

## **Appendix F**

### **GEIS Environmental Issues Not Applicable to North Anna Power Station, Units 1 and 2**

## Appendix F

### GEIS Environmental Issues Not Applicable to North Anna Power Station, Units 1 and 2

The following table lists those environmental issues listed in the *Generic Environmental Impact Statement for License Renewal of Nuclear Plants* (GEIS) (NRC 1996; 1999)<sup>(a)</sup> and 10 CFR Part 51, Subpart A, Appendix B, Table B-1, that are not applicable to North Anna Power Station, Units 1 and 2 because of plant or site characteristics.

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

ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1	Category	GEIS Sections	Comment
<b>SURFACE WATER QUALITY, HYDROLOGY, AND USE (FOR ALL PLANTS)</b>			
Altered salinity gradients	1	4.2.1.2.2 4.4.2.2	Issue applies to a saltwater receiving water body, that North Anna does not have.
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	North Anna cooling systems do not use makeup water from a small river with low flow.
<b>AQUATIC ECOLOGY (FOR PLANTS WITH COOLING TOWER BASED HEAT DISSIPATION SYSTEMS)</b>			
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.

(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.

Appendix F

	<b>ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1</b>	<b>Category</b>	<b>GEIS Sections</b>	<b>Comment</b>
1	Heat shock	1	4.3.3	North Anna does not dissipate heat using cooling towers.
2	<b>GROUNDWATER USE AND QUALITY</b>			
3	Groundwater use conflicts (potable and service water, and dewatering; plants that use >100 gpm)	2	4.8.1.1	NAPS uses <100 gpm of groundwater.
4			4.8.2.1	
5	Groundwater-use conflicts (plants using cooling towers withdrawing makeup water from a small river)	2	4.8.1.3	North Anna does not dissipate heat using cooling towers.
6			4.4.2.1	
7				
8	Groundwater-use conflicts (Ranney wells)	2	4.8.1.4	North Anna does not have or use Ranney wells.
9				
10	Groundwater quality degradation (Ranney wells)	1	4.8.2.2	North Anna does not have or use Ranney wells.
11				
12	Groundwater quality degradation (saltwater intrusion)	1	4.8.2.1	North Anna is located inland.
13				
14	Groundwater quality degradation (cooling ponds in salt marshes)	1	4.8.3	North Anna does not have cooling ponds in salt marshes.
15				
16	Groundwater quality degradation (cooling ponds at inland sites)	2	4.8.3	North Anna does not use cooling ponds.
17				
18	<b>TERRESTRIAL RESOURCES</b>			
19	Cooling tower impacts on crops and ornamental vegetation	1	4.3.4	North Anna does not dissipate heat using cooling towers.
20				
21	Cooling tower impacts on native plants	1	4.3.5.1	Issue applies to a heat dissipation system feature, cooling towers, that NAPS does not have.
22				
23				

	<b>ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1</b>	<b>Category</b>	<b>GEIS Sections</b>	<b>Comment</b>
1	Bird collisions with cooling towers	1	4.3.5.2	Issue applies to a heat dissipation system feature, cooling towers, that NAPS does not have.
2	Cooling pond impacts on terrestrial resources	1	4.4.4	North Anna does not use cooling ponds.

## 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.