

Appendix F

GEIS Environmental Issues Not Applicable to Turkey Point Units 3 and 4

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The following table 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 Turkey Point Units 3 and 4 because of plant or site characteristics.

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 current patterns at intake and discharge structures	1	4.2.1.2.1 4.3.2.2 4.4.2	Turkey Point Units 3 and 4 do not withdraw or discharge water to an open body of water
Altered salinity gradients	1	4.2.1.2.2 4.4.2.2	The Turkey Point Units 3 and 4 cooling system does not discharge to an estuary.
Altered thermal stratification of lakes	1	4.2.1.2.2 4.4.2.2	Turkey Point Units 3 and 4 do not discharge into a lake.
Temperature effects on sediment transport capacity	1	4.2.1.2.3 4.4.2.2	Turkey Point Units 3 and 4 do not discharge cooling water to an open body of water.
Water-use conflicts (plants with once-through cooling systems)	1	4.2.1.3	Turkey Point Units 3 and 4 do not use a once-through cooling system.

(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.

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ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1	Category	GEIS Sections	Comment
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	The Turkey Point Units 3 and 4 cooling system does not use makeup water from a small river with low flow.
AQUATIC ECOLOGY (FOR ALL PLANTS)			
Thermal plume barrier to migrating fish	1	4.2.2.1.6 4.4.3	Turkey Point Units 3 and 4 do not discharge cooling water to a body of water accessible to migrating fish.
Distribution of aquatic organisms	1	4.2.2.1.6 4.4.3	Turkey Point Units 3 and 4 do not discharge cooling water to an open body of water.
Premature emergence of aquatic insects	1	4.2.2.1.7 4.4.3	Cooling system is hypersaline and without insects.
Stimulation of nuisance organisms	1	4.2.2.1.1 1 4.4.3	Cooling system is hypersaline and without such organisms.
AQUATIC ECOLOGY (FOR PLANTS WITH COOLING TOWER BASED HEAT DISSIPATION SYSTEMS)			
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 Turkey Point Units 3 and 4.
Impingement of fish and shellfish	1	4.3.3	This issue is related to heat-dissipation systems that are not installed at Turkey Point Units 3 and 4.
Heat shock	1	4.3.3	This issue is related to heat-dissipation systems that are not installed at Turkey Point Units 3 and 4.

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)	2	4.8.1.1 4.8.2.1	Turkey Point Units 3 and 4 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 Turkey Point Units 3 and 4.
Groundwater-use conflicts (Ranney wells)	2	4.8.1.4	Turkey Point Units 3 and 4 do not have or use Ranney wells.
Groundwater quality degradation (Ranney wells)	1	4.8.2.2	Turkey Point Units 3 and 4 do not have or use Ranney wells.
Groundwater quality degradation (cooling ponds at inland sites)	2	4.8.3	Turkey Point Units 3 and 4 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 Turkey Point Units 3 and 4.
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 Turkey Point Units 3 and 4.
Bird collisions with cooling towers	1	4.3.5.2	This issue is related to a heat-dissipation system that is not installed at Turkey Point Units 3 and 4.

F.1 References

10 CFR 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.