

## **Appendix F**

### **GEIS Environmental Issues Not Applicable to McGuire Nuclear Station, Units 1 and 2**

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Table F-1 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 McGuire Nuclear Station, Units 1 and 2 (McGuire) because of plant or site characteristics.

**Table F-1.** GEIS Environmental Issues Not Applicable to McGuire

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	The McGuire cooling system does not discharge to an estuary. Lake Norman is fresh water.
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	This issue is related to heat dissipation systems that are not installed at McGuire.
<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	This issue is related to heat-dissipation systems that are not installed at McGuire.
Impingement of fish and shellfish	1	4.3.3	This issue is related to heat-dissipation systems that are not installed at McGuire.
Heat shock	1	4.3.3	This issue is related to heat-dissipation systems that are not installed at McGuire.

(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

Table F.1. (contd)

ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1	Category	GEIS Sections	Comment
<b>GROUNDWATER USE AND QUALITY</b>			
Groundwater-use conflicts (potable and service water, and dewatering; plants that use >100 gpm)	2	4.8.1.1 4.8.2.1	McGuire uses < 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 McGuire or are operated on bodies of water that are much smaller than Lake Norman.
Groundwater-use conflicts (Ranney wells)	2	4.8.1.4	McGuire does not use Ranney wells.
Groundwater quality degradation (Ranney wells)	1	4.8.2.2	McGuire does not use Ranney wells.
Groundwater quality degradation (saltwater intrusion)	1	4.8.2.1	McGuire is located on Lake Norman, a freshwater lake.
Groundwater quality degradation (cooling ponds in salt marshes)	1	4.8.3	This issue is related to a heat dissipation system that is not installed at McGuire.
Groundwater quality degradation (cooling ponds at inland sites)	2	4.8.3	This issue is related to a heat dissipation system that is not installed at McGuire.
<b>TERRESTRIAL RESOURCES</b>			
Cooling tower impacts on crops and ornamental vegetation	1	4.3.4	This issue is related to heat-dissipation systems that are not installed at McGuire.
Cooling tower impacts on native plants	1	4.3.5.1	This issue is related to heat-dissipation systems that are not installed at McGuire.
Bird collisions with cooling towers	1	4.3.5.2	This issue is related to heat-dissipation systems that are not installed at McGuire.
Cooling pond impacts on terrestrial resources	1	4.4.4	This issue is related to heat-dissipation systems that are not installed at McGuire.

1 **F.1 References**

2  
3 10 CFR 51. Code of Federal Regulations, *Title 10, Energy*, Part 51, “Environmental Protection  
4 Regulations for Domestic Licensing and Related Regulatory Functions.”

5  
6 U.S. Nuclear Regulatory Commission (NRC). 1996. *Generic Environmental Impact Statement*  
7 *for License Renewal of Nuclear Plants*. NUREG-1437, Volumes 1 and 2, Washington, D.C.

8  
9 U.S. Nuclear Regulatory Commission (NRC). 1999. *Generic Environmental Impact Statement*  
10 *for License Renewal of Nuclear Plants, Main Report*. “Section 6.3–Transportation, Table 9.1  
11 Summary of findings on NEPA issues for license renewal of nuclear power plants, Final  
12 Report.” NUREG-1437, Volume 1, Addendum 1, Washington, D.C.