

Appendix F

GEIS Environmental Issues Not Applicable to Fort Calhoun Station, Unit 1

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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)^(a) and 10 CFR Part 51, Subpart A, Appendix B, Table B-1 that are not applicable to Fort Calhoun Station, Unit 1 because of plant or site characteristics.

Table F-1. GEIS Environmental Issues Not Applicable to Fort Calhoun Station, Unit 1

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 salinity gradients	1	4.2.1.2.2 4.4.2.2	The Missouri River contains freshwater with no salinity gradient.
Altered thermal stratification of lakes	1	4.2.1.2.3	Fort Calhoun Station does not use a lake.
Water use conflicts (plants with cooling ponds or cooling towers using make-up water from a small river with low flow)	2	4.3.2.1	This refers to features (cooling ponds and cooling towers) that are not installed at Fort Calhoun Station.
AQUATIC ECOLOGY (FOR PLANTS WITH COOLING-TOWER-BASED HEAT DISSIPATION SYSTEMS)			
Entrainment of fish and shellfish in early life stages	1	4.2.2.1.2	This refers to a feature (cooling towers) that is not installed at Fort Calhoun Station.
Impingement of fish and shellfish	1	4.2.2.1.3	This refers to a feature (cooling towers) that is not installed at Fort Calhoun Station.
Heat shock	1	4.2.2.1.4	This refers to a feature (cooling towers) that is not installed at Fort Calhoun Station.

(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
GROUND-WATER USE AND QUALITY			
Ground-water use conflicts (potable and service water, and dewatering; plants that use >100 gpm)	2	4.8.1.1 4.8.2.1	Fort Calhoun Station uses <100 gpm of groundwater.
Ground-water use conflicts (plants using cooling towers withdrawing make-up water from a small river)	2	4.8.1.4	This refers to a feature (cooling towers) not installed at Fort Calhoun Station.
Ground-water-use conflicts (Ranney wells)	2	4.8.1.4	Fort Calhoun Station does not have or use Ranney wells.
Ground-water quality degradation (Ranney wells)	1	4.8.2.2	Fort Calhoun Station does not have or use Ranney wells.
Ground-water quality degradation (saltwater intrusion)	1	4.8.2.1	Fort Calhoun Station uses <100 gpm of groundwater and is not near a saltwater body.
Ground-water quality degradation (cooling ponds in salt marshes)	1	4.8.3	This refers to a feature (cooling ponds) not installed at Fort Calhoun Station.
Ground-water quality degradation (cooling ponds at inland sites)	2	4.8.3	This refers to a feature (cooling ponds) not installed at Fort Calhoun Station.
TERRESTRIAL RESOURCES			
Cooling tower impacts on crops and ornamental vegetation	1	4.3.5.1	This refers to a feature (cooling towers) not installed at Fort Calhoun Station.
Cooling tower impacts on native plants	1	4.3.5.1	This refers to a feature (cooling towers) not installed at Fort Calhoun Station.
Bird collisions with cooling towers	1	4.3.5.2	This refers to a feature (cooling towers) not installed at Fort Calhoun Station.
Cooling pond impacts on terrestrial resources	1	4.4.4	This refers to a feature (cooling ponds) not installed at Fort Calhoun Station.

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, Washington, D.C.