South Carolina Electric & Gas
VCS1 - Killian 230 kV Line
Blythewood - Killian Segment
Criteria Weights

	SENSITIVITY TO TRANSMISSION LINE CONSTRUCTION				
	LOW	MODERATE / LOW	MODERATE	MODERATE / HIGH	HIGH
CULTURAL RESOURCES					
Archaeological Site - Eligibility for the NRHP* Undetermined				■	
Archaeological Site - Eligibility for the NRHP Undetermined - 50' Buffer			■		
Archaeological Site - Eligible for the NRHP				■	
Archaeological Site - Eligible for the NRHP - 50' Buffer			■		
Archaeological Site - Ineligible for the NRHP		■			
Archaeological Site - Ineligible for the NRHP - 50' Buffer	■				
Archaeological Site - Potentially Eligible for the NRHP				■	
Archaeological Site - Potentially Eligible for the NRHP - 50' Buffer			■		
Historic Site - Ineligible for the NRHP				■	
Historic Site - Ineligible for the NRHP - 100' Buffer			■		
Historic Site - Ineligible for the NRHP - 500' Buffer			■		
Historic Site - Ineligible for the NRHP - 1000' Buffer			■		
Historic Site - Eligible for the NRHP - 1000' Buffer			■		
Historic Site - Potentially Eligible for the NRHP					■
Historic Site - Potentially Eligible for the NRHP - 100' Buffer					■
Historic Site - Potentially Eligible for the NRHP - 500' Buffer				■	
Historic Site - Potentially Eligible for the NRHP - 1000' Buffer			■		
No Recorded Cultural Resource Sites	■				

*National Register of Historic Places

HYDROGRAPHY					
Stream				■	
Lake / Pond			■		
50' Buffer				■	
100' Buffer		■			
Upland	■				
WETLANDS					
Palustrine Emergent			■		
Palustrine Forested				■	
Palustrine Scrub / Shrub			■		
50' Buffer		■			
100' Buffer	■				
Upland	■				
LAND COVER					
Bottomland / Flood Plain Forest				■	
Closed Canopy Evergreen Forest / Woodland			■		
Dry Deciduous Forest / Woodland				■	
Dry Mixed Forest / Woodland			■		
Dry Scrub / Shrub Thicket	■				
Fresh Water	■				
Grassland / Pasture	■				
Marsh / Emergent Wetland			■		
Mesic Deciduous Forest / Woodland				■	
Mesic Mixed Forest / Woodland				■	
Needle-Leaved Evergreen Mixed Forest / Woodland			■		
Open Canopy / Recently Cleared Forest		■			
Swamp			■		
Urban Development	■				
Urban Residential			■		
Wet Scrub / Shrub Thicket		■			
PRIME AND IMPORTANT FARMLANDS					
Farmland Of Statewide Importance		■			
Prime Farmland		■			
Prime Farmland If Drained And Protected From Flooding Or Not Frequently Flooded	■				
Not Prime Or Important Farmland	■				
FEMA FLOOD ZONES					
Zone A - 100-Year Flood Plain (No Base Flood Elevation Determined)		■			
Zone AE - 100-Year Flood Plain (Base Flood Elevation Determined)		■			
Zone AE - Floodway			■		
Zone X - Areas Outside of 500-Year Flood Plain	■				
PUBLIC VISIBILITY					
Visible (0 to 1/8 Mile of a Public Road)			■		
Visible (1/8 to 1/4 Mile of a Public Road)		■			
Visible (1/4 to 1/2 Mile of a Public Road)		■			
Not Visible from a Public Road	■				
FUTURE LAND USE					
Richland County - Conservation			■		
Richland County - Low Density Suburban		■			
Richland County - Suburban		■			
Richland County - Urban Village		■			
Railroad Right-of-Way					■
Road Right-of-Way				■	

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	SENSITIVITY TO TRANSMISSION LINE CONSTRUCTION				
	LOW	MODERATE / LOW	MODERATE	MODERATE / HIGH	HIGH
COMMUNITY AMENITIES AND PUBLIC INFRASTRUCTURE					
Cemetery					■
Church					■
Communication Tower					■
Community Center			■		
Day Care				■	
Fire / Rescue				■	
Government				■	
Railroad Right-of-Way					■
Recreation				■	
Road Right-of-Way				■	
School					■
Utility		■			
Utility - Gas Line Right-of-Way		■			
Utility - SCE&G Substation	■				
Utility - SCE&G Transmission Line Right-of-Way	■				
Utility - Santee Cooper Transmission Line Right-of-Way	■				
Utility - Water		■			
Utility - Water Tower				■	
No Identified Community Amenities or Public Infrastructure	■				
OCCUPIED BUILDINGS					
Church Building (50' Buffer)					■
Church Building (100' Buffer)					■
Church Building (500' Buffer)				■	
Church Building (1000' Buffer)		■			
Commercial Building (50' Buffer or Footprint)				■	
Commercial Building (100' Buffer)			■		
Commercial Building (200' Buffer)	■				
Community Building (50' Buffer)				■	
Community Building (100' Buffer)			■		
Community Building (500' Buffer)		■			
Day Care (50' Buffer)					■
Day Care (100' Buffer)				■	
Day Care (500' Buffer)			■		
Day Care (1000' Buffer)		■			
Fire / EMS Building (50' Buffer)					■
Fire / EMS Building (100' Buffer)				■	
Fire / EMS Building (200' Buffer)	■				
Government Building (50' Buffer)					■
Government Building (75' Buffer)				■	
Government Building (500' Buffer)	■				
Light Industrial Building (Footprint)				■	
Light Industrial Building (100' Buffer)			■		
Light Industrial Building (200' Buffer)	■				
Multi-Family Residence (50' Buffer)					■
Multi-Family Residence (100' Buffer)					■
Multi-Family Residence (500' Buffer)				■	
Multi-Family Residence (1000' Buffer)			■		
School (Footprint)					■
School Amenities					■
School - 500' Buffer Beyond All Amenities				■	
School - 1000' Buffer Beyond All Amenities			■		
Single-Family Residence (50' Buffer)					■
Single-Family Residence (100' Buffer)					■
Single-Family Residence (500' Buffer)				■	
Single-Family Residence (1000' Buffer)			■		
No Occupied Buildings	■				
ZONING					
Richland County - Light Industrial District	■				
Richland County - Heavy Industrial District	■				
Richland County - General Commercial District	■				
Richland County - Neighborhood Commercial District	■				
Richland County - Office and Institutional District	■				
Richland County - Planned Development District		■			
Richland County - Residential, Multi-Family, High Density District		■			
Richland County - Manufactured Home District		■			
Richland County - Residential, Single-Family, Estate District		■			
Richland County - Residential, Single-Family, Low Density District		■			
Richland County - Residential, Single-Family, Medium Density District		■			
Richland County - Residential, Single-Family, High Density District		■			
Richland County - Rural District		■			
Town of Blythewood - 1- and 2-Family Residential District		■			
Town of Blythewood - General Commercial District	■				
Town of Blythewood - Light Industrial Research Park District	■				
Town of Blythewood - Low Density Single-Family Residential District		■			
Town of Blythewood - Development District	■				
Town of Blythewood - Planned Development District		■			
Town of Blythewood - Rural District		■			
Railroad Right-of-Way					■
Road Right-of-Way				■	
Zoning Unknown	■				

Transmission Line Siting
Criteria Constraint Weighting Definitions

Sensitivity to Transmission Line Construction

HIGH

These areas (1) contain resources or land uses protected by legislation or administrative policy, (2) contain sensitive resources that would be significantly affected by the addition of a transmission line, or (3) present a severe physical constraint to transmission line construction and operation. Because it would be extremely difficult to locate a transmission line in these areas, they are often avoided when developing alternate transmission line routes.

MODERATE-HIGH

These areas typically contain natural resources with moderate-high sensitivity to transmission line construction or existing land uses that are significantly sensitive to transmission line construction due to the land use type, historic importance, density, etc. Moderate-high constraint areas may also contain physical characteristics that would make transmission line construction and/or operation through them extremely difficult.

MODERATE

These are areas with natural resources or existing land uses that are moderately sensitive to transmission line construction. Moderate constraint areas may contain some physical constraint to transmission line construction but none that cannot be mitigated through routine construction practices.

MODERATE-LOW

These areas contain natural resources and existing land uses that have minor sensitivity to transmission line construction. Physical constraint to transmission line construction in low-moderate constraint areas is usually very minor.

LOW

These areas do not contain natural resources or existing land uses that are sensitive to transmission line construction, nor do they contain physical constraints that pose measurable challenges to transmission line construction. Low constraint areas often include existing utility rights-of-way.

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Siting Study Route Evaluation Summary Sheet

Alternate Route	Alternate Route Length (Miles)	Acres of Right-of-Way	Cultural Resource Factors	Natural Resource Factors	Land Cover Factors	Property Ownership Factors	Land Use Factors	Occupied Buildings Factors	Visibility Factors (Public)	Visibility Factors (Residential)	Water Quality Factors	Total Normalized Route Evaluation Score	Route's Siting Study Rank
A	8.8	127.6	0.00	0.00	10.00	9.72	3.15	2.21	3.92	1.05	10.00	40.05	6
B	8.9	128.5	0.00	0.00	9.26	10.00	4.27	2.60	5.90	3.28	8.26	43.57	13
C	8.8	126.3	0.00	0.00	8.19	9.26	4.31	2.82	7.08	3.22	6.81	41.69	10
D	8.2	117.9	4.00	0.00	8.95	9.03	3.46	1.86	4.01	1.74	8.39	41.44	9
E	8.0	114.5	4.00	0.00	7.99	8.29	4.57	2.08	5.00	1.69	6.94	40.56	7
F	7.8	112.1	4.00	0.00	8.15	8.45	8.13	2.06	4.15	1.72	7.55	44.21	14
G	7.6	108.7	4.00	0.00	7.21	7.70	9.24	2.27	5.14	1.67	6.10	43.33	12
H	5.7	81.7	0.00	0.00	4.33	5.96	7.44	1.88	8.25	3.91	5.27	37.04	3
I	6.3	90.6	0.00	0.00	4.74	5.98	10.00	3.20	9.53	5.40	6.21	45.06	16
J	6.4	91.6	0.00	0.00	4.43	5.11	4.84	5.00	8.07	5.52	5.90	38.87	5
K	5.8	82.6	0.00	0.00	3.89	4.68	4.67	4.65	7.50	3.66	4.64	33.69	1
L	5.2	73.9	10.00	0.00	3.07	3.33	3.01	7.29	6.46	8.91	2.86	44.93	15
M	6.5	92.6	0.00	0.00	4.72	6.01	10.00	4.19	10.00	5.83	6.19	46.94	18
N	6.5	93.5	0.00	0.00	4.41	5.12	4.84	5.98	8.54	5.95	5.83	40.67	8
O	5.9	84.6	0.00	0.00	3.86	4.69	4.67	5.64	7.97	4.09	4.62	35.54	2
P	5.3	75.8	10.00	0.00	3.06	3.34	3.01	8.27	6.93	9.41	2.79	46.81	17
Q	6.4	92.3	0.00	0.00	4.39	4.72	4.84	7.69	8.82	6.60	5.83	42.89	11
R	5.8	83.3	0.00	0.00	3.84	4.29	4.67	7.34	8.25	4.74	4.62	37.75	4
S	5.2	74.5	10.00	0.00	3.04	2.94	3.01	10.00	7.22	10.00	2.79	49.00	19

Legend

- Scored in Highest 1/3 of Score Range
- Scored in Middle 1/3 of Score Range
- Scored in Lowest 1/3 of Score Range

Table 3