FEB-27-2002 12:30

NRC/NRR/DSSA/SPLB

J. W. White, Ph.D. February 21, 2002 Page 3

This discussion analyzes the continued operation of the project under the license renewal in light of the Enforceable Programs of the Virginia Coastal Management Program.

1. Subaqueous Lands Management. According to the Certification, the applicant has no plans for any activity under the license renewal that would require a permit from the Commission (page 12, Table 2, item b). The Marine Resources Commission indicates that there are no activities, present or prospective, at the North Anna Power Station that would require a Marine Resources Commission permit.

2. Coastal Lands Management. According to the Chesapeake Bay Local Assistance Department, the proposed license renewal is not subject to any requirements under the Chesapeake Bay Preservation Act because Louisa County is outside the geographic region subject to the Chesapeake Bay Preservation Act (Virginia Code sections 10.1-2100 <u>et seq.</u>). The Certification indicates that there is no new development applied for under the license renewal. Transmission lines are conditionally exempt from the Act.

3. Wetlands Management. According to the Certification, Dominion Virginia Power does not now conduct, and does not intend to conduct, any alteration of wetlands in the vicinity of the North Anna Power Station (page 12, Table 2, items c.1 and c.2). DEQ's Virginia Water Protection Program indicates that the license renewal will not result in any impacts to wetlands.

4. Point Source Water Pollution Control. DEQ's Virginia Water Protection Program indicates that the license renewal will not result in any impacts to surface waters. The Power Station is subject to an existing Virginia Pollutant Discharge Elimination System permit (No. VA 0052451) (Certification, page 15, Table E-1). According to DEQ's Northern Virginia Regional Office, the Power Station is in compliance with that permit.

5. Non-point Source Water Pollution Control. As with wetlands (item 3 above), the current operation of the North Anna Power Station does not involve any landdisturbing activity, and will not involve it in the future, according to the Certification (page 13, Table 2, item e.1). Accordingly, Virginia's non-point source water pollution control program, the Erosion and Sediment Control Plan requirement, does not apply to this project.

6. Air Pollution Control. According to DEQ's Northern Virginia Regional Office, the North Anna Power Station is in full compliance with its air permits.

#### NUREG-1437, Supplement 7

FEB-27-2002 12:30

NRC/NRR/DSSA/SPLB

P.10/11

J. W. White, Ph.D. February 21, 2002 Page 4

Accordingly, the project is consistent with the Air Pollution Control Program of the Virginia Coastal Resources Management Program.

7. Other Enforceable Programs. As the Certification indicates, the remaining Enforceable Programs of the Virginia Coastal Resources Management Program do not apply to the renewal of the NRC license for the North Anna Power Station. Specifically, the Fisheries Management Program, including the State Tributyltin Regulatory Program, is not applicable to continued operation of the North Anna Power Station. Neither is the Dunes Management Program or the Shoreline Sanitation Program.

#### **Environmental Impacts and Mitigation**

1. Natural Heritage and Wildlife Resources. "Natural heritage resources" are defined as the habitat of rare, threatened, or endangered species of plants and animals, unique or exemplary natural communities, and significant geologic formations, according to the Department of Conservation and Recreation. That Department indicates that natural heritage resources have not been documented as present in the vicinity of the project. In addition, the Department of Conservation and Recreation represents the Department of Agriculture and Consumer Services in commenting on state-listed endangered plant and insect species that might be affected by a project. The continued operation of the North Anna Power Station will not affect protected plant or insect species.

The Department of Conservation and Recreation's Division of Natural Heritage (Christopher Ludwig, telephone 371-6206) should be contacted for an update if a significant amount of time passes before this information is used.

2. Recreation Resources. Continued operation of the North Anna Power Station will not adversely affect any existing or planned recreational facilities. Nor will it affect streams on the National Park Service Nationwide Inventory, Final List of Rivers or potential Virginia Scenic Rivers. The project will not affect any Virginia Byways.

3. Solid and Hazardous Waste Management. The DEQ's Waste Division, Office of Remedial Programs did a cursory review of its data files and found that the North Anna Power Station is listed as a small-quantity generator of hazardous waste, subject to the provisions of Title 40, <u>Code of Federal Regulations</u>, Part 262 (and related provisions in Parts 264, 265, and 268), which are adopted by reference in the <u>Virginia Hazardous</u> <u>Waste Management Regulations</u>. The most recent DEQ inspection of the North Anna Power Station took place in August 1999, according to the DEQ's Northern Virginia

November 2002

FEB-27-2002 12:30

NRC/NRR/DSSA/SPLB

P.11/11

J. W. White, Ph.D. February 21, 2002 Page 5

Regional Office; the inspection revealed that the Station was in compliance with all the requirements applicable to small-quantity generators.

4. Radiological Health Considerations. According to the Department of Health's Radiological Health Program, the Department of Health provides independent verification of this facility's environmental monitoring program for radiological releases. The Department of Health implemented its environmental monitoring program during the pre-operational stage of the facility; the program continues to the present day. There is no indication, in the published annual reports of the monitoring program, of any releases of radiation affecting the environment in the history of the program.

In addition, the applicant has been supportive of the efforts of state and local governments in maintaining an effective State Emergency Response Plan in case of radiological emergencies at the power plant. The Nuclear Regulatory Commission license includes a condition requiring certification of the Plan by the Federal Emergency Management Agency (FEMA); FEMA has certified the Plan.

Thank you for the opportunity to comment on this federal consistency certification.

Sincerely,

Ellie L. Irons Program Manager Office of Environmental Impact Review

Enclosures cc: Derral Jones, DCR Leslie P. Foldesi, VDH Thomas D. Modena, DEQ-DWPC-ORP K. S. Narasimhan, DEQ-DAPC-ODA Terry H. Darton, DEQ-NVRO Jon D. Terry, DEQ-NVRO Brenda K. Winn, DEQ-VWPP R. B. Stagg, MRC Catherine M. Harold, CBLAD Nancy K. O'Brien, Thomas Jefferson PDC C. Lee Linticum, Louisa County Andy Kugler, U.S. NRC

TOTAL P.11

NUREG-1437, Supplement 7



# United States Department of the Interior



FISH AND WILDLIFE SERVICE Ecological Services 6669 Short Lane Gloucester, VA 23061

May 22, 2002

Mr. Christopher Grimes Nuclear Regulatory Commission Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation Washington, D.C. 20555-0001

P.T. Kuo

Re: License Renewal for Surry and North Anna Power Stations, Surry and Louisa Counties, Virginia

Mr. Grimes:

The U.S. Fish and Wildlife Service (Service) has received your request for a list of federally listed or proposed endangered and threatened species and designated critical habitat within the area under evaluation for the Surry and North Anna Power Stations license renewal. This letter is submitted in accordance with provisions of the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). Attached are lists of species with federal status and species of concern that have been documented or may occur in the counties where your project is located. These lists were prepared by this office and are based on information obtained from previous surveys for rare and endangered species.

The Service would like to confirm that any further Section 7 consultation necessary for this project, pursuant to the ESA, will be conducted by personnel of the Chesapeake Bay Field Office in Annapolis, Maryland.

If you have any questions or need further assistance, please contact Mr. Eric Davis of this office at (804) 693-6694, extension 104.

Sincerely,

Karen L. Mayne Supervisor Virginia Field Office

Enclosures

1 1121560147

November 2002

NUREG-1437, Supplement 7

cc: USFWS, Chesapeake Bay Field Office, Annapolis, MD (David Sutherland)

#### SURRY COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>	
<u>BIRDS</u> Haliaeetus leucocephalus <sup>1</sup>	Bald eagle	LT	
<u>PLANTS</u> Aeschynomene virginica	Sensitive joint-vetch	LT	
Species of Concern			
<u>INVERTEBRATES</u> Speyeria diana Stygobromus araeus	Diana fritillary Tidewater interstitial amphipod	G3 G2	

# VASCIII AD DI ANTS

VASCULAR PLANTS		
Carex decomposita	Epiphytic sdege	G3
Chamaecrista fasciculata var. macrosperr	na Marsh senna	G5T2
Desmodium ochroleucum	Creamflower tick-trefoil	G2G3
Rudbeckia heliopsidis <sup>2</sup>	Sun-facing coneflower	G2
Trillium pusillum var. virginianum	Virginia least trillium	G3T2

<sup>1</sup>Nesting occurs in this county; concentrated shoreline use has been documented on the James River.

<sup>2</sup>Surveys needed within 5-miles of Prince George County species location.

#### ISLE OF WIGHT COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT
Spec	eies of Concern	
<u>INVERTEBRATES</u> Caecidotea phreatica Speyeria diana Stygobromus araeus Stygobromus indentatus	Phreatic isopod Diana fritillary Tidewater interstitial amphipod Tidewater amphipod	G1 G3 G2 G2G3
<u>NON-VASCULAR PLANTS</u> Sphagnum cyclophyllum Sphagnum macrophyllum var macrophyllur	Circular leaved peatmoss m Large-leaf peatmoss	G3 G3T3
<u>VASCULAR PLANTS</u> Carex decomposita Litsea aestivalis <sup>1</sup> Trillium pusillum var. virginianum <sup>2</sup>	Epiphytic sedge Pondspice Virginia least trillium	G3 G3 G3T2

<sup>1</sup>Survey may be needed along the Blackwater River. <sup>2</sup>This species has been documented in an adjacent county and may occur in this county.

May 29, 2001 Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

# NUREG-1437, Supplement 7

# PRINCE GEORGE COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>	
<u>BIRDS</u> Haliaeetus leucocephalus <sup>1</sup>	Bald eagle	LT	
VASCULAR PLANTS Aeschynomene virginica	Sensitive joint-vetch	LT	
Species of Concern			
<u>INVERTEBRATES</u> Speyeria diana	Diana fritillary	G3	
<u>VASCULAR PLANTS</u> Chamaecrista fasciculata var. macrosperma Rudbeckia heliopsidis Trillium pusillum var. virginianum <sup>2</sup>	Marsh senna Sun-facing coneflower Virginia least trillium	G5T2 G2 G3T2	

<sup>1</sup>Nesting occurs in this county; concentrated shoreline use has been documented on the James River.

<sup>2</sup>This species has been documented in an adjacent county and may occur in this county.

#### CHARLES CITY COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus <sup>1</sup>	Bald eagle	LT
<u>VASCULAR PLANTS</u> Aeschynomene virginica Helonias bullata <sup>2</sup> Isotria medeoloides <sup>2</sup>	Sensitive joint-vetch Swamp pink Small whorled pogonia	LT LT LT

#### **Species of Concern**

INVERTEBRATES Speyeria diana	Diana fritillary	G3
VASCULAR PLANTS Chamaecrista fasciculata var. macrosperma Eriocaulon parkeri Juncus caesariensis Nuphar sagittifolia Trillium pusillum var. virginianum	Marsh`senna Parker's pipewort New Jersey rush Narrow-leaved spatterdock Virginia least trillium	G5T2 G3 G2 G5T2T3 G3T2

<sup>1</sup>Nesting occurs in this county; concentrated shoreline use has been documented on the James River.

<sup>2</sup>This species has been documented in an adjacent county and may occur in this county.

# CITY OF SUFFOLK, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT

#### **Species of Concern**

INVERTEBRATES Chlorochroa dismalia Speyeria diana Stygobromus araeus Stygobromus indentatus	Dismal Swamp green stink bug Diana fritillary Tidewater interstitial amphipod Tidewater amphipod	G2 G3 G2 G2G3
NON-VASCULAR PLANTS Sphagnum carolinianum	Carolina peatmoss	G3
<u>VASCULAR PLANTS</u> Eriocaulon parkeri Gentiana autumnalis Litsea aestivalis <sup>1</sup> Rhynchospora pallida Trillium pusillum var. virginianum	Parker's pipewort Pine-barren gentian Pondspice Pale beakrush Virginia least trillium	G3 G3 G3 G3 G3T2

<sup>1</sup>Survey may be needed along the Blackwater River.

# CITY OF CHESAPEAKE, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
None listed		
Spe	cies of Concern	
<u>INVERTEBRATES</u> Euphyes dukesi Pseudopolydesmus paludicolous Stygobromus araeus	Scarce swamp skipper A millipede Tidewater interstitial amphipod	G3 G1 G2
<u>NON-VASCULAR PLANTS</u> Sphagnum macrophyllum var. macrophyllu	Im Large-leaf peatmoss	G3T3
<u>VASCULAR PLANTS</u> Trillium pusillum var. virginianum	Virginia least trillium	G3T2

#### CITY OF NEWPORT NEWS, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT

Species of Concern

None documented

August 26, 1999 Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

# LOUISA COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
INVERTEBRATES Alasmidonta heterodon	Dwarf wedgemussel	LE
Species of Concern		
<u>INVERTEBRATES</u> Elliptio lanceolata Lasmigona subviridis	Yellow lance Green floater	G3 G3

February 8, 2001 Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

NUREG-1437, Supplement 7

November 2002

# HANOVER COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT
INVERTEBRATES Alasmidonta heterodon	Dwarf wedgemussel	LE
<u>VASCULAR PLANTS</u> Aeschynomene virginica <sup>1</sup> Isotria medeoloides <sup>1</sup>	Sensitive joint-vetch Small whorled pogonia	LT LT

#### **Species of Concern**

#### **INVERTEBRATES**

Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green floater	G3
Sigara depressa	Virginia Piedmont water boatmen	G1G3
VASCULAR PLANTS		
Chamaecrista fasciculata var. macrosperma	Marsh senna	G5T2

<sup>1</sup>This species has been documented in an adjacent county and may occur in this county.

#### POWHATAN COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT
INVERTEBRATES Pleurobema collina <sup>1</sup>	James spinymussel	LE
Species of Concern		
<u>INVERTEBRATES</u> Lexingtonia subplana	Virginia pigtoe	G1Q
VASCULAR PLANTS Isoetes piedmontana	Piedmont quillwort	G3
	1. N. 1	

<sup>1</sup>This species has been documented in an adjacent county and may occur in this county.

# HENRICO COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

<u>VASCULAR PLANTS</u> Aeschynomene virginica <sup>2</sup>	Sansitive joint vetch	LT	
Helonias bullata	Sensitive joint-vetch Swamp pink		
Isotria medeoloides <sup>3</sup>	Small whorled pogonia	LT	

<u>INVERTEBRATES</u> Fusconaia masoni	Atlantic pigtoe	G2
<u>VASCULAR PLANTS</u> Chamaecrista fasciculata var. macrosperma <sup>1</sup> Juncus caesariensis Trillium pusillum var. virginianum	Marsh senna New Jersey rush Virginia least trillium	G5T2 G2 G3T2

<sup>1</sup>Nesting occurs in this county; concentrated shoreline use has been documented on the James River.

<sup>2</sup>This species has been documented in an adjacent county and may occur in this county.

<sup>3</sup>This species has been documented in an adjacent county and may occur in this county east of I-295.

#### CHESTERFIELD COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	STATUS
<u>BIRDS</u> Haliaeetus leucocephalus <sup>1</sup>	Bald eagle	LT
<u>INVERTEBRATES</u> Alasmidonta heterodon <sup>2</sup>	Dwarf wedgemussel	LE
<u>VASCULAR PLANTS</u> Aeschynomene virginica Rhus michauxii <sup>2</sup>	Sensitive joint-vetch Michaux's sumac	LT LE
Species of Concern		
<u>INVERTEBRATES</u> Elliptio lanceolata Speyeria diana	Yellow lance Diana fritillary	G3 G3
<u>VASCULAR PLANTS</u> Chamaecrista fasciculata var. macrosperma Desmodium ochroleucum Trillium pusillum var virginianum	Marsh senna Creamflower tick-trefoil Virginia least trillium	G5T2 G2G3 G3T2

<sup>1</sup>Nesting occurs in this county; concentrated shoreline use has been documented on the James River.

<sup>2</sup>This species has been documented in an adjacent county and may occur in this county.

# SPOTSYLVANIA COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
INVERTEBRATES Alasmidonta heterodon	Dwarf wedge mussel	LE
VASCULAR PLANTS Isotria medeoloides	Small whorled pogonia	LT

# **Species of Concern**

<u>INVERTEBRATES</u>		
Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green floater	G3
Sigara depressa	Virginia Piedmont water boatmen	G1G3
Speyeria idalia	Regal fritillary	G3
NON-VASCULAR PLANTS		
Sphagnum carolinianum	Carolina peatmoss	G3

#### CAROLINE COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus <sup>1</sup>	Bald eagle	LT
<u>VASCULAR PLANTS</u> Aeschynomene virginica <sup>2</sup> Helonias bullata Isotria medeoloides	Sensitive joint-vetch Swamp pink Small whorled pogonia	LT LT LT

# **Species of Concern**

<u>BIRDS</u> Aimophila aestivalis	Bachman's sparrow	G3
<u>INVERTEBRATES</u> Sigara depressa Stygobromus indentatus	Virginia piedmont water boatman Tidewater amphipod	G1G3 G2G3
VASCULAR PLANTS		
Chamaecrista fasciculata var. macrosperma <sup>2</sup>	Marsh senna	G5T2
Desmodium ochroleucum	Creamflower tick-trefoil	G2G3
Eriocaulan parkeri	Parker's pipewort	G3
Juncus caesariensis	New Jersey rush	G2
Sabatia kennedyana	Plymouth gentian	G3

<sup>1</sup>Nesting occurs in this county; concentrated shoreline use has been documented on the Rappahannock River.

<sup>2</sup>This species has been documented in an adjacent county and may occur in this county.

# ORANGE COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
None documented		
	Species of Concern	
<u>INVERTEBRATES</u> Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green Floater	G3
Speyeria idalia	Regal fritillary	G3

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT
INVERTEBRATES Alasmidonta heterodon <sup>1</sup>	Dwarf wedgemussel	LE
Species of Concern		
<u>INVERTEBRATES</u> Elliptio lanceolata Lasmigona subviridis	Yellow lance Green floater	G3 G3
<u>VASCULAR PLANTS</u> Agalinis auriculata <sup>1</sup>	Earleaf foxglove	G3

#### CULPEPER COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

<sup>1</sup>This species has been documented in an adjacent county and may occur in this county.

# FAUQUIER COUNTY, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT
INVERTEBRATES Alasmidonta heterodon	Dwarf wedgemussel	LE
Spee	cies of Concern	
INVERTEBRATES		
Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green floater	G3
Speyeria idalia	Regal fritillary	G3
Stygobromus spinosus	Blue Ridge Mountain amphipod	G2G3
VASCULAR PLANTS	211 C	
Agalinis auriculata <sup>1</sup>	Earleaf foxglove	G3
Carex polymorpha <sup>1</sup>	Variable sedge	G2G3
Carex schweinitzii <sup>1</sup>	Schweinitz's sedge	G3
Poa paludigena	Bog bluegrass	G3
Pycnanthemum torrei	Torrey's mountain-mint	G2

<sup>1</sup>This species has been documented in an adjacent county and may occur in this county.

#### CITY OF HOPEWELL, VIRGINIA Federally Listed, Proposed, and Candidate Species

SCIENTIFIC NAME	COMMON NAME	<u>STATUS</u>
<u>BIRDS</u> Haliaeetus leucocephalus	Bald eagle	LT

May 21, 2002 Prepared by U.S. Fish and Wildlife Service, Virginia Field Office

NUREG-1437, Supplement 7

E-32

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,<br/>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 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.	
AQUATIC ECOLOGY (FOR PLANTS WITH		WER BASED H	EAT 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.	

<sup>(</sup>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

ISSUE—10 CFR Part 51, Subpart A,		GEIS	_
Appendix B, Table B-1	Category	Sections	Comment
Heat shock	1	4.3.3	North Anna does not dissipate heat using cooling towers.
GROUND	WATER USE AI	ND QUALITY	
Groundwater use conflicts (potable and service water, and dewatering; plants that use >100 gpm)	2	4.8.1.1 4.8.2.1	NAPS 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	North Anna does not dissipate heat using cooling towers.
Groundwater-use conflicts (Ranney wells)	2	4.8.1.4	North Anna does not have or use Ranney wells.
Groundwater quality degradation (Ranney wells)	1	4.8.2.2	North Anna does not have or use Ranney wells.
Groundwater quality degradation (saltwater intrusion)	1	4.8.2.1	North Anna is located inland.
Groundwater quality degradation (cooling ponds in salt marshes)	1	4.8.3	North Anna does not have cooling ponds in salt marshes.
Groundwater quality degradation (cooling ponds at inland sites)	2	4.8.3	North Anna does not use cooling ponds.
Terr		OURCES	
Cooling tower impacts on crops and ornamental vegetation	1	4.3.4	North Anna does not dissipate heat using cooling towers.
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.

ISSUE—10 CFR Part 51, Subpart A, Appendix B, Table B-1	Category	GEIS Sections	Comment
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.
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.