Part II: Alternate Route Evaluation

2.1 Categories & Weights

Statistics were collected for each alternate route segment and route. These statistics are divided into three categories similar to the Alternate Corridor perspectives: Built, Natural, and Engineering. The statistics were then normalized and weights were assigned to each element. The weights were provided by the Georgia Power routing team. Table 1 below lists the criteria and weights for each perspective with respect to the alternate route evaluation calculations. In the event that no instances of a particular statistical feature were found near the alternate route segments, the weight assigned to those features were evenly redistributed among the other features of the category, and have been shaded in gray in the table.

Built Built Built Built	
Feature	Weight
Residences within ROW	45.0%
Proximity to Residences (300' from ROW)	20.0%
Proposed Developments	0.0%
Proximity to Commercial Buildings (300' from ROW)	3.0%
Proximity to Industrial Buildings (300' from ROW)	2.0%
School, DayCare, Church, Cemetery, Park Parcels (#)	15.0%
Proximity to Historic Structures/Districts (1500' from	
ROW)	15.0%
Total:	100.0%
Natural	
Natural Forests (Acres)	5.0%
Stream/River Crossings	30.0%
Wetland Areas (Acres)	60.0%
Floodplain Areas (Acres)	5.0%
Total:	100.0%
Engineering	
Percent Rebuild with Existing T/L*	0.0%
Percent Co-location with Existing T/L*	30.0%
Number of Parcels	30.0%
Total Project Costs	40.0%
Total:	100.0%

Table 1 - Categories & Weights



2.2 Raw Statistics and Normalized Statistics

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Table 2 shows the raw and normalized statistics for each route. The statistics were normalized to provide a method of comparison between each of the categories. All normalized values have a range from 0 to 1. The lower scores represent higher relative suitability. The normalized values of certain criteria were inverted in situations where a higher value is more desirable. An example of this would be co-location with existing transmission lines.

ALVERSA CONTRACTOR STOTA

Thomson - Vogtle 500 EV Transmission Line: Siting Study Addendum

Table 2 - Raw Statistics & Normalized Statistics

Samania	Member 01	Member 02	Member 03	Member 04	Member 95	Member 66	Member 09	Mamber (19	Member 10
Bulk	11-14	11-th	11-14	Hall	11-10	Halt	link	Unit	11-14
Feature Residences within ROW	0	Unπ 16	0	0 0	2	2	0	0	2
Normalized Proximity to Residences (300' from ROW)	0 00	0.64	0 00	20	0.08	0.08	0 00	9000	0 08 36
Normalized	0.07	0.64	0.09	0 09	0.22	0 22	0.07	0.00	0 23
Normalized			Soleting of the						
Proximity to Commercial Buildings (300' from ROW)	1	5	1	1	2	2	1	1	2
Normalized	0.00	1.00	0 00	0.00	0.25	0.25	0.00	0.00	0.25
ROW)	1	10	1	1	1	1	1	1	2
School DayCare, Church, Cemetery, Park	0.09	0.91	0.09	0.09	0.08	U UB	0.09	0.09	010
Parcels (#)	000	000	000	000	0 00	000	000	0	0 00
Proximity to Historic Structures Districts	0	4	0	0	0	0	0	0	0
Normalized	0.00	0.33	0.00	9.00	0.00	0.00	0.00	0.00	0.00
Natural Natural Forests (Acres)	447 94	463 16	441 17	443 57	390 39	390.21	447 76	527 03	405 48
Normalized	0.42	0.53	0.37	0.39	0 00	0.00	0.42	1.00	0 11
Normalized	1 00	0.00	0.78	0.44	0.56	0.56	1.00	0.83	0.44
Wetland Areas (Acres)	82 41	60.32	76.48	88.32	72 53	0.13	82 43 0 25	0.61	0 12
Floodplain Areas (Acres)	23.6	26.8	23.8	37 5	28.6	28.6	238	739	28.6
Engineering	0.03	007	0.03	020	0.09	003	0.03	0.00	0.09
Length (Miles) Normalized	53 64	56.80	54.60	54.95	52 41	52 58	53 60	54 67	53 11
Percent Rebuild with Existing T/L*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Inverted									
Percent Co-location with Existing T/L*	0.04	0.37	0.00	0.04	0.08	0.09	0.05	0.08	0.08
Inverted	1.00	0.46	1.00	1.00	0.94	0.93	0.99	0 94	0.94
Normalized	0.05	0.61	0.06	0.02	0.14	0 13	0.04	0.00	0.06
Inverted Number of Parcels	135.00	211.00	136.00	131.00	147 00	146.00	134.00	128.00	136.00
Normalized	0.05	0.61	0.06	0.02	0 14	0.13	0.04	0.00	0.05
Normalized	017	0.54	0.24	0.28	0 00	0 00	0 18	0.26	0.06
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Segments Bullt	Member 1;	Colecate 01	Colocaty 62	Committee 011319	Commines 612838	Petential 01	Perspital 62	Petentia] 63	Committee(12)930
Segments Built Residences within ROW	Momber 1: Unit	Colocate 01 Unit 25	Colocaty 6: Unit 20	Comminee 013319 Unit	Convertner 612870 Unit	Perential 01 Unit	Potential 62 Unit	Perential 63 Unit	Commitmee(21010 Unit 3
Segmente Built Feature Residences within ROW Normalized	Vember 1; Unit 1 0.04	Celerate 01 Unit 25 1.00	Colocaty 5: Unit 20 0.80	Comminee 611310	Comminer 612630 Unit 1 0.04	Perpatial 6) Unit 1 0 04	Pownilal 63 Unit 3 0.12	Perential 63 Unit 0 000	Complete(\$1919 Unit 3 0.12
Segments Bulk Feature Residences within ROW Normalized Proximity to Residences (300 from ROW) Normalized	Veeber 1: Unit 0.04 28 0.16	Celecate 01 Unk 25 1.00 127 1.00	Colecate 62 Unit 20 0.60 103 0.60	Countinee 011310 Unit 0.04 25 0.14	Concentrar 612818 Unit 0.04 25 0.14	Petyndia) 61 Unit 0.04 26 0.14	Pountial 62 Unk 3 0.12 33 0.20	Petestial 63 Unit 0 0.00 20 0.09	Commitmee(21919 Unit 3 0.12 33 0.20
Eegmente Buik Festure Residences within ROW Normalited Proximity to Residences (300 from ROW) Normalited Proposed Developments Homeniced	Nember 1; Unit 1 0.04 28 0.16	Colecate 01 Unit 25 1.00 127 1.00	Colecenty 52 Unit 20 0.80 103 0.60	Comminer 011310 Unit 1 0 04 25 0 14	Creasiner 612818 Unit 1 0.04 25 0.14	Perpettal 61 1 0 04 26 0 14	Poventia) 45 Unit 3 0, 12 33 0, 20	Perendia) 63 Unit 0 0 00 20 0 09	Complete(51919 Unit 3 0.12 33 0.20
Eegments EUM Festure Residences within ROW Normalized Propriet Propriet Propriet Normalized Propriet Propriet Propriet Normalized Propriet Normalized	Vember 1; Unit 1 0.04 28 0.16	Celecate 01 Unit 25 1.00 127 1.00	Colecaty 52 Unit 20 0.80 103 0.60	Commines 633310 Unit 1 0.04 25 0.14	Conversion of 612818 Unit 1 0.04 25 0.14	Perpetaj 6j Unit 1 0 0 d 26 0 1 d	Pressilal 45 Unit 3 0.12 33 0.20	Perential 63 Unit 0 0 00 20 0 09	C some inter(\$21919 Unit 3 0.12 33 0.20
Eegments BUM Festure Residences within ROW Normalized Proxinity to Residences (300' from ROW) Normalized Proposed Developments Normalized Proxinity to Commercial Buildings (300' from ROW) Normalized	Vember I; Unit 1 0.04 28 0.16 1 0.00	Colocate 01 Unit 25 1.00 127 1.00 4 0.75	Colocott 62 Unit 20 0.60 103 0.60 4 0.75	Committee 633339 Unit 0 04 25 0 14 1 0 00	Converting (120)0 Unit 1 0 Dat 25 0 14 1 0 00	Persystel 61 Unit 0 04 20 0 14 1 0 00	Potential 63 Unit 3 0.12 33 0.20 1 0.00	Perential 63 Unit 0 0.00 20 0.09 1 1 0.00	Csombiner051010 Unit 3 0.12 33 0.20 1 0.00
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Segments BBW Festure Residences within ROW Normalized Proximity to Residences (300 from ROW) Normalized Proximity to Commercial Buildings (300' from ROW) Normalized Proximity to Industrial Buildings (300' from ROW) Prominized Proximity to Industrial Buildings (300' from ROW) Proximity to Industrial Buildings (30' from ROW) Proximity to ROW Proximity to ROW Proxi	Verober 1: Unit 1 0.04 28 0.16 1 0.00 10 0.91	Colorest 01 Unit 25 1.00 127 1.00 4 0.75 0 0.00	Celecotr 62 Unit 20 0.60 103 0.60 4 0.75 11 1.00	Committee 613319 Unit 1 0.04 25 0.14 1 0.00 1 0.00	Creenings (121)0 Unit 1 0.04 25 0.14 1 0.00 1 0.00	Perrystela 61 Unit 1 0 04 26 0 14 1 0 00 2 0 00 2 0 16	Potential 63 Unit 3 0, 12 33 0, 20 1 0, 00 2 0, 16	Perential 63 Unit 0 0 000 20 0 09 1 1 0 00 2 0 10	Committeer021010 Unit 3 0 12 33 0 20 1 0 00 10 0 91
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Georgia Power Company

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Thomson - Vogtle 500 kV Transmission Line: Siting Study Addendum

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The Total Project Costs calculations were determined by the sum of high angle structure costs, construction costs, generalized land acquisition costs, and stream crossing clearing costs. High angle construction costs refer to structures needed to place a 30-degree bend (or higher) in the transmission line. An assumed number was built into the construction cost, and when compared to the actual number, may have resulted in a negative value. Generalized land acquisition costs were calculated by data obtained from the tax assessors from Burke, Jefferson, McDuffie, and Warren counties. Construction costs were calculated on a per mile basis for each route using a multiplier provided by GPC. "Swapping" costs refers to a method of crossing existing 500 kV transmissions lines within the study area. Swapping costs were considered within the "Construction Cost" element. Stream crossings were determined per route, and the sum was multiplied by a figure also provided by GPC. The Total Project Cost values are approximate, and are not meant to define the exact cost of a route. For example, angles can be adjusted, and property owners will negotiate individual sales. The generalized values were incorporated to the analysis to provide a relative estimate of the costs of construction and easement acquisition on each route. Tables 3 below details the components of the total project cost per route. Table 4 below (Page 44) details the total project cost per route.

Table 3 - Tot	al Project	Cost (Components
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Item	Cost
High (>30°) Angle Structure Costs	\$325,000 Per each Additional Structure
Construction Cost	\$2,000,000 Per Mile (Plus \$2,000,000 Per Swap Where Appropriate)
Generalized Land Acquisition Cost	From Tax Assessor of Appropriate County
Stream Crossing Clearing Cost	\$3,200 Per Stream Crossing
Total P	roject Cost

Table 4 - Cost Per Route

Route	Member 01	Member 02	Member 03	Member 04	Member 05
High (>30°) Angle Deflections	9.0	17.0	9.0	10.0	8.0
High (>30°) Angle Structure Costs	-\$3,575,000.00	-\$975,000.00	-\$3,575,000.00	-\$3,250,000.00	-\$3,900,000.00
Construction Cost	\$109,270,000.00	\$115,592,000.00	\$111,194,000.00	\$111,904,000.00	\$104,828,000.00
Generalized Land Acquisition Cost	\$1,921,709.39	\$3,196,961.62	\$1,953,653.41	\$1,967,665.12	\$2,188,833.21
Stream Crossing Clearing Cost	\$265,600.00	\$208,000.00	\$252,800.00	\$233,600.00	\$240,000.00
Total Project Cost	\$107,882,309.39	\$118,021,961.62	\$109,825,453.41	\$110,855,265.12	\$103,356,833.21

Route	Member 06	Member 08	Member 09	Member 10	Member 12
High (>30°) Angle Deflections	7.0	9.0	11.0	9.0	12.0
High (>30°) Angle Structure Costs	-\$4,225,000.00	-\$3,575,000.00	-\$2,925,000.00	-\$3,575,000.00	-\$2,600,000.00
Construction Cost	\$105,164,000.00	\$109,606,000.00	\$111,338,000.00	\$106,214,000.00	\$110,850,000.00
Generalized Land Acquisition Cost	\$2,191,233.63	\$1,924,109.81	\$1,845,740.10	\$2,214,931.24	\$1,936,685.56
Stream Crossing Clearing Cost	\$240,000.00	\$265,600.00	\$256,000.00	\$233,600.00	\$259,200.00
Total Project Cost	\$103,370,233.63	\$108,220,709.81	\$110,514,740.10	\$105,087,531.24	\$110,445,885.56

Route	Colocate 01	Colocate 02	Committee 011310	Committee 012810	Committee 021010
High (>30°) Angle Deflections	20.0	18.0	10.0	15.0	17.0
High (>30°) Angle Structure Costs	\$0.00	-\$650,000.00	-\$3,250,000.00	-\$1,625,000.00	-\$975,000.00
Construction Cost	\$126,932,000.00	\$120,372,000.00	\$109,238,000.00	\$110,430,000.00	\$110,466,000.00
Generalized Land Acquisition Cost	\$3,348,823.08	\$2,800,552.13	\$1,903,269.63	\$2,540,864.04	\$2,597,882.91
Stream Crossing Clearing Cost	\$233,600.00	\$220,800.00	\$249,600.00	\$217,600.00	\$220,800.00
Total Project Cost	\$130,514,423.08	\$122,743,352.13	\$108,140,869.63	\$111,563,464.04	\$112,309,682.91

Route	Potential 01	Potential 02	Potential 03
High (>30°) Angle Deflections	15.0	16.0	14.0
High (>30°) Angle Structure Costs	-\$1,625,000.00	-\$1,300,000.00	-\$1,950,000.00
Construction Cost	\$110,778,000.00	\$109,646,000.00	\$111,683,600.00
Generalized Land Acquisition Cost	\$2,609,759.01	\$2,597,882.91	\$2,636,497.42
Stream Crossing Clearing Cost	\$214,400.00	\$220,800.00	\$224,000.00
Total Project Cost	\$111,977,159.01	\$111,164,682.91	\$112,594,097.42



Tables 5 - 8 illustrate the Alternative Route Evaluation Models with emphasis on the Built, Engineering, Natural and Simple Average environments, respectively. The tables show each environment and their weighted values. Normalized Values for all features are shown in blue. If no features of a particular criterion were present, the row has been highlighted in gray. The weights assigned to these criteria were evenly redistributed among the other criteria within each environment (Built, Natural, or Environmental). As previously mentioned, if there are no occurrences of any one particular feature, the rows show gray color. The Built, Natural, and Engineering models emphasize their namesake category by 5 times (72%) when compared to the other categories (14%). The Simple Average Model places equal emphasis (33.3%) on each category.



	123	ALC: NOT THE	Concession Res	La contraction		1000		and the second	AND A DESCRIPTION	in the set	Long Street	and the second					1000	1.	
Route		Member 61	Member 02	Member 63	Member 64	Member 05	Member #6	Member 68	Member 09	Manber 18	Member 12	Celocare (1	Colocate (12	Committee 011310	Committee 012810	Potential (1)	Potential (2	Potential 03	Committee 021010
Feature		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
Residences within ROW	45.2%	3.00	0.64	00.0	0 00	83.0	50 C	0.00	0.00	0.09	0.24	1 00	05.0	0.04	0.04	204	0 12	3.00	312
Veightea		00 C	0.29	00.0	0.00	0.04	004	03.0	0.00	0.04	0.32	0.45	0.36	0.32	0.02	3 02	30.0	0.00	0.05
Presimity to Residences (300' from ROW)	20.0%	0 07	0.84	0.09	0.09	0.22	3.22	0.07	30.0	0.23	D.1E	1 00	0.80	2.14	014	2.4	02.0	0.00	320
Velghied		0.01	0.13	0.32	0.02	0.04	3.04	0.01	0.00	0.05	0.03	0.20	0.16	0.05	0.03	202	0.04	0.02	0.04
Proposed Developments	0.0%	Sec. Sec.			12.2	Real Parts	1999 S. S.	CLASS OF	Contraction of	A LO DE LA	Called Ser								
Veichnes						1200							The state	1000	1			Rest of the	
Proventiv to Commercial Buildings (300' from			1			1		1	1		1		Contraction of the	1	10 CV 1078 149 CV	Sector Sector Control		Contraction of the second	-
(000)	3.0%	3 30	. 03	00.0	0.03	0.2E	3.25	03.0	3.00	0.25	0.50	0.75	2.75	300	010	201	070	300	200
Veichtea		000	0.03	00.0	0.00	100	201	010	0.00	0.01	00.5	0.02	0.02	0.00	010	300	00.0	0.00	70.0
Troomity to Industria: Buildings (300' from							-			0,01				0.00	0.00		6.66	0.00	0.00
DMI)	2.0%	0.09	0.91	0.00	0.09	910	2 60	010	0.00	D - R	0.01	0.00	653	1 10	616	5.45	D IR	0.45	2.51
Neichten (0.00	20.0	00.0	0.00	00.0	300	63.0	30.0	0.0	0.02	0.00	7110	0.00	0,00	0.00	0,10	0.00	0.00
School DayCare Church Cemetery Park			+		7	0.00	000	0.60	0.02	9.00	0.02	0.00	4,65	0.00	8,60	0.64	0.00	0.00	JUL
Parcels (#)	15.0%	3.00	0.00	00.3	0.00	61.1	300	010	2.00	0.05	0.00	1 80	100	0.02	0.00	3.35	0.00	1.00	0.00
(leichten)	J.0 1	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	2.00	I VJ	5.00	0.01	0.00	3.00	0.00	0.02	J J JL
munder to History Structures Devers (153)		0.00	0.00	2.00	0.00	1.10	7 0 00	0.00	0.00	9.00	0.00	6.9	0,10	1.00	0.00	3.00	0,00	0.00	0.00
on POUS	15 90	9.95	0.32	0.00	0.00	0.00	0.02	2.20											[
(alalian	0.0 0	3.35	0.50	2.00	0.00	5.00	300	9.00	0.06	9,00	0.55	100	0.33	3.36	0.00	300	0.33	0.00	335
(TA)	<00 0k	0.00	0.00	0.00	0.00	0,00	0.00	0.00	00,6	0.00	0.05	015	0.05	0.30	0.00	0.00	0,05	3.00	0.05
VEIGHTED TOTAL	103.07	3.32	0.51	3.32	0.02	0.09	9.09	0.02	9.30	0.09	0.12	0.97	0,76	9.05	0.05	2.05	0,15	0.02	0.16
YEIGH IEU IOIAL		4.01	0.31	Contraction of the	UUI	0.00	305	201	0.00	0.07	0.09	070	0.66	2,03	0.03	204	0.11	0.02	0.12
num Farmer (Jame)	Z Bay	D./D	0.75	2.57	2.90	1.10		2.12						100 A. 40				The second	
ALUIR FORESS (ACRES,	2.6%	342	0.55	0.31	0 39	0.00	200	0.42	1.00	0.11	0.36	0 55	0.84	0.32	0.25	0 34	0.26	0 35	216
reignea		0.02	0.05	0.02	0.02	0,00	0.00	9.02	0.05	0.01	0.02	0.03	0,04	9.02	0.01	0 02	0.01	3 02	3 01
Aream/Kiver Crossings	39.9%	1 30	0.03	0,78	0.42	0.56	0.56	02.*	0.53	0.44	0.59	0.42	0.22	0.72	0.17	211	0.22	0.28	322
veignies		0.30	0.00	0.23	013	0,17	0.17	0,30	0,25	0.13	0.27	013	0.07	0.22	0.05	0.03	0.07	3 06	3 97
Vetand Areas (Acres;	60.0%	3 25	0.00	C.18	031	0.14	213	0.25	3.31	0.12	122	0.57	1.00	2.14	0.01	217	0.17	3 22	0.03
Peighted	1	0.15	0.00	0.11	019	83.0	50 0	0.15	0,36	0.07	0,13	034	0.60	30.08	0.01	0.10	0.10	0.13	0 02
(codplain Areas (Acres)	5.0%	0.03	0.07	E.03	0.20	93.0	909	81.0	0.56	0.09	0.02	1 00	0.99	0.02	0.00	20 C	0.00	2 01	0 0 C
Veightes		0.00	0.00	00.00	0.01	0.00	000	03.0	0.03	0.00	0,00	0 05	0.05	0.00	0,00	000	00.0	0.00	0.00
CTAL	100.0%	0,47	0.03	0.36	0.35	0.25	0.25	0.47	0,70	322	0.41	0,56	0.75	0.32	0.07	0.15	0.18	0.23	2.29
VEIGHTED TOTAL		0.07	000	0.05	0.05	0.04	0.03	0.07	0.10	0.03	0.06	0.08	0.11	0.04	0.01	0.02	0.03	0.03	9 01
rgineering	14,0%																		
Percent Rebuild with Existing Trut	0,0%									an a	Constant Service								
Veighten		State State						Sec. 2						1444.5.61	Red State			1.2.14	20.00
ercent Co-location with Existing Truth	30.0%	1 30	0.45	1,00	. 03	0.94	3 93	0.99	0.94	0.94	0.97	000	83,0	0.B4	0.34	385	0.75	1.00	58 C
Veighted		3 30	0.14	0.30	0 30	0.28	3.28	0.30	0.28	0.28	0.20	0.00	0.03	0.25	0.25	3.25	0.23	0.30	3 20
under of Parceis	30.0%	0.05	0.61	0.0E	002	0.14	213	0.04	0.00	0.05	0,04	1 00	0.56	2.05	0.10	013	0.18	313	2 16
leighted		0 02	0.13	0.02	001	0.04	204	0.01	0.00	0.02	0.01	0.50	0.19	0.32	203	204	0.05	0.04	2.05
otal Project Costs	40.0%	317	0.54	0.24	0.29	00.0	300	D.18	2.28	0.05	0.26	1 00	07	3 18	0.20	342	0.00	121	3.92
leighted		2 07	0.22	0.10	0.1	0.00	200	0.07	211	0.03	0.10	040	0.29	0.07	0.12	819	010	5.54	3 55
OTAL	100.0%	0.38	0.54	041	0.47	037	0.32	0.38	3 50	037	0.97	0.70	DZ:	2.01	0.12	8.42	0.12	0.10	100
EIGHTED TOTAL		2 05	0.08	0.0E	0.05	0.04	204	0.05	0.05	0.05	104	0.10	0.07	3.05	0.40	0.02	0.40	0.40	0.00
UN OF WEIGHTED TOTALS		213	0.45	6.12	0.12	E 14	2:4	013	3.15	0.00	7.10	0.88	7.79	00,00	0.10	040	010	0.45	50.0
ANK		ß	16	5	1	4*		7	12	£	41	1000	47	0.12	0.30	9 2	0.19	312	110
		· · · · · · · · · · · · · · · · · · ·	and the second	and the second se		and the second se	A CONTRACTOR OF	And the second se	and the second	and the second	and the second se	And a second	and the second		and the second se		And the second		

Emphasis on Built Environment Table 5 - Emphasis on Built Environment

2.3

' Invenec for calculations

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		-	Contraction of the last	Contento esta ana	-	Printer in	1 COLORING	-	State Subject Subject		Proto Louis or a	and service and		-	the rate of the second second	a da andrigan analysis	and the same of	Concernance of the local data	Constanting of the local division of
Sure Contraction of the Sure o	143	Contraction of the			Profession of the	Constanting of the	A STATE OF		Polyage				1						Camalina
loute		Member (11	Member IC	Member 63	Member 04	Member (5	Member %	Member 08	Member (9	Member 10	Member 12	Colectic (1)	Colocate (2	C. MEMLITER 011310	Committee WL2S10	Potential 01	Potential (C	Potential 03	Committee 021010
Feature		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
Residences within ROW	45.0%	20 C	264	00 0	0.00	61.0	9.05	0.00	000	0.08	624	1.00	33.6	0.04	0.04	2.02	012	0.50	0.12
Neighted		000	0.29	000	0.00	0.04	0,04	20.0	0.00	0.04	0.02	0.45	0.35	0.02	0 02	0 02	0.05	0.00	0.05
Proximity to Residences (300' from ROW)	20.0%	007	264	2:09	0.09	0.22	0.22	0.07	30.0	3 23	0.16	1.20	38.0	0.14	0 14	212	0.20	0.09	0.20
Weighted		201	0.13	0.02	0.02	0.04	0.04	0.01	000	0.05	0.03	0.20	0,15	0.03	0 03	0 03	004	0.02	0.04
Proposed Developments	0.0%			Rune Sta	1 NOTES	1.1.1.1.1.1.1	1000	103 12	alties (pro		10.000	CE TON	Real of	E. Start				Alle and	NO COLOR
Weighted		1945.19					See. St		APRIL MA		Page 1			1					
Proximity to Commercial Buildings (301" from ROW	3.0%	200	· 00	000	0.00	0.25	0.25	20.0	200	125	010	0.75	0.75	0.00	20 C	0.00	0:0	0.00	0.00
Welphred	10-10-1	000	0.03	0.00	0.00	10.0	0.0	0.00	000	101	03.0	0.02	0.02	0.00	000	00 0	000	0.00	0.00
Proximity to Industrial Buildings (302) from RC9//	2.0%	2 09	0.91	0.09	0.29	0.09	0.09	90.0	000	5-3	0.91	010	100	0.09	2 02	5.18	518	6-9	0.91
Weiphted		080	002	0.00	0:00	0.00	0.00	0.00	200	00 0	0.02	0.00	0.02	0.00	0.00	0 00	0.00	0.00	0.02
School DavCare, Church, Cemetery, Park Parcels (*	15.0%	200	000	0.00	020	0.00	0.05	0.00	2.00	0.00	010	1.00	1.00	0.00	200	000	0:00	0.00	0.00
Weinbred		202	2 00	000	010	0.00	0.00	000	000	00.0	00.0	0.15	0.15	3.82	0.00	0.00	0.00	0.00	0.00
Provinty to History Structures, Districts (* 520) from	150%	26.0	5.35	00.3	62.0	616	0.00	000	000	00 0	0.38	1.50	0.33	20.0	200	00.1	1.32	0:0	0.33
Weinhen		0.00	0.05	0.00	010	0.00	0.00	0.00	0.00	0.00	0.05	2.0	20.0	0.00	0.00	0.00	D.D.E	0.00	0.05
TOTA	100 05	0.02	0.56	0.00	0.02	0.00	90.0	0.02	100	0.00	010	0.07	0.75	0.05	0.05	0.05	her	0.00	0.00
AFIGHTED TOTAL	100,0 4	0.00	0.07	000	0.02	0.00	0.00	0.00	0.00	0.01	0.02	0.4	0.10	0.00	0.00	0.01	0.02	0.02	0.02
and the second	12.02	Personal State					C.C.							4.0				4.00	Live
Varural Forests (Acres)	5.0%	242	0.53	0.37	0.39	020	0.00	0.17	100	11	0.35	0.52	186	0.32	3.75	2.82	5.26	0.35	616
Weinhred		0.02	0.03	0.02	0.02	0.00	0.00	0.02	0.05	16.0	0.00	610	100	0.02	0.01	0.02	0.01	0.02	0.0
Steam Ster Circsings	10.0%	101	00.1	178	0.44	0.52	0.55	10.	0.83	14	CRO	0.42	0.22	0.77	217	1-1	1 22	0.28	0.07
Weinhend	00,01	0.30	00.0	0.23	0.0	0.17	0.00	0.00	0.25	0.13	0.27	0.19	0.07	0.72	2.05	202	0.07	0.20	0.07
Remand States (Scree)	20.04	3.25	00 0	0.18	0.85	0.0	0.13	0.35	181	5.0	0.23	0.57	100	014	205	1.17	5.47	0.20	50.0
Weinheat'	JU.0 .1	315	000	0.48	0.10	816	8.00	015	0.00	0.87	0.42	034	0.60	80.6	301	0.10	0:10	0.12	0.00
Fonsion Arms (anne)	TON	202	107	1.93	0.78	0.00	0.00	0.10	5.00	1.80	6.55	1.58	0.00	0.02	10.0	00 *	0.00	0.0	0.02
Walmhan'	w.U.	0.00	00.1	5.00	0.20	0.03	3.00	3.00	000	1.00	610	216	33.0	30.0	0.00	000	0.00	0.00	0.00
TOTA	100.00	0.47	0.00	325	10.0	0.00	0.00	0.00	0.70	3.92	0.40	P.ZE	0.00	0.90	0.00	0.00	010	0.00	0.00
AEIONTED TOTAL	100,0 1	0.47	0.00	0.00	1.05	223	0.03	8.17	3,14	0.62	0.32	0.00	0.10	0.02	0.07	0.10	0.10	0.00	0.05
Contraction	77.64		2.14		- 42		0.4.0	V.v.)	W14	0.00	4.40	0.00	No. 1 P	E.c.	Q.C .	0.00	0.00		401
Demont Robuild with Evision T2 *	0.65												Marine in	Contraction of the		Distant Providence		TRUCK ST	
Mainhand	0.0	0.000503						-					1000				are services		The second
Corrent Chinestinn with Evisions Till	30.0%	10.1	7.16	1.00	1.50	0.24	0.03	000	5.04	D.P/	74.5	616	070	0.84	284	28.1	175	1 100	6.83
Visionant	00.0 1	12 20	114	1.90	0.90	8.58	0.28	0.00	0.04	0.28	0.20	616	8.00	0.04	1.25	0.00	0.72	0.00	0.00
lumber of Damais	20.0%	3.05	121	1.02	0.00	014	0.13	5.54	2.00	2.82	6.20	1.20	130	30.6	0.20	0.10	0.40	0.00	0.20
Keinhan	20.0 1	0.00	5 10	0.00	0.02	0,14	0.15	0,04	0.00	0.00	0.01	0.20	02.0	0,00	0.02	t o	0 1	0.0	0.0
Teres Devent Comment	10.05	1 3.17	7 5.27	1 1 1/2	0.01	0.04	0.04	0,0	* 5.50	7 7.89	0.01	0.00	9,19	0.02	000	- 10-	V UG	0.04	0.00
Ja Tust vass	40.0%	0.07	0.00	0.24	0.40	0.0	0.00	9,10	0.14	000	0.0	0.45	8.00	0.15	0.00	6 3 <u>2</u>	- 25	0.54	0.00
nelunacu	100.00	0.04	022	Disc	0.1	0,10	0.00	0,07	0.55	0.95	0.10	0.40	020	10.07	212	0.15	0.12	0,14	0.00
ACIONTED TOTAL	100.0%	0.00	0.04	141	0.42	0.52	9.52	9.35	0.39	0.52	0.32	0,10	9.5	0.34	040	0.42	0.40	0.45	0.30
NEIGHTED TOTALS		020	0.00	0.00	0.30	0.23	0.20	0.27	0.20	62.9	0.45	0.00	0.31	0.24	028	96.0	0.20	0.34	0.20
		- 1	- 40		13	9.20	0.20	9,54	4.30	020	1.00	9.12	9.50	9.50	101 E	0	000	0,50	2001
											-								And the second se

2.4 **Emphasis on Engineering Environment**

Table 6 - Emphasis on Engineering Environment

					1	-	-	-		and the second s	and the second second		- Contraction of the	Current Mar	C'mm Harr	-		Contraction of the second	Came
Drade		Hombse in	Member	Manhar 62	Unaberfit	Insher of	Itember M	Manhan	Man ha h	Member 14	Member #1	Calasses	Calman 63	Committe	COMUNICE MAN	Burnhal In	Dependent Al	Tenential da	C OBDISA
Feature		Linit	linit	Init	linit	(Init	Linit	ilmit	Linit	lint	Heren La	L'aiscar ai	L'miccate (2	Ilait	H128Ett	10 (2018)192	THE BREE 9.	Inst	1975.054
Residentes with RCU	15 754	0100	DE/	20.0	10.0	0.02	0.58	3.00	0.00	7.78	0.04	107	0 PD	D DA	0010	DEC	0112	0.00	01
Mainhead	4VA (2	0.00	0.0	30,0	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	000	0.04	8.87	0.01	21.4	0.00	0
Drawinds to Decidenciae (307 from DOW)	75 05	0.00	1 121	* 0.00	0.00	0.22	0.22	0.00	0.00	1.09	20.02	1.40	0.00	Dia	0.02	C.UL Cal	× 0.00	v 0.00	0
Hainhan	20.47	0.01	0.13	3.82	8.05	0.04	022	0.01	0.00	0.05	0.0	000	0.00	0 14	3,14	n.no	0.20	0.05	0
Discover Developments	P. P.67	4,61	0.10	0,02	0.02	0.04			0.20	0,00	6110	620	910	0.00	0,00	6.60	6.64	6.62	8
Debase Coverpress	0.075					-								Contraction of the second					
Desinten Company E ideas (DT' for			12 2 2 2 2	and the second second		-							-		-				
Prokinky to Commercial Europhys (SUC) Inter-	9.00	P. P.D.	1.00	5 55	0.02	0.75	0.55	0.00		6 52	N DE	0.77		0.00	0.00	0.00	2.20	5.00	
Haindread .	3.03	0.00	1.10	9.95	0.00	025	0.20	0.00	0.50	0.20	0.00	8.12	0.15	0.00	0.00	0.00	0.00	3.66	0
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(Laborer et al. 1997)	2.073	6.00	0.91	9.09	0.09	0.05	0.05	0.85	0.09	5,15	0.91	0.00	00	0.05	0.05		0.75	0.8	0
Negited	-	0.00	0.02	9.06	0.00	000	0.30	0,00	0.00	0.00	9.92	0.00	8.02	000	0.00	9.00	0.20	0.04	0
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Partes 7	15.0%	0.00	6.00	0.00	0.00	000	0 30	9.90	01.1	0.00	0.00	- 00	. 00	000	3.30	0.00	0.00	0.00	0
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ion RCW1	15.0%	03.0	C.33	0,00	0.00	000	0 00	0.00	02.0	00.0	0,23	1.00	0.33	000	0.00	0.00	0.33	0.00	0
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TOTAL	100.0%	0.02	0.51	0.02	0.02	0.09	90 0	0.02	0.00	60.0	0.12	72.0	076	0.05	0.05	0.05	0.15	0.02	0
WEIGHTED TOTAL		0.00	0.07	0.00	0.00	001	0.01	0.00	0.00	0.01	0.02	0.14	011	001	0.01	0.01	0.02	0.00	0
Natural .	72.0%																		1
Natural Forests (Acres)	5.0%	0.42	0.53	0.37	0.39	0 00	0 00	0.42	1.00	0.11	0.35	0.56	0 84	0 32	3.28	0.34	0.25	0.35	0
Neighted		0.02	0,03	0.02	0.02	0.00	0 00	9.02	2.05	10.0	0.02	0.03	0 04	0.02	2.2	0.02	0,01	0.02	0
Stream/River Crossings	30.0%	1.00	60.0	0.78	0.44	058	05€	1.00	0.83	0,44	0.89	0.44	0.22	072	0.17	0.11	0.22	0.28	0
Weighted		0,30	0.00	0.25	0,13	0 17	0.17	0.30	0.25	0.13	0.27	0.13	0 07	0.22	3,05	0.03	0,07	0.05	0
Wetland Areas (Acres)	60.0%	0.25	60.0	9.18	0.31	0 14	0 13	0.25	0.51	0.12	0.22	0.57	. 00	0 14	3.0-	0.17	0,17	0.22	0
Weighted		0.15	0.00	01	0.19	60.0	0.08	3.15	2.36	10.0	0.15	0.34	0.60	80.0	2.0*	0.10	0.10	0.15	0
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TOTAL	100 0%	047	0.03	0.96	0.35	2.25	0.25	0.47	070	0.77	0.41	0.54	0.76	0.50	0.07	215	0.18	0.23	0
NEIGHTED TOTAL		0.34	0.02	0.26	0.25	2.18	0.18	0.34	0.50	0.16	0.50	0.40	0.55	0.23	0.05	0.11	0.13	0.17	0
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IVEIGINEO	1000	0.07	0.22	0.12	0,11	0.00	0 30	10.07	2.11	0,03	0.10	0.40	0.29	007	3.12	0.13	0.12	0,14	0
CIAL	100.0%	0.38	0.54	0,41	0.42	0.32	0.32	0.38	0.39	0.32	0.32	0.70	0.51	0.34	0.40	0.42	0.40	0.48	0
WEIGHTED TOTAL		3.05	0.05	0.08	0.06	0.05	0.04	0.05	0.05	0.05	0.04	0,10	0.07	0.03	0.06	0.06	0.08	2.07	0
SUM OF WEIGHTED TOTALS	1	0.39	0.17	0.32	0.31	0.24	0.24	0.39	0.56	0.21	0.35	0.63	072	0.28	0.1	2.18	0.20	0.24	0
RANK	1	14	3	12	1 11	1 9	1 7	1 15	1 16	6	13	1 17	10	1 10	1	1 4	5	3	1 7

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2.5 **Emphasis on Natural Environment**

Table 7 - Emphasis on Natural Environment

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Weintred	40.070	0.00	000	610	610	0.04	0.00	0.00	010	5.50	0.02	0.45	1.55	010	0.00	0.00	0.12	0.00	0.02
Dissimption Residences (300 tom RDM)	20.0%	0.07	08:	010	5.50	0.77	0.22	766	010	5.73	0.15	100	0.80	5.42	5.64	0.18	0.00	00.0	0.01
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Province to Commerce Bulk ross (300' from RF	3.8%	0.00	- 00	010	010	0.75	0.25	000	61.0	0.25	0.00	0.75	5.75	0.10	5.55	20.0	30.6	00.0	5.07
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Prevince on History Startures Distory (* 500) fr	15.0%	10.0	023	000	010	0.00	0.00	000	5.55	010	0.33	107	0.22	0.00	P. P.P.	0.00	0.00	00.0	0.97
Mainted	2.0	10.0	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	015	20.0	0.00	0.00	0.00	0.05	00.0	0.07
TOTAL	100 05	0.02	051	0.02	0.07	0.00	0.00	000	000	0.00	0.12	0.07	0.76	0.05	0.05	0.05	0.15	0.02	0.1
WEIGHTED TOTAL		0.01	0.17	5.01	00:	0.05	0.03	0.01	0.00	0.03	0.04	0.12	0.75	0.02	0.02	0.02	0.05	0.01	0.01
Valural	33.1%	PROPERTY.				E Maintain													
Vatural Forests (Acres)	5.0%	0.42	0.53	137	0.39	20.0	20.0	0.42	01*	2**	0.35	0.35	2 84	0.32	0.25	0.34	0.25	0.35	0.4
Weiphied		0.02	0.03	0.02	0.02	0.00	0.00	0.02	0.05	DI1	0.02	0.03	004	0.02	0.0*	0.02	0.01	0.02	0.01
Stream, River Crossings	30.0%	1.02	000	: 78	0.44	0.55	0.55	- 00	283	0.44	0.89	0.44	2.22	: 72	0.17	0.1*	0.22	0.28	12
Welphied		0.30	000	0.23	2/3	0.17	0,17	0.30	0.25	5.13	0.27	0.13	200	0.22	0.05	0.03	0.07	0.08	0.07
Wetarc Areas (Acres)	60.0%	0.25	0.00	5-8	0.3*	0.14	0.13	0.25	261	0.12	0.22	0.57	- 00	2.4	2.0	0.17	0.17	0.22	0.03
Weighted		0.15	0.00	211	0.19	0.05	0.05	015	0.36	2.27	0.13	0.34	050	800	0.01	0.10	0,10	013	0:07
Ficzolain Areas (Acres)	5.0%	0.03	0.07	500	0.20	90.0	909	0.03	0.58	211	0.02	1.00	0.99	0.02	010	20.0	20.0	2.01	10.0
Weiphted		0.00	0.00	010	0.0*	0.00	000	000	0.03	010	0.00	0.05	0.05	010	0.00	0.00	20.0	000	000
TOTAL	100.0%	D.47	0.03	0.35	035	025	0.25	0.47	0.70	0.22	D.41	0.56	0.75	0.32	0.07	D*5	0.18	0.23	30.0
WEIGHTED TOTAL		0.16	0.01	0.12	0.12	830	600	0.15	0.23	0.07	014	219	0.25	0.11	202	0.05	0.06	0.08	003
Engineering	13.3%		The sec									(Concepted in	Contraction of the					a series de	1.200
Percent Rebuild with Existing Till"	0.0%	Sale of	1111					Server State			2.53.65		10.396	5 7 (SPC)	58 M.C.	W. Con	and the second	100	
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Weiphred		0.3D	014	0.30	0.30	0.25	0.25	0 30	0.28	0.28	0.20	0.00	0 03	0.25	0.25	0.25	0.23	0.30	0.21
Number of Parcels	30.0%	0.05	DEI	900	0.02	0.14	0.13	004	010	900	9.04	1.0:	0.65	610	215	0.13	0.15	2-3	0.4
Welphred		0.02	0 18	0.02	0.01	0.04	0.04	001	000	0.02	0.0-	0.30	0.19	0.02	0.03	0.04	0.05	0.04	0.03
Total Project Costs	40.0%	0.17	054	0.24	0.28	20.0	20.0	8.0	0.28	90.0	0.25	1.00	271	018	0.30	0.32	0.29	0.84	033
Weighted		0.07	0.22	010	0,11	0.00	0.00	007	0.11	0.03	0.10	0,40	0.29	007	0.12	0,13	0.12	0.14	01
TOTAL	100.0%	0.35	0.54	0.41	0.42	0.32	0.32	0.38	0.39	0.32	0.32	0.70	0.51	034	0.40	0.42	0,40	0.48	0.38
WEIGHTED TOTAL		2.13	0 18	012	0.14	0.11	0.11	013	0.13	2.11	0.1*	0.23	0.17	011	0.13	0.14	0.13	0.6	010
SULL OF WEIGHTED TOTALS		0.29	0.36	0.28	1.28	0.22	0.22	0.29	0.36	32	0.22	0.74	2 63	0.23	2.17	0.2"	0.24	5.24	0.21
RANK		14	-5		10	5	1 2	- 2		3	12	12	-7	7		2	2	0	1 2

Table 8 - Equal Consideration of Categories (Simple Average)

2.6 Equal Consideration of Categories (Simple Average)

2.7 Selection of Top Routes

For the Thomson – Vogtle project, the six top routes to be examined in the Expert Judgment Model were determined to be Member 06, Member 10, Potential 01, Committee 012810, Committee 021010, and Committee 011310. These routes were selected by their occurrence within a list of top seven routes in at least three of the four environments. These routes were then analyzed in the Expert Judgment portion of the model. According to the meeting minutes at the Route Selection Meeting, the criteria for selecting these six routes were as follows:

"Upon reviewing the top routes in each environment (Built, Natural, Engineering, Simple) 6 routes appeared within the top 7 rankings in at least 3 out of 4 environments. These 6 routes were carried forward into the Expert Judgment Model."

Figure 21 (Page 51) depicts the graphical representation of the route rankings. Table 9 (below) displays the selected routes compared to all routes.

Route	Built Rank	Natural Rank	Engineering Rank	Simple Rank		
Member 01	8	14	11	14		
Member 02	16	3	16	15		
Member 03	5	12	12	11		
Member 04	4	11	13	10		
Member 05	11	9	3	6		
Member 06	10	7	1	5		
Member 08	7	15	10	13		
Member 09	12	16	14	16		
Member 10	9	6	2	3		
Member 12	15	13	5	12		
Co-Locate 01	18	17	18	18		
Co-Locate 02	17	18	17	17		
Committee 011310	6	10	4	7		
Committee 012810	1	1	6	1		
Potential 01	3	4	9	2		
Potential 02	14	5	8	8		
Potential 03	2	8	15	9		
Committee 021010	13	2	7	4		

Table 9 - Top Routes



Top Routes



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Vogile 500 kV

Transmission I mee

Sinng Study Addendum

Part III: Expert Judgment

3.1 Criteria & Weights

In the Expert Judgment Model, the six top routes from the Route Selection Model were examined by the Georgia Power project team. In the Expert Judgment phase, criteria and weights not found in the Alternate Route Evaluation phase are created by the GPC team. Each route is discussed, compared, and assigned a number from 1-3 with respect to the issue/criterion. Lower values are more suitable. The sum of the normalized values for each route creates a final score, with the lowest score belonging to the preferred route. Table 10 below displays the criteria and weights assigned by the routing team.

Concern	Weight
Community	25%
Environmental	20%
Construction, Maintenance, Accessibility	20%
Cost	15%
System Reliability	20%

Table 10 - Criteria & Weights

3.2 Expert Judgment Comparison

The following is an excerpt from the meeting minutes from the route selection meeting held on February 11th, 2009.

Route Descriptions:

Variations within the alternative routes can be broken up into three sections. Section1, the easterly section from Plant Vogtle to Hwy 25 north of Waynesboro, deals mainly with issues of reliability. Section 2, the central section from Hwy 25 north of Waynesboro to Hwy 47 north of Wrens, focuses on wetlands issues around the Brier Creek basin and the populated Keysville area. Section 3, the westerly section from Hwy 47 north of Wrens to the Thomson Substation, involves navigating kaolin mines and densely populated areas of McDuffie county.

Section 1

Starting at Plant Vogtle, all routes follow the same path westward for approximately 15.7 miles to US Hwy 25 north of Waynesboro just north of Brier Creek. The first 1.6 miles from the plant run parallel and to the north of the existing Vogtle - Warthen 500 kV line. This section of route varies from other alternatives considered in that it increases system reliability by minimizing the distance of paralleling the existing 500 kV line and reduces the risk of a plant outage due to a damaging weather event.

Section 2

Routes "Member 6," "Member 10," and "Committee 01/13/10" follow more closely to the Briar Creek wetlands and floodplain areas whereas "Committee 01/28/10," "Committee 02/10/10," and "Potential 1" follow higher and more accessible ground. All routes cross Brier Creek just west of Farmers Bridge Rd. All routes stay to the south of Keysville. All routes follow an existing gas pipeline as it crosses US Hwy 1 north of Wrens.

Section 3

In the mining area between Reedy Creek and Brier Creek (south end of section3) two options were studied. Routes "Member 6, "Member 10," "Committee 01/13/10," and "Committee 01/28/10" traversed cross country avoiding obviously active mines while routes "Committee02/10/10" and "Potential 1" followed the existing Thomson Primary – Thiele Kaolin 46 kV line which offered a co-location opportunity and gave better access along Hillman Rd.

In the central area of section 3 along Ellington Airline Rd southwest of Dearing, two options were studied. Routes "Member 6," and "Member 10"stay to the east of the Fort Creek basin and follow the ridge along Ellington Airline Rd. These routes also cross an extensive wetland area south of Bowens Pond. Routes "Committee 01/13/10," "Committee 01/28/10," "Committee 02/10/10," and "Potential 1" follow the Thomson Primary – Thiele Kaolin 46 kV

line and the Warthen- Thomson 500 kV line to the west of the Fort Creek basin and have less impacts to residential proximity.

The northern area of section 3 involved the judging of reliability benefits of separating the 500 kV lines against the residential and community impacts of multiple 500 kV corridors. It also involved the potential crossing of the two 500 kV lines at two locations to accomplish separation. Routes "Committee 01/13/10," "Committee 01/28/10," and Potential 1"cross the existing Warthen- Thomson 500 kV line at Hobbs Mill Rd to improve reliability and reduce co-location of the two 500 kV lines to 2.8 miles. Route "Committee 02/10/10" stays on the east side of the Warthen – Thomson 500 kV line without crossing and co-locates for a distance of 6.1 miles. The committee deemed the extended co-location distance acceptable to minimize the residential and community impacts and additional costs of crossing the two 500 kV lines. (Note: The 500 kV lines would not physically cross but would swap alignments at two locations. Swapping cost estimate \$1m/swap = \$2m total additional cost.)







Figure 22 - Geographic Sections for Expert Judgment

Page 55

The members of the route selection committee were instructed to review the routes and assign a ranking by each committee member. Further discussion was then held to determine a consensus value to input to the Expert Judgment Model (Table 11). The values range from 1 to 3, with 1 being "Best" and 3 being "Good."

Table 11 - Expert Judgment

EXPERT JUDGMENT

1 = Best

2 = Better 3 = Good

	Per Project		CONTRACTOR			[[] 中心的问题。	
		Committee 012810	Potential 1	Committee 021010	Member 6	Member 10	Committee 011310
Community	25%	2	2	1	3	3	2
Weighted		0.5	0.5	0.25	0.75	0.75	0.5
Environmental	20%	1	3	1	3	3	2
Weighted		0.2	0.6	0.2	0.6	0.6	0.4
Construction, Maintenance, Accessibility	20%	3	3	1	3	3	3
Weighted	100 N 200 A 200	0.6	0.6	0.2	0.6	0.6	0.6
Cost	15%	2	2	2	1	1	2
Weighted		0.3	0.3	0.3	0.15	0.15	0.3
System Reliability	20%	2	2	2	1	1	2
Weighted		0.4	0.4	0.4	0.2	0.2	0.4
TOTAL							
	100%	2	2.4	1.35	2.3	2.3	2.2



3.3 Route Selection

The final overall weighting is as follows:

Member 06 scored 2.30 according to the Expert Judgment Analysis.
Member 10 scored 2.30 according to the Expert Judgment Analysis.
Potential 01 scored 2.40 according to the Expert Judgment Analysis.
Committee 012810 scored 2.00 according to the Expert Judgment Analysis.
Committee 021010 scored 1.35 according to the Expert Judgment Analysis.
Committee 011310 scored 2.20 according to the Expert Judgment Analysis.

Part IV: Conclusion

This study is based on the EPRI siting methodology. The results of this study developed a route for a 500 kV transmission line right-of-way from the Thomson substation to Plant Vogtle. The Georgia Power routing team determined, by consensus, Route Committee 02/10/10 as the most suitable route for the Thomson – Vogtle 500kV transmission line project. The route is now pending further review.

Georgia Power Company





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APPENDIX C

ENGINEERING DRAWINGS OF JURISDICTIONAL IMPACT LOCATIONS





















 $\frac{\text{SCALE}}{\text{VERTICAL: } 1^{"} = 10'}$ HORIZONTAL: $1^{"} = 100'$

GEORGIA POWER CO., ATLANTA, GA. LAND DEPARTMENT REVISIONS THOMSON - VOGTLE 500kV TRANSMISSION LINE SECTION 1 STREAM IMPACT #1 PROFILE EXHIBIT MODUFFIE, WARREN, JEFFERSON & BURKE COUNTIES, GEORGIA DR. TR. BY ENGINEER AEC, INC. 50 WARM SPRINGS CIRCLE CALE DATE 1"=100' 11/02/12 DRAWING No. SHEET No. SCALE 1"=100' DATE ROSWELL, GEORGIA 30075 (770) 641-1942 AEC JOB# 11-3246.20 SI-1b **ESPCP** 0 Exhibit







