Minden-Minden Lagen 115 kV (NW La.) was identified in the draft report, but was moved to the longerterm section after additional analysis.
- Bull Shoals SPA-Bull Shoals Entergy 161 kV (N Ark.) will be mitigated by a planned project included in the SPP Transmission Expansion Plan.

4.1.3. Bogue Chitto Project

The proposed Bogue Chitto project in southeast Louisiana, added in draft CP Revision 2, is envisioned to provide support to the underlying system and provide an additional source into the area, in particular the New Orleans metro area. The project as currently proposed includes a 500/230 kV station near the intersection of the Daniel-McKight 500 kV line, the Bogalusa-North Slidell 230 kV line and Bogalusa-Ramsay 230 kV line. The ICT's analysis shows that the underlying 230 kV system would require additional reinforcements. Entergy has indicated that the project scope is still preliminary and that alternatives are being considered.

4.1.4. Operating Guides

Some of the problems identified in this report may be manageable through the use of manual Operating Guides. A manual Operating Guide is a set of instructions for making system adjustments which operators can manually implement in real-time to manage thermal and voltage problems. Use of Operating Guides as a mitigation plan is permitted under the Planning Criteria. The ICT Planning Department's policy is to use only those Operating Guides that have been documented and made available to the ICT Reliability Coordinator and Planning Department and that have been tested to verify effectiveness.

Because the reliability assessment is intended to identify problem areas, the impact of manual Operating Guides has not yet been evaluated for the current-year assessment. Operating Guides will be considered along with



other mitigation plans, including transmission upgrades, during the development of the Base Plan later in the planning cycle.

4.1.5. A Word About Webre-Wells

In response to questions about the Webre-Wells constraints, the ICT notes that with Entergy's draft Construction Plan projects in service, these constraints are not projected to occur under the conditions tested for in this reliability analysis. The ICT's analysis suggests that these constraints are affected both by the planned Acadiana Improvement Projects, and by the confirmation of new long-term firm service reservations which altered the generation dispatch pattern in the long-term models. It should be understood that the conditions that give rise to the Webre-Wells constraints may still occur under real-time dispatch patterns when short-term and non-firm economy transactions are taking place.

4.1.6. High Voltages

There are a few high voltages associated with contingencies. These appear primarily at transformer secondaries and most are not of concern, particularly during peak periods. Especially high voltages at Mt. Olive 500 kV and Walnut Ridge-Paragould 115 kV with the examined more closely, especially under light-load conditions.

4.1.7. Low Hydro

In addition to the base case conditions, an analysis was performed to simulate limited availability of hydro resources during summer peak periods. The three summer models (2010, 2014, and 2018) were tested for the unavailability of two large units individually, and with multiple units at 50% of their base case dispatch. A single contingency scan was then performed for each case.

This scenario revealed several potential problems that either manifested only under these conditions or were made more severe. In some cases, this may indicate a need to accelerate planned upgrades or mitigation plans or develop new ones. Areas in which these conditions appeared include the system around Conway, Harrison-Eureka 161 kV, and Norfork-Sage 161 kV. A list of these conditions is included in the attachments.

4.1.8. Load Pockets

Load Pocket sensitivities were performed according to the contingencies defined in the Planning Criteria for the Western Region, Amite South, and Downstream of Gypsy (DSG) load pockets. In general, the Planning Criteria calls for load pockets to be planned to withstand simultaneous loss of both a large generator and a transmission line. In Western Region, the criteria calls for the system to withstand the loss of one Lewis Creek unit and a transmission line. In Amite South, the criteria calls for the loss of the largest unit (currently Waterford 3) and the most critical transmission element (Waterford-Willow Glen 500 kV). In DSG, the criteria calls for the system to withstand the loss of one large unit and a transmission line. The system was tested (1) for loss of Ninemile 5 and a 230 kV line into the load pocket, and (2) for loss of Michoud 3 and a 230 kV line into the load pocket. The sensitivities were performed on the 2014 summer model.



The results were that although some voltage and loading conditions were more severe under these conditions, there were no problems identified that were not also identified as problems under single contingency conditions.

4.2. Longer-Term Period – 2018

Analysis of the 2018 model indicated a number of overloads and voltage problems that do not appear in the earlier seasons. These indicate potential emerging problems that may manifest with increasing load levels. Because they are beyond the near-term period, it is not expected that these conditions will require upgrades in the next Base Plan, but may indicate areas that should be monitored and considered in the development of long-term plans.

In contrast to these new problems, other loading and voltage problems in the 2018 model can be characterized as extensions of problems occurring in earlier seasons. These should be taken into consideration in the development of the Construction Plan in order to optimize the economic benefit of currently-planned construction projects.

Table 4 shows these areas for the longer-term.

Table 4 - Longer-Term Problem Areas									
Projected Problem Area	Comment								
Tubular-Dobbin 138 kV Area (Western)									
Dayton 138 kV Area (Western)									
Kolbs/Hanks Area (SE Tex.)									
Tigre-L247 Tap 69 kV (S La.)	Possible mitigation: Existing spare transformer								
Lake Arthur, Klondike 69 kV (S La.)									
Sorrento-Gonzales (SE La.)									
Gypsy-Claytonia 115 kV Area (SE La.)									
Minden-Minden LaGen 115 kV (N La.)									
S Jackson-E Jackson 115 kV (Central Miss.)									
Andrus 230/115 kV transformer (Central Miss.)									
Horn Lake Area (N Miss.)	Possible mitigation: Getwell-Batesville 230 kV								
Marked Tree-Twist 161 kV (NE Ark.)									
Trumann-Trumann West 161 kV (NE Ark.)									
NLR Dixie-Lakewood 115 kV (Central Ark.)									
Bull Shoals-Norfork 161 kV (N Ark.)									
Helena Area (E Ark.)	Possible mitigation: Operating Guide								
Cabot Area (Central Ark.)									

 Table 4 - Longer-Term Problem Areas



5. Stakeholder Participation

Attachment K of Entergy's OATT describes the planning process which includes stakeholder involvement through the Long-Term Transmission Issues Working Group (LTTIWG). Stakeholder participation and review is a key function of the LTTIWG, which incorporates vital input from stakeholders throughout the planning process. LTTIWG meetings are open, and the agendas are posted on SPP.org. Entergy stakeholders are encouraged to actively participate in the LTTIWG to ensure that all points of view are represented in the transmission planning process. Stakeholders are invited to comment on this reliability assessment and the subsequent development of the final Construction Plan and Base Plan. Formal avenues for stakeholder involvement that have been completed and that are planned in this planning cycle include:

- Review of and input to the ICT's Reliability Assessment Scope at LTTIWG March 17, 2009
- Review of and input to Entergy's draft Construction Plan at LTTIWG on June 9, 2009
- Review of and input to the ICT's draft Reliability Assessment at LTTIWG on July 22, 2009
- Review of and input to the ICT's final Reliability Assessment at Transmission Summit August 11, 2009
- Stakeholder formal comment period August 11-September 4, 2009
- Review of stakeholder comments at September 15, 2009 LTTIWG
- Review of the ICT's draft Base Plan at October/November LTTIWG
- Review of the ICT's final Base Plan at January LTTIWG



Attachments

Attachment A - Reliability Assessment Scope

Attachment B - Contingency Scan Results Thermal Overloads Low Voltages High Voltages Low Hydro Thermal Low Hydro Voltages

2010 ICT Reliability Assessment Scope

Objective

The objective of the Reliability Assessment is to assess the ability of the Entergy transmission system to perform according to the Planning Criteria in both near-term and long-term horizons.

Models

- Base Case 2008-Series Update1.
- Summer and Winter Peak 2010 and 2014 for near-term.
- Summer Peak 2018 for longer-term.

Model Preparation

The Base Case Model will be updated to reflect:

- 1. The latest confirmed transmission service reservations.
- 2. Updated topology: equipment which has been newly placed in-service.
- 3. Committed and Proposed Construction Plan Projects in the season in which the facilities are expected to be complete and for all seasons thereafter.

Software

- PSSE v31
- MUST 8

Contingency Scan

Category A

- 1. The Base Case Model will be evaluated under normal, system-intact conditions.
- 2. Monitored elements must remain within the thermal and voltage limits specified in Entergy's Transmission Local Planning Criteria for Category A, currently flows less than 100% of RATEA; voltages between 0.95 and 1.05 per unit.
- 3. Identify all elements that do not meet the Category A limits.

Category B

- 1. An N-1 contingency scan will be run on the Base Case Models.
- 2. Monitored elements must remain within the thermal and voltage limits specified in Entergy's Transmission Local Planning Criteria for Category B, currently flows less than 100% of RATEA; voltages between 0.92 and 1.05 per unit.
- 3. For each monitored element that does not remain within these limits, the breaker-to-breaker circuit for the contingency will be identified and an analysis will be done with the entire circuit out of service, if the breaker-to-breaker outage differs from the simulated outage.
- 4. The amount of load shed by breaker operation, Consequential Load, will be recorded and reported for constrained elements.

Monitored Elements

- Entergy Internal:
 - Transmission elements within Entergy's footprint (including embedded Areas) with nominal voltage 69 kV and higher.
 - Ties to outside Areas at 69 kV and higher.

- •
- CLECO & LUS: Transmission elements with nominal voltage 69 kV and higher. All other first-tier Areas (AECI, SOCO, TVA, SMEPA, SWPA, AEPW, OKGE, EMDE): • Transmission elements with nominal voltage 345 kV and higher.

Contingencies

• Same as Monitored Elements

THERMAL OVERLOADS

Entergy Draft 2010-2012 Construction Plan Included in Model CP-Rev 1 = Draft Construction Plan Revision 1 Posted July 17, 2009 CP-Rev 2 = Draft Construction Plan Revision 2 Posted August 3, 2009

System Intact System Intact Overload (% RateA										% RateA)
	2010 Summer		2010 Winter		2014 Summer		2014 Winter		2018 Summer	
MONITORED ELEMENT	CP-Rev 1	CP-Rev 2								
335094 2MOSSVL 69 - 335102 2CANAL-LA 69 1							101.9	101.9	102.0	101.9
335346 2SCOTT 69 - 503304 RAYNE 2 69 1									105.5	
335781 2ZAC REA 69 - 335782 2PTHUDSONA 69 1					101.3	101.2			114.0	113.9
335844 8BOGCHTA 500 - 335845 6BOGCHTA 230 1						126.3		131.5		130.0
338131 5MELBRN 161 - 338132 5SAGE * 161 1			103.3				104.6			

	2010 Summer 2			Mintor	2014 6		2014 Winter		2018 Summer	
MONITORED ELEMENT	2010 S CP-Rev 1	CP-Rev 2	2010 CP-Rev 1	Winter CP-Rev 2	2014 S CP-Rev 1	CP-Rev 2	2014 V CP-Rev 1		CP-Rev 1	
303221 6TALISK 230.00 - 335845 6BOGCHTA 230.00 1								121.9%		
303221 6TALISK 230.00 - 500640 NSLID 6 230.00 1								102.2%		
334043 4TUBULAR 138 - 334044 4DOBBIN 138 1									124.0%	123.69
334045 4FISHCRK 138.00 - 334075 4LONGMIR 138.00 1		104.2%							12 110/0	12010/
334120 4NU LION 138 - 334211 4BDAYTON 138 1		20112/0							106.6%	106.49
334282 4RAYBURN 138 - 334330 4JASPER 138 1									101.1%	
334413 4PNEC BK 138 - 334430 4SABINE 138 1					102.0%	102.1%			106.0%	105.79
334414 4LINDE 138 - 334430 4SABINE 138 1					100.9%	101.0%			104.6%	104.89
334600 2KOLBS 69 - 334620 2LAKEVEW 69 1					100.7%	100.7%	101.6%	101.5%	102.1%	102.19
335094 2MOSSVL 69 - 335107*2ALFOL 69 1	104.9%				106.8%	1000770	101.070	101.070	106.1%	10211/
335094 2MOSSVL 69 - 335108*2L253ATP 69 1	102.9%	102.9%			104.8%	104.8%			104.1%	104.19
335125 4MOSSVL 138 - 335200 4NELSON 138 1									103.4%	
335190 6NLSON 230 - 303101 6MOSBLF 230 1					106.4%				110.7%	
335217 2CHLOMAL 69 - 335250*2IOWA 6 69 1	108.9%				100.470				210.770	
335217 2CHLOMAL 69 - 335250 210WA 0 09 1	109.1%									100.49
335258 2COMPTON 69 - 335259*2L13ATP 69 1	110.3%									100.47
335259 2L13ATP 69 - 335266*2JENNGS 69 1	111.6%									
335346 2SCOTT 69 - 335435 2CARNCRO 69 1	111.078								122.0%	
335346 2SCOTT 69.000 - 503304 RAYNE 2 69.000 1									122.070	105.89
335378*4SCOTT2 138 - 303152 4SEMERE 138 1	107.2%	108.3%								105.67
335379*4SCOTT1 138 - 303130 4NCROWL 138 1	107.2%	108.3%								
335379 43COTT1 138 - 303130 4NCROWL 138 1 335379*4SCOTT1 138 - 303132*4JUDICE 138 1	104.2%	104.7%	108.8%	108.8%						
335379 43COTT1 138-305132 430Dice 1381 335379 4SCOTT1 138.00 - 502404 BONIN 4 138.00 1	109.5%	109.3%	100.070	100.070						
335380*4MEAUX 138 - 303132*4JUDICE 138 1	101.4%	100.8%								
335380 4WEAUX 138 - 305132 4JUDICE 138 1 335387*4DELCAMB 138 - 335388 4MORIL 138 1	101.4%	101.3%								
335387 4DELCAMB 138 - 335388 4MORIL 138 1 335389*4DUBOIN 138 - 335390 4BUWHSE 138 1	103.1%	101.2%								
335389 4D0B0IN 138 - 335390 4B0WHSE 138 1 335390*4BUWHSE 138 - 500440 IVANHOE4 138 1	126.9%	126.4%								
	101.9%	101.5%					103.7%	103.7%		
335391 4CECELIA 138 - 303152 4SEMERE 138 1	-				105.6%	105.6%	103.7%	103.7%	113.2%	113.89
335400 2FIVEPTS 69 - 335401 2TIGRE 69 1 335401 2TIGRE 69 - 335403 2L-247TP 69 1	-				105.0%	105.0%			103.7%	104.29
	110 200	117.3%							103.7%	
335411*2HOLIDAY 69 - 335412 2LAFAYET 69 1	<u>116.3%</u>	117.3%								102.0%
335439 2L658TP 69 - 335441 2L637TP 69 1	-						102.10/		100.0%	
335536 6ADDIS 230 - 303000 6CAJUN1 230 1	-		102 10/	100.00/			103.1%			
335593 4MONOCM1 138 - 335595*4ALCHEM 138 1	-		102.1%	100.9%					101 10/	
335595*4ALCHEM 138 - 335601 4WGLEN-2 138 1 335610 4WGLEN 138 - 335628 T300/331 138 1	-		101.0%	101.0%					101.1% 102.3%	
	_									420.00
335625 4GONZL 138 - 336050 4SORXFM 138 1	-							100 40/	141.1%	139.69
335845 6BOGCHTA 230.00 - 500750 RAMSAY 6 230.00 1	-							136.4%	402.20/	106.4%
335627 40AKGROV 138 - 335628 T300/331 138 1	-								102.3%	
335782 2PTHUDSONA 69 - 335805 4PT HUD 138 1	-								100.1%	
335787 2MCMANUS 69 - 335788 2BRADYH 69 1	_								101.0%	
335791 2TEJAC 69 - 335792 2MRYDALE 69 1					104.8%		104.9%		111.0%	
335796 2PTHUDSONB 69 - 335805 4PT HUD 138 2					407 444				100.1%	
336037 3VLNTIN 115 - 336080 3CLOVEL 115 1					125.1%				123.7%	
336050 4SORXFM 138 - 336051 3SORNTO 115 1			10	105.5					132.4%	132.39
336060*6SORR 2 230 - 303200 6VIGNES 230 1			102.7%	102.8%	110 51					
336068 6BLPNT 230 - 336190 6GYPSY 230 1	_				113.7%				113.7%	
336069 6TEZCUCO 230 - 336154 6WATFRD 230 1					101.7%				101.6%	
336080 3CLOVEL 115 - 336081 3GMEADW 115 1					103.5%				102.4%	
336092*3CARLSL 115 - 336293 3PTNICK 115 1	124.4%	124.4%	122.0%	122.0%	126.9%		123.8%		126.3%	
336111 3AMITE 115 - 336517*3GILBR* 115 1			105.0%	104.9%						
336131 6ADMSCRK 230 - 336136*6BOGALUS 230 2	1		126.3%							

17

		ummer		Ninter	2014 Summer		2014 Winter		2018 Summer	
MONITORED ELEMENT		CP-Rev 2	CP-Rev 1	CP-Rev 2		CP-Rev 2		CP-Rev 2	CP-Rev 1	
336232*3KENNER 115 - 336233 3SNFARM 115 1	100.3%	100.3%			109.4%		108.6%		118.9%	100.4%
336515*3LIBRTY 115 - 336517*3GILBR* 115 1			102.3%	102.2%						
336552 3NORFLD 115 - 336553*3MALIL* 115 1			104.1%	104.0%						
336553*3MALIL* 115 - 336554 3BROKHV 115 1			108.4%	108.3%						
336554 3BROKHV 115 - 336770*3WESSON 115 1	103.1%	103.1%								
336765 3FLRNCE 115 - 336890*3JAX-S 115 1			106.2%							
336771 3JAM RD* 115 - 336772*3HZLHST 115 1	125.2%	125.2%								
336772 3HZLHST 115 - 336773*3COPHSW* 115 1	109.1%	109.1%								
336805 3WATERWY 115 - 336806 3VKB-E* 115 1					107.9%				107.7%	
336830 8B.WLSN 500 - 336839 8R.BRAS 500 1							102.2%			
336871*3JAX-FH 115 - 336880 3R.BRAS 115 1	108.1%	108.0%								
336890 3JAX-S 115 - 336911 3JAX-E 115 1									103.6%	103.2%
336897*3PELAHE 115 - 336898 3MORTON 115 1			104.9%							
337040 6ANDRUS 230 - 337042 3ANDRUS 115 1									103.1%	103.0%
337060 3WINONA 115 - 337061*3SAWYR* 115 1	106.6%	100.0%								
337098 3CLARKD 115 - 337100*6MEPSCLK 230 1	120.6%	120.5%	120.7%	120.6%	120.5%	120.5%	120.1%	120.1%	120.5%	120.7%
337126 3BATESV 115 - 337135 3SARDIS 115 1									124.4%	
337135 3SARDIS 115 - 337136 3SNTOBI 115 1									106.4%	
337136 3SNTOBI 115 - 337137 3CLDWTR 115 1									134.4%	
337137 3CLDWTR 115 - 337138 3HRNADO 115 1									112.7%	
337139 3GETWEL 115 - 337141 3NESBT* 115 1									104.2%	102.1%
337143 3PLUM PT 115 - 337144 3GRNBRK 115 1									120.2%	119.6%
337144 3GRNBRK 115 - 337150 3HN LAK 230 1					120.5%	120.1%			159.5%	158.9%
337150 3HN LAK 115 - 337150 3HN LAK 230 1									100.4%	
337361 3MINDEN 115 - 303302 3MNDENLG 115 1					127.2%		121.0%		142.6%	142.7%
337415 3STERL 115.00 - 337420 8STERL 500.00 2				100.6%						
337674 3AMITY * 115 - 338850*3ALPINE# 115 1			100.5%	102.3%						
337678*3BISMRK 115 - 337685*3HSEHVW 115 1	100.7%	101.9%	111.6%	113.0%						
337678*3BISMRK 115 - 338850*3ALPINE# 115 1			104.8%	106.4%						
337800 3HASKEL 115 - 337801 3BENT-S* 115 1									105.0%	
337803 3BRYANT 115 - 337804 3MABEL 115 1					100.2%				112.6%	
337905 5RUSL-E 161 - 337906 5RUSL-N 161 1									100.6%	
337921 5MOR-E 161 - 337927 5GLEASN 161 1	1				105.7%				119.0%	
337927 5GLEASN 161 - 338424 5TYLER 161 1					101.5%				115.0%	
337928 3CONW-W 115 - 338422 5CONW-W 161 1					1011070				102.7%	
337929 3LK CON 115 - 337930 3MAYFL 115 1									111.0%	
337936 3SYLVN 115 - 337938 5SYLVN 161 1									110.8%	
337938 5SYLVN 161 - 338748 5GRAVEL# 161 1									114.6%	
337939 5GOLDCR* 161 - 337940 5HAMLET* 161 1					100.6%				117.4%	
337952 3LYNCH 115 - 338481*3MCALMT 115 1	111.9%	109.9%			100.070				117.470	
338033 5PARKIN 161 - 338041 5TWIST 161 1	111.570	105.570			103.4%	101.9%			121.0%	118.6%
338041 5TWIST 161 - 338165 5MTREE 161 1	1				101.2%	101.570			118.0%	113.0%
338104 5HARR-E 161.00 - 338107 5EVRTON 161.00 1				107.1%	101.270				110.070	113.070
338104*5HARR-E 161 - 338681 5HARR-S 161 1	101.1%	100.9%		107.170						
338104 SHARK-E 101 - 338081 SHARK-S 101 1 338108 SST JOE 161 - 338110*5HILLTOP 161 1	101.1%	100.9%	102.9%				101.3%			
338123 5BULLSH* 161 - 505460 BULL SH5 161 1			102.970		101.1%	102.3%	101.5%		106.0%	107.4%
338130 5CALCR 161 - 338131*5MELBRN 161 1	1		115.3%	115.9%	101.1%	102.3%	114.1%	113.1%	100.6%	107.4%
	1		115.3%				114.1%		100.0%	
338130*5CALCR 161 - 505448 NORFORK5 161 1 338131 5MELBRN 161 - 338132*5SAGE * 161 1	101.7%	101.3%	100.2%	109.1%	102.4%		107.1%	100.4%	108.0%	
338131 SMELBRN 161 - 338132 SSAGE * 161 1 338169 5TRUMAN 161 - 338707 5TRUM-W# 161 1	101.7%	101.5%			102.4%				108.0%	108.5%
338109 STRUMAN 161 - 338707 STRUM-W# 161 1 338422 SCONW-W 161 - 338424 STYLER 161 1	ł									108.5%
338422 SCONW-W 161 - 338424 STYLER 161 1 338483 3NLR-DX 115 - 338487 3LAKEWD 115 1	ł								100.2% 108.8%	106.3%
	100.201	100.40							108.8%	106.3%
338682 50SAGE # 161 - 506932*EUREKA 5 161 1	100.2%	100.1%							102.004	102 70
338813 5MIDWAY# 161 - 505460 BULL SH5 161 1									102.9%	102.7%
338814 5SOLAND# 161 - 505448 NORFORK5 161 1	 							122.201	105.9%	105.6%
500510 MADISON6 230.00 - 500520 MANDEV 6 230.00 1	 							122.3%		106.1%
500510 MADISON6 230.00 - 500750 RAMSAY 6 230.00 1	1							117.5%		

LOW VOLTAGES

Entergy Draft 2010-2012 Construction Plan Included in Model CP-Rev 1 = Draft Construction Plan Revision 1 Posted July 17, 2009 CP-Rev 2 = Draft Construction Plan Revision 2 Posted August 3, 2009

System Intact

System Intact Violation (P.U.)

	2010 S	ummer	2010 Winter		2014 S	ummer	2014	Winter	2018 Summer		
MONITORED ELEMENT	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	
303132 4JUDICE 138	0.9255		0.9255		0.9255		0.9255		0.9255		
303150 4LEBLAN 138	0.9390		0.9390		0.9390		0.9390		0.9390		
334000 2CALVERT 69					0.9488	0.9442			0.9455	0.9338	
334001 2SINHERN 69	0.9384		0.9384		0.9384		0.9384		0.9384		
334681 3NECHESO 69	0.9445	0.9446	0.9438	0.9427	0.9398	0.9399	0.9371	0.9371	0.9363	0.9363	
335275 2LKARTHR 69									0.9420	0.9446	
335276 2KLONDKE 69									0.9451	0.9477	
337676 3GLENWD 115	0.9492										
337677 3MT IDA 115	0.9407										

Single Contingency

Lowest Contingency Voltage (per unit)

	2010 S	2010 Summer 2010 Winter 2014 Summer		ummer	2014 Winter		2018 Summer			
MONITORED ELEMENT	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2
334045 4FISHCRK 138										0.9133
334084 4CLVELND 138									0.9197	0.9197
334111 4NEWCANY 138					0.9105	0.9106			0.8573	0.8572
334112 4HICKORY 138					0.9195	0.9196			0.8732	0.8731
334113 4EASTGAT 138									0.8898	0.8897
334114 4HUFFMAN 138									0.8860	0.8859
334115 6L533TP8 138									0.9133	0.9132
334116 4KLMP-EX 138									0.9133	0.9132
334209 4ROLKERD 138									0.9164	0.9163
334210 4ADAYTON 138									0.9174	0.9173
334211 4BDAYTON 138									0.9174	0.9173
334216 4GORDON 138									0.9162	0.9161
334283 4MILLCR 138							0.9068		0.9172	0.9173
334284 4PINELND 138							0.9100			
334285 4BROADUS 138							0.9113			
334286 4ETOIL 138							0.9117			
334300 4PEACH 138							0.9153			
334437 6KOLBS 230									0.9186	0.9186
334438 6HANKS 230									0.9184	0.9184
334439 6VFWPK 230									0.9177	0.9177
335137 2PPC NO 69	0.8998	0.8998	0.8756	0.8756	0.8877	0.8876	0.8717	0.8717	0.8922	0.8921
335379 4SCOTT1 138	0.9091	0.9189								
335380 4MEAUX 138	0.8849	0.8848	0.9017	0.9017						
335385 4LEROY 138	0.8767	0.8767	0.8919	0.8919						
335386 4ABBVIL 138	0.8707	0.8707	0.8886	0.8886						
335387 4DELCAMB 138	0.8994	0.9022								
335388 4MORIL 138	0.9099	0.9119								
335391 4CECELIA 138	0.9067	0.9137								
335435 2CARNCRO 69		0.9161							0.9183	
335788 2BRADYH 69									0.9133	
335789 2CLINTON 69									0.9125	
335790 2CLNTREA 69									0.9133	
336085 3ALLIA 115	0.4661	0.4661	0.5015	0.5015	0.4331		0.4893		0.4564	
336092 3CARLSL 115	0.8046	0.8046	0.8156	0.8156	0.7954	0.9048	0.8109	0.9005	0.7995	0.9000
336230 3CLAYTN 115									0.9120	0.9119
336231 3NORCO 115									0.9146	0.9144
336772 3HZLHST 115	0.9169	0.9171								

ICT Reliability Assessment 2009

	2010 5	ummer	2010	Mintor	2014 5	ummor	20141	Mintor	2019 5	ummor
MONITORED ELEMENT		CP-Rev 2	CP-Rev 1	Winter CP-Rev 2		ummer CP-Rev 2		Winter CP-Rev 2	CP-Rev 1	ummer CP-Rev 2
			CF-NEV I	CF-Rev 2	CF-NEV I	CF-Rev Z	CF-NEV I	CP-NEV Z	CF-REV I	CF-REV Z
336773 3COPHSW* 115	0.9151	0.9153								
336774 3GALLMAN 115	0.9081	0.9082								
336775 3CRYSPG 115	0.9017	0.9018								
336776 3TERRY 115	0.8853	0.8854								
336777 3BYRAM 115	0.8802	0.8804								
336898 3MORTON 115									0.9188	0.9191
337061 3SAWYR* 115	0.9140									
337062 3ELLIOT 115	0.8878									
337063 3S GREN 115	0.8841									
337064 3GRNADA 115	0.8781									
337065 3TILTOB 115	0.8701									
337066 3TVA-SHE 115	0.8692									
337067 3CHRSTN 115	0.8593									
337136 3SNTOBI 115									0.8529	0.9012
337137 3CLDWTR 115									0.8253	0.8840
337138 3HRNADO 115	0.9167	0.9168			0.9144	0.9156			0.7952	0.8669
337139 3GETWEL 115	0.9139	0.9140			0.9142	0.9155			0.8655	0.8679
337140 6GETWELL 230	0.9114	0.9114			0.9163	0.9166			0.8713	0.8711
337141 3NESBT* 115	0.9131	0.9131			0.9119	0.9130			0.8620	0.8639
337142 3NESBIT 115	0.9111	0.9112			0.9094	0.9105			0.8588	0.8607
337143 3PLUM PT 115	0.9135	0.9136			0.9112	0.9121			0.8607	0.8621
337144 3GRNBRK 115	0.9177	0.9178			0.9159	0.9166			0.8675	0.8685
337150 3HN LAK 115									0.8838	0.8843
337151 3DESOTO-MS 115									0.8875	0.8879
337152 3WALLS 115									0.9039	0.9039
337180 6HN LAK 230	0.9121	0.9121							0.8790	0.8791
337367 3ARCADIA 115									0.9000	0.8997
337555 3T.E. F 115									0.9145	0.9179
337800 3HASKEL 115									0.9191	
337801 3BENT-S* 115					0.9135				0.8974	
337802 3BAUXIT 115	0.9098	0.9101			0.8948				0.8757	
337803 3BRYANT 115	0.9069	0.9072			0.8914				0.8716	
337981 3MARVEL 115									0.9155	0.9162
337982 3BARTON 115									0.9119	0.9127
337983 3HELN-W* 115									0.9089	0.9096
337984 3HELN-C 115									0.9073	0.9080
338006 3CABOT 115					0.9086				0.8577	0.9176
338007 3BEEBE 115					0.9155				0.8713	0.9176
338007 3BEEBE 113 338008 3GARNER* 115					0.9133				0.8713	0.9105
338009 3T.E.MC 115									0.8907	
338017 3HOLBT-C 115					0.9091				0.8582	
338050 3T.E.#6 115					0.9091				0.8582	
338112 5HEBR-S 161	<u> </u>								0.9108	
338113 5HEBR-I 161	<u> </u>								0.9087	
338160 5EBON S* 161	<u> </u>								0.9185	
338410 5WM-DOV 161									0.9170	
338411 5WM-GAT 161	 								0.9172	
338413 5WM-LH2 161	 								0.9163	
338414 5WM-POK 161	 								0.9125	
338420 5DONAGHE 161	ļ								0.9009	
338421 5CONW-S 161	<u> </u>								0.9019	
338423 5CONIND 161	 								0.9032	
338583 WARD1 69	 								0.8777	
338756 3WARD # 115					0.9022		0.9180		0.8558	0.9151
338757 3BRYNTS# 115	0.9077	0.9079			0.8922				0.8726	
338758 5HEBR-N# 161									0.9069	
338880 3HELN-I 115									0.9069	0.9077

HIGH VOLTAGES

Entergy Draft 2010-2012 Construction Plan Included in Model CP-Rev 1 = Draft Construction Plan Revision 1 Posted July 17, 2009 CP-Rev 2 = Draft Construction Plan Revision 2 Posted August 3, 2009

System Intact								System Intact Violation (P.U			
	2010 S	2010 Summer 2010 Winter		2014 S	ummer	nmer 2014		2018 Summer			
MONITORED ELEMENT	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	
303152 4SEMERE 138	1.0555		1.0555		1.0555		1.0555		1.0555		
334020 4BRYAN 138		1.0604									
334021 4COLSTTA 138		1.0536									
337084 DELTA U2 69							1.0748	1.0752			
337181 5HN LAK 161	1.0605	1.0605	1.0562	1.0562							
338205 3PARAG 115			1.0533	1.0535			1.0542	1.0548			
338552 HARRISON-S1 69			1.0554	1.0551							
338581 DELUCE1 69	1.0512	1.0513	1.0578	1.0582			1.0518	1.0523			
338583 WARD1 69				1.0510				1.0524			
338585 HEBERSP1 69			1.0545	1.0545							

Single Contingency

Highest Contingency Violation (P.U.)

	2010 S	ummer	2010 \	Vinter	2014 S	ummer	2014 Winter		2018 Summer	
MONITORED ELEMENT	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2	CP-Rev 1	CP-Rev 2
334020 4BRYAN 138	1.0544			1.0599		1.0578				
337010 8WOLFCRK 500	1.0504	1.0504	1.0504	1.0504	1.0504	1.0504	1.0504	1.0504	1.0504	1.0504
337011 6ATTALA 230			1.0573							
337084 DELTA U2 69	1.0589	1.0598			1.0637	1.0640			1.0600	1.0604
337368 8MTOLIV 500	1.0685	1.0686	1.0666	1.0668	1.0697	1.0697	1.0723	1.0725	1.0718	1.0722
337967 3RICUS 115	1.0567	1.0569	1.0608	1.0614	1.0543	1.0547	1.0571	1.0576		1.0520
337969 3STUTT-I 115			1.0549	1.0555				1.0515		
337970 3ULM 11 115			1.0512	1.0519						
337972 3ALMYRA 115				1.0511						
338205 3PARAG 115	1.0589	1.0590			1.0598	1.0603			1.0515	1.0523
338206 3SEDGWK* 115	1.0586	1.0587	1.0649	1.0650	1.0592	1.0598	1.0679	1.0683	1.0502	1.0510
338207 3T.E.#7 115	1.0571	1.0571	1.0633	1.0634	1.0576	1.0582	1.0663	1.0668		
338208 3WALNUT 115	1.0589	1.0589	1.0651	1.0652	1.0595	1.0600	1.0682	1.0686	1.0505	1.0513
338552 HARRISON-S1 69	1.0528	1.0524					1.0543	1.0533		
338570 BLACKROCK1 69			1.0508	1.0523			1.0519	1.0524	1.0675	1.0693
338578 OPPELO 69			1.0535	1.0540				1.0506		
338581 DELUCE1 69					1.0603	1.0607			1.0551	1.0554
338583 WARD1 69						1.0502				
338585 HEBERSP1 69	1.0547	1.0547			1.0546	1.0546	1.0547	1.0547		
338704 3LIGHT # 115	1.0583	1.0583	1.0645	1.0646	1.0589	1.0594	1.0675	1.0680		1.0507
338710 3CRO-RG# 115	1.0584	1.0584	1.0644	1.0646	1.0590	1.0596	1.0676	1.0680	1.0501	1.0509

SINGLE CONTINGENCY THERMAL OVERLOADS FOR LOW-HYDRO CONDITIONS Overloads that are more severe (5%+) or appear only for a low-hydro scenario.

			% RateA
	2010	2014	2018
MONITORED ELEMENT	Summer	Summer	Summer
337705 3CHEETA* 115.00 - 337707 3HS-VIL 115.00 1			100.5%
337921 5MOR-E 161.00 - 337927 5GLEASN 161.00 1	103.6%	118.4%	138.0%
337925 5GREENB 161.00 - 337926 5QUITMN 161.00 1		108.0%	116.1%
337927 5GLEASN 161.00 - 338424 5TYLER 161.00 1		114.1%	133.7%
337928 3CONW-W 115.00 - 337929 3LK CON 115.00 1			113.3%
337928 3CONW-W 115.00 - 338422 5CONW-W 161.00 1			114.6%
337929 3LK CON 115.00 - 337930 3MAYFL 115.00 1		110.8%	120.3%
337930 3MAYFL 115.00 - 337931 3MORGAN 115.00 1			100.2%
337936 3SYLVN 115.00 - 337938 5SYLVN 161.00 1			112.3%
337938 5SYLVN 161.00 - 338748 5GRAVEL# 161.00 1			117.8%
337939 5GOLDCR* 161.00 - 337940 5HAMLET* 161.00 1			101.4%
338100 5BERRYV 161.00 - 338101 5GR FOR 161.00 1			101.9%
338101 5GR FOR 161.00 - 338103 5GRFORS 161.00 1			105.0%
338102 5HARR-W 161.00 - 338103 5GRFORS 161.00 1			112.4%
338102 5HARR-W 161.00 - 338681 5HARR-S 161.00 1		115.5%	143.6%
338104 5HARR-E 161.00 - 338107 5EVRTON 161.00 1			108.9%
338104 5HARR-E 161.00 - 338681 5HARR-S 161.00 1	107.3%	124.1%	154.1%
338108 5ST_JOE 161.00 - 338110 5HILLTOP 161.00 1		102.4%	115.2%
338125 5MT HOM 161.00 - 338814 5SOLAND# 161.00 1			105.3%
338130 5CALCR 161.00 - 338131 5MELBRN 161.00 1	114.8%	113.9%	
338130 5CALCR 161.00 - 505448 NORFORK5 161.00 1	109.9%	112.2%	115.2%
338131 5MELBRN 161.00 - 338132 5SAGE * 161.00 1	115.1%		
338138 5MORFLD 161.00 - 338142 5ISES 1 161.00 1		100.4%	106.5%
338186 5MONETE 161.00 - 338204 5PARAG 161.00 1	101.1%		
338422 5CONW-W 161.00 - 338424 5TYLER 161.00 1		101.1%	113.6%
338814 5SOLAND# 161.00 - 505448 NORFORK5 161.00 1			111.7%

Lowest Contingency Voltage (per							
	2010	2014	2018				
MONITORED BUS	Summer	Summer	Summer				
337939 5GOLDCR* 161.00			0.9139				
337940 5HAMLET* 161.00			0.9132				
337941 5HAMLT 161.00			0.9132				
338100 5BERRYV 161.00	0.9070	0.8470					
338101 5GR FOR 161.00	0.9153	0.8570					
338102 5HARR-W 161.00		0.8843					
338103 5GRFORS 161.00	0.9161	0.8587					
338104 5HARR-E 161.00		0.9036	0.8309				
338105 50MAHA * 161.00			0.8701				
338106 50MAHA 161.00			0.8701				
338107 5EVRTON 161.00		0.9084	0.8420				
338108 5ST_JOE 161.00		0.9159	0.8567				
338109 5MARSHL 161.00			0.8819				
338110 5HILLTOP 161.00			0.8765				
338112 5HEBR-S 161.00		0.7716	0.9131				
338113 5HEBR-I 161.00		0.8022	0.9122				
338120 5LEAD HL 161.00			0.9070				
338121 5SUMMIT 161.00			0.8657				
338122 5FLIPN 161.00			0.8786				
338123 5BULLSH* 161.00			0.8864				
338124 5BULLSH 161.00			0.8864				
338125 5MT HOM 161.00			0.9099				
338161 5WM-EHV 161.00	0.9198						
338410 5WM-DOV 161.00	0.9191		0.9196				
338411 5WM-GAT 161.00	0.9191		0.9198				
338413 5WM-LH2 161.00	0.9195						
338414 5WM-POK 161.00	0.9187		0.9194				
338420 5DONAGHE 161.00		0.9052					
338421 5CONW-S 161.00		0.9060					
338423 5CONIND 161.00		0.9073					
338552 HARRISON-S1 69.000		0.9136	0.8277				
338554 OSAGE-CR1 69.000		0.8646					
338556 OSAGE-CR2 69.000		0.8646					
338585 HEBERSP1 69.000	0.8757	0.8676	0.7818				
338606 MIDWAY-JD1 69.000			0.9196				
338608 MIDWAY-JD2 69.000			0.9196				
338618 CLINTON-W1 69.000			0.9058				
338681 5HARR-S 161.00		0.8908					
338682 5OSAGE # 161.00	0.9037	0.8429					
338758 5HEBR-N# 161.00		0.8459	0.9115				
338813 5MIDWAY# 161.00			0.9196				
338814 5SOLAND# 161.00			0.9143				
338832 5CLIN-W# 161.00			0.9058				
338833 5CLINTON 161.00			0.9163				
338834 5BOTKIN# 161.00			0.8991				

Lowest Contingency Voltage (per unit)

ICT responses to ETEC's comments and questions. (Questions from ETEC are in Red and Answers from ICT are in Blue)

Section 3.2 Completed Projects form the prior 2009 – 2011 Construction Plan

Conway West to Donaghey: Corresponding IDV not included in CP-REV2 and posted model 06/19/2009 (S08_Final_U2) not updated with the project Incorporated in the posted model (update 2).

Waterford 4: Is this project already integrated in the posted EES models, since there was no IDV included in any of the proposed REV1 and REV2? Incorporated in the posted model (update 2).

Liberty to Gloster: Corresponding IDV not included in CP-REV2 and posted model 06/19/2009 (S08_Final_U2) not updated with the project Incorporated in the posted model (update 2).

Section 4.1

4.1.1. System Intact

An analysis of system intact conditions revealed few problems. <u>Melbourne-Sage 161 kV</u> is projected to be overloaded in the winter seasons. Entergy has added a new project to upgrade this element by winter 2010 which would eliminate this condition. Emerging thermal problems are Mossville-Canal La 69 kV, and Zachary REA-Port Hudson 69 kV.

Mount Ida 115 kV voltage is projected to be slightly low in 2010 summer, but Entergy's

addition of a capacitor bank upgrade by 2010 would eliminate this condition. High

voltages are noted on the secondary sides of a few transformers.

Similar overload in the winter season is projected for Melbourne - Calico Rock 161KV also. Is this project meant to alleviate the thermal overload at Melbourne - Calico Rock too?

ICT does not see overload from Melbourne – Calico Rock 161 kV with the SYSTEM INTACT.

4.1.4. Operating Guides

Some of the problems identified in this report may be manageable through the use of manual Operating Guides. A manual Operating Guide is a set of instructions for making system adjustments which operators can manually implement in real-time to manage thermal and voltage problems. Use of Operating Guides as a mitigation plan is permitted under the Planning Criteria. The ICT Planning Department's policy is to use only those Operating Guides that have been documented and made available to the ICT Reliability Coordinator and Planning Department and that have been tested to verify effectiveness. In that case then, there will be TO responsibility to mitigate violations even if there are no projects proposed and therefore no mandatory cost will be allocated to customer for accessing transmission?

Transmission Service is subject to Entergy's tariff provision.

4.1.6. High Voltages

There are a few high voltages associated with contingencies. These appear primarily at transformer secondaries and most are not of concern, particularly during peak periods. Especially high voltages at Mt. Olive 500 kV and <u>Walnut Ridge-Paragould 115 kV</u> should be examined more closely, especially under light-load conditions. High voltage schedule for winter season switched shunts at Jonesboro 161KV and Herbert 161KV, as well as the loads in the area may not be correctly modeled Comment noted and will be passed on to the Modeling Department.

ICT Reliability Assessment 2009

CLECO & LUS: Transmission elements with nominal voltage 69 kV and higher. Should monitor the ties in CLECO and LUS area as well We will take it under advisement. ICT does monitor all ties under the Entergy systems.