Appendix F

GEIS Environmental Issues Not Applicable to Surry Power Station, Units 1 and 2

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Table F-1 lists those environmental issues listed in the *Generic Environmental Impact Statement* (GEIS) *for License Renewal of Nuclear Plants* (NRC 1996; 1999)[(a)] and 10 CFR Part 51, Subpart A, Appendix B, Table B-1, that are not applicable to Surry, Units 1 and 2, because of plant or site characteristics.

Table F-1. GEIS Environmental Issues Not Applicable to Surry Power Station, Units 1 and 2

ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1	Category	GEIS Sections	Comment
SURFACE WATER QUALITY, HYDROLOGY, AND USE (FOR ALL PLANTS)			
Altered thermal stratification of lakes	1	4.2.1.2.2 4.4.2.2	Surry, Units 1 and 2, do not discharge into a lake.
Water-use conflicts (plants with cooling ponds or cooling towers using makeup water from a small river with low flow)	2	4.3.2.1 4.4.2.1	Surry, Units 1 and 2, cooling systems do not use makeup water from a small river with low flow.
AQUATIC ECOLOGY (FOR PLANTS WITH COOLING TOWER BASED HEAT DISSIPATION SYSTEMS)			
Entrainment of fish and shellfish in early life stages	1	4.3.3	North Anna does not dissipate heat using cooling towers.
Impingement of fish and shellfish	1	4.3.3	North Anna does not dissipate heat using cooling towers.
Heat shock	1	4.3.3	North Anna does not dissipate heat using cooling towers.

(a) The GEIS was originally issued in 1996. Addendum 1 to the GEIS was issued in 1999. Hereafter, all references to the "GEIS" include the GEIS and its Addendum 1.

Table F-1. (contd)

ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1	Category	GEIS Sections	Comment
GROUNDWATER USE AND QUALITY			
Groundwater-use conflicts (potable and service water, and dewatering; plants that use <100 gpm)	1	4.8.1.1 4.8.2.1	Surry, Units 1 and 2, use >100 gpm of groundwater.
Groundwater-use conflicts (plants using cooling towers withdrawing makeup water from a small river)	2	4.8.1.3 4.4.2.1	This issue is related to heat-dissipation systems that are not installed at Surry, Units 1 and 2.
Groundwater-use conflicts (Ranney wells)	2	4.8.1.4	Surry, Units 1 and 2, do not have or use Ranney wells.
Groundwater quality degradation (Ranney wells)	1	4.8.2.2	Surry, Units 1 and 2, do not have or use Ranney wells.
Groundwater quality degradation (cooling ponds in salt marshes)	1	4.8.3	Surry, Units 1 and 2, do not use cooling ponds
Groundwater quality degradation (cooling ponds at inland sites)	2	4.8.3	Surry, Units 1 and 2, are not located at an inland site.
TERRESTRIAL RESOURCES			
Cooling tower impacts on crops and ornamental vegetation	1	4.3.4	This issue is related to a heat-dissipation system that is not installed at Surry, Units 1 and 2.
Cooling tower impacts on native plants	1	4.3.5.1	This issue is related to a heat-dissipation system that is not installed at Surry, Units 1 and 2.
Bird collisions with cooling towers	1	4.3.5.2	This issue is related to a heat-dissipation system that is not installed at Surry, Units 1 and 2.
Cooling pond impacts on terrestrial resources	1	4.4.4	Surry, Units 1 and 2, do not use cooling ponds

Table F-1. (contd)

ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1	Category	GEIS Sections	Comment
	HUMAN HEALTH		
Microbiological organisms[(a)] (occupational health)	1	4.3.6	This issue is related to workers maintaining cooling towers, which Surry does not have.
Microbiological organisms, public health (plants using lakes or canals or cooling towers or cooling ponds that discharge to a small river)	2	4.3.6	Surry, Units 1 and 2, do not use cooling lakes, towers, or ponds and do not discharge into a small river (the location of discharge into the James River is categorized as an estuary).

(a) In its Environmental Report (VEPCo 2001), Virginia Electric and Power Company inadvertently stated that this issue was considered to apply to Surry. During discussions with the staff during the September site visit to Surry and the October site visit to North Anna, the staff established that this issue is not applicable to Surry.

F.1 References

10 CFR Part 51. Code of Federal Regulations, *Title 10, Energy,* Part 51, "Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions."

U.S. Nuclear Regulatory Commission (NRC). 1996. *Generic Environmental Impact Statement for License Renewal of Nuclear Plants*. NUREG-1437, Volumes 1 and 2, Washington, D.C.

U.S. Nuclear Regulatory Commission (NRC). 1999. *Generic Environmental Impact Statement for License Renewal of Nuclear Plants: Main Report,* "Section 6.3 -Transportation, Table 9.1, 'Summary of findings on NEPA issues for license renewal of nuclear power plants, Final Report'." NUREG-1437, Volume 1, Addendum 1, NRC, Washington, D.C.

Virginia Electric and Power Company (VEPCo). 2001. *Application for License Renewal for Surry Power Station, Units 1 and 2,* "Appendix E, Environmental Report - Operating License Renewal Stage." Richmond, Virginia.