



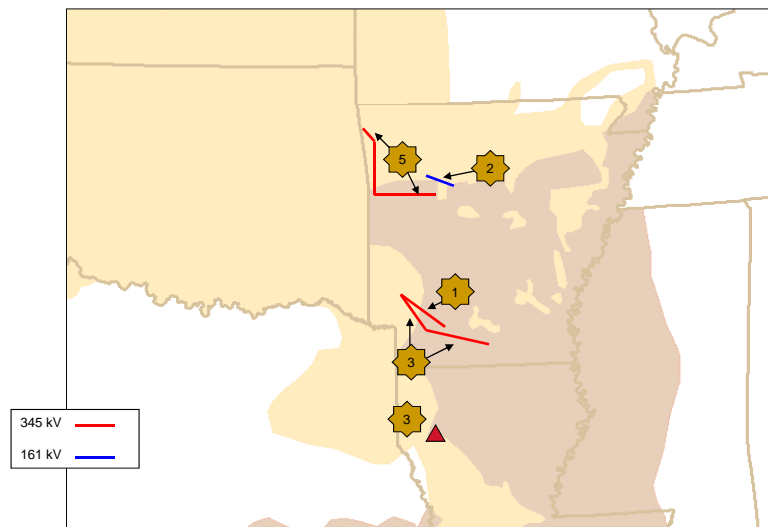
ESRPP 2009 Regional Studies
Initial Results

ESRPP Stakeholder Meeting
August 12, 2009
Astor Crown Plaza
New Orleans, Louisiana

Selected ESRPP Study Projects

- **Turk-McNeil 345 kV**
- **Spadra-Russellville 161 kV**
- **Turk-Fulton-El Dorado 345 kV**
- **Messick 500/230 kV Autotransformer**
- **Flint Creek-Chamber Spr-Fort Smith-ANO 345 kV**

Regional Study Overview Map



General Study Assumptions for Step 1 High-Level Analysis

- **MUST DC analysis of FCITC**
- **Monitored and Contingent Elements**
 - 115 kV and above elements within:
 1. Entergy Zones adjacent to SPP
 2. SPP Areas adjacent to Entergy
 - All elements 345 kV and above in SPP and Entergy
- **N-1 Contingency Scan (no breaker-to-breaker scan)**

General Study Assumptions for Step 1 High-Level Analysis, cont.

- **MDWG MOD Model 2014 Summer Peak**
- **Incorporate Entergy's Construction Plan Projects**
- **Identical Source/Sink Transfer Analyses will be performed for all study projects**
- **FCITC Changes from the Base Case will be identified**
- **Planning-level cost estimates and construction timelines provided**

Source/Sink Areas for Transfer Analysis

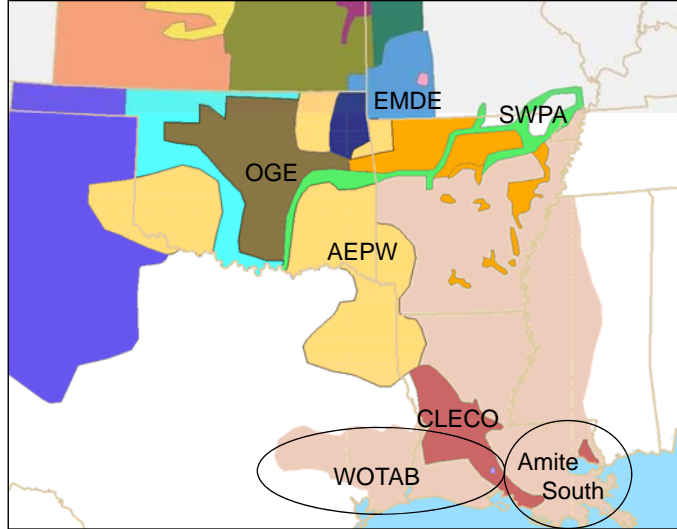
SPP Areas

- SPP (all)
- AEP West
- CLECO
- OG&E
- Empire District
- SWPA

Entergy Areas

- Entergy (all)
- Amite South
- WOTAB

18 Combinations,
bi-directionally =
36 Combinations



Entergy Net Interchange

- **1471 MW Net Export to all areas**
- **1033 MW Net Export to SPP**

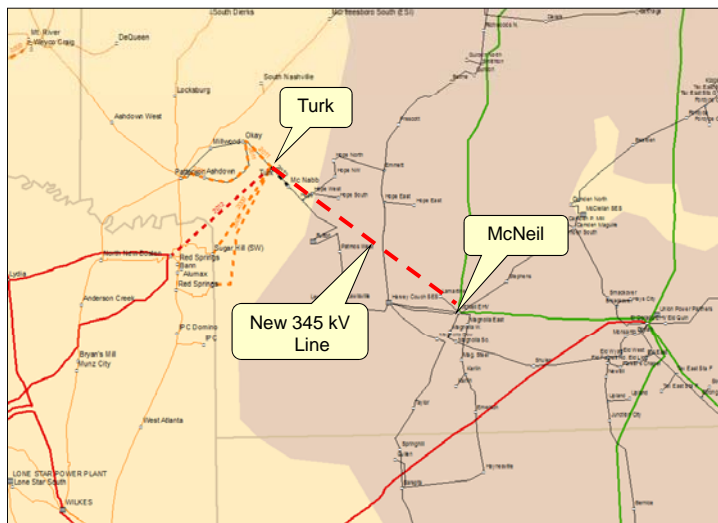
Area	MW
CLECO	596
Lafa	-91
LEPA	53
SWPA	-253
AEPW	-49
OGE	744
EMDE	33

Positive number indicates EXPORT
Negative number indicates IMPORT

FCITC Results: Baseline

		EES ALL		AMITE SOUTH		WOTAB	
		SOURCE	SINK	SOURCE	SINK	SOURCE	SINK
SPP ALL	FCITC	(347)	1767	(1097)	1180	(999)	(1212)
AEPW	FCITC	(2434)	761	(1024)	696	(975)	(1318)
CLECO	FCITC	(768)	(293)	(536)	(344)	(1115)	(418)
EMDE	FCITC	(570)	1041	(1253)	1041	(1000)	(1006)
OGE	FCITC	(676)	625	(1172)	625	(992)	(1070)
SWPA	FCITC	(939)	1204	(1262)	1207	(1001)	(1005)

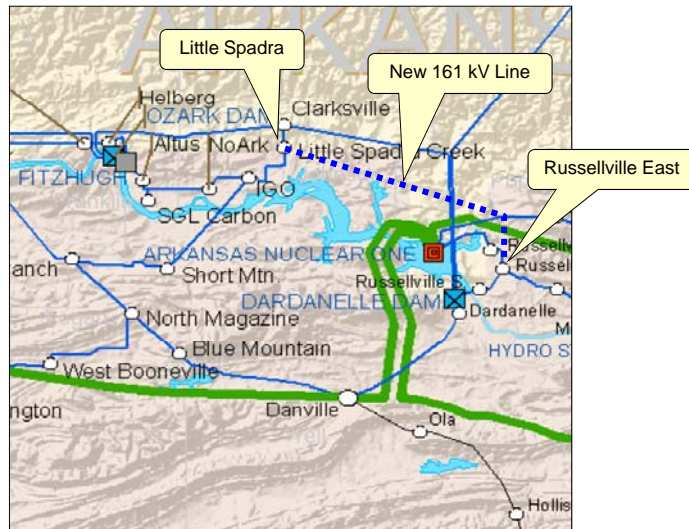
(#1) Turk - McNeil 345 kV



FCITC Results: Turk-McNeil 345 kV

		EES ALL		AMITE SOUTH		WOTAB	
		SOURCE	SINK	SOURCE	SINK	SOURCE	SINK
SPP ALL	FCITC	(241)	1917	(1086)	1226	(996)	(1166)
	Change	105	150	11	46	3	46
AEPW	FCITC	(2545)	810	(1053)	728	(975)	(1245)
	Change	(111)	49	(28)	32	0	73
CLECO	FCITC	(752)	(291)	(523)	(342)	(1110)	(415)
	Change	16	2	13	2	5	2
EMDE	FCITC	(543)	1041	(1234)	1041	(995)	(977)
	Change	27	0	19	0	4	29
OGE	FCITC	(189)	625	(1163)	625	(990)	(1032)
	Change	487	(0)	9	(0)	3	39
SWPA	FCITC	(920)	1204	(1238)	1207	(997)	(980)
	Change	19	(0)	24	(0)	5	25

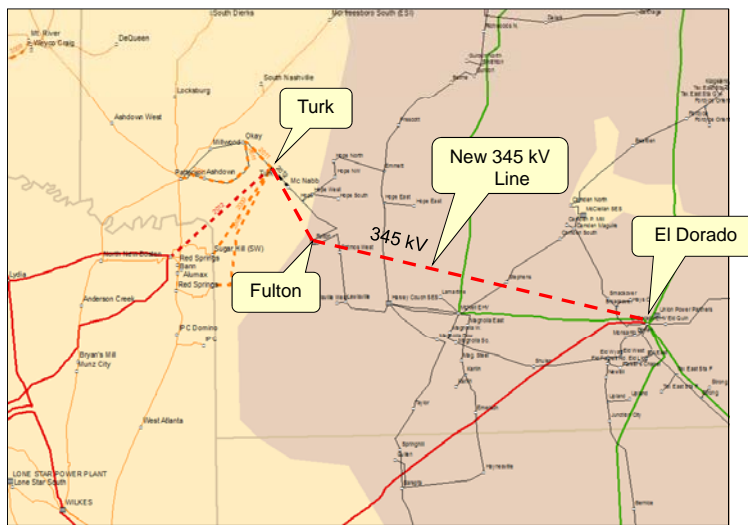
(#2) Spadra - Russellville 161kV Line



FCITC Results: Spadra-Russellville 161 kV

		EES ALL		AMITE SOUTH		WOTAB	
		SOURCE	SINK	SOURCE	SINK	SOURCE	SINK
SPP ALL	FCITC	(802)	1765	(1096)	1177	(999)	(1211)
	Change	(455)	(2)	1	(3)	0	1
AEPW	FCITC	(2433)	759	(1024)	694	(975)	(1317)
	Change	1	(2)	1	(2)	0	1
CLECO	FCITC	(768)	(293)	(535)	(344)	(1115)	(418)
	Change	0	0	0	0	0	0
EMDE	FCITC	(690)	1041	(1253)	1041	(999)	(1006)
	Change	(120)	0	1	0	0	1
OGE	FCITC	(627)	625	(1172)	625	(992)	(1070)
	Change	49	0	0	(0)	0	1
SWPA	FCITC	(961)	1204	(1261)	1207	(1001)	(1004)
	Change	(23)	(0)	1	(0)	0	1

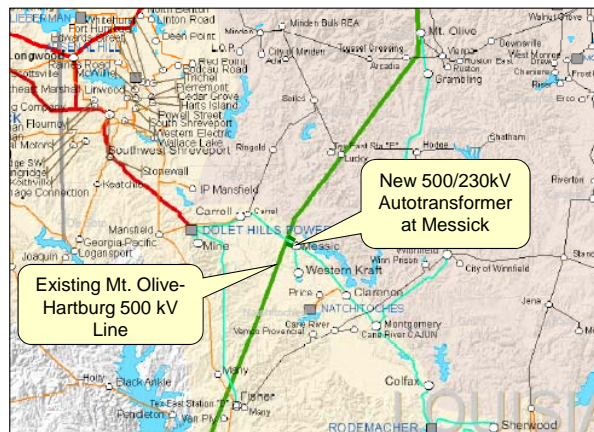
(#3) Turk - Fulton - El Dorado 345 kV



FCITC Results: Turk-Fulton-EI Dorado 345 kV

		EES ALL		AMITE SOUTH		WOTAB	
		SOURCE	SINK	SOURCE	SINK	SOURCE	SINK
SPP ALL	FCITC	(274)	1895	(1089)	1229	(997)	(1178)
	Change	73	128	8	49	2	35
AEPW	FCITC	(2510)	803	(1053)	726	(976)	(1263)
	Change	(77)	41	(28)	30	(0)	54
CLECO	FCITC	(756)	(291)	(526)	(342)	(1111)	(415)
	Change	12	2	9	2	4	3
EMDE	FCITC	(553)	1041	(1240)	1041	(997)	(984)
	Change	17	0	13	0	3	23
OGE	FCITC	(641)	625	(1166)	625	(991)	(1041)
	Change	34	(0)	6	(0)	1	29
SWPA	FCITC	(927)	1204	(1246)	1207	(998)	(985)
	Change	12	0	16	(0)	3	20

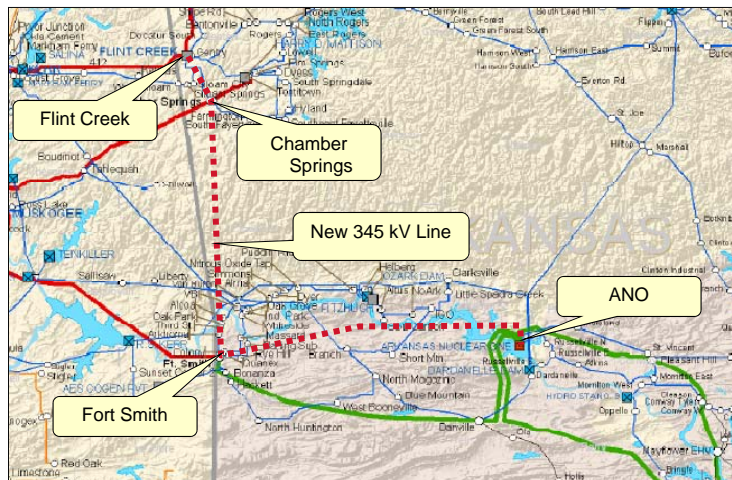
(#3) Messick 500/230kV Autotransformer



FCITC Results: Messick 500/230 kV Auto

		EES ALL		AMITE SOUTH		WOTAB	
		SOURCE	SINK	SOURCE	SINK	SOURCE	SINK
SPP ALL	FCITC	(341)	1809	(1097)	1197	(997)	(1203)
	Change	6	43	0	17	2	9
AEPW	FCITC	(2496)	782	(1029)	711	(972)	(1300)
	Change	(62)	20	(5)	14	4	17
CLECO	FCITC	(783)	(140)	(541)	(164)	(1099)	(197)
	Change	(15)	152	(6)	180	4	221
EMDE	FCITC	(568)	1041	(1246)	1041	(1000)	(1002)
	Change	1	0	7	0	(0)	5
OGE	FCITC	(673)	625	(1169)	625	(992)	(1064)
	Change	3	0	3	(0)	1	6
SWPA	FCITC	(938)	1204	(1253)	1207	(1002)	(1001)
	Change	1	0	9	0	(1)	4

(#5) Flint Creek - Chamber Springs - Fort Smith - ANO 345kV Line



FCITC Results: Flint Creek-Chamber Spr- Ft Smith-ANO 345 kV

		EES ALL		AMITE SOUTH		WOTAB	
		SOURCE	SINK	SOURCE	SINK	SOURCE	SINK
SPP ALL	FCITC	132	1741	(1101)	1151	(998)	(1220)
	Change	479	(26)	(4)	(29)	1	(8)
AEPW	FCITC	(2441)	739	(1029)	675	(975)	(1326)
	Change	(7)	(23)	(4)	(22)	1	(8)
CLECO	FCITC	(772)	(296)	(538)	(348)	(1114)	(422)
	Change	(4)	(3)	(3)	(4)	1	(4)
EMDE	FCITC	(400)	1041	(1256)	1041	(999)	(1014)
	Change	170	0	(3)	0	1	(7)
OGE	FCITC	115	625	(1178)	625	(992)	(1077)
	Change	791	0	(5)	0	1	(7)
SWPA	FCITC	(853)	1204	(1267)	1206	(1000)	(1011)
	Change	86	(1)	(5)	(1)	1	(6)

Next Steps

- **Continue Transfer Analysis**
- **Next Meeting: Draft Report, Stakeholder Input**
- **Post Final Report**
- **First Meeting of Next Cycle:**
 - **Select Step 2 Studies**
 - **Select Step 1 Studies**