

Appendix E

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
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None listed

Species of Concern

INVERTEBRATES

Euphyes dukesi	Scarce swamp skipper	G3
Pseudopolydesmus paludicolous	A millipede	G1
Stygobromus araeus	Tidewater interstitial amphipod	G2

NON-VASCULAR PLANTS

Sphagnum macrophyllum var. macrophyllum	Large-leaf peatmoss	G3T3
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VASCULAR PLANTS

Trillium pusillum var. virginianum	Virginia least trillium	G3T2
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May 29, 2001

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

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<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

Appendix E

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>INVERTEBRATES</u>		
Alasmidonta heterodon	Dwarf wedgemussel	LE

Species of Concern

<u>INVERTEBRATES</u>		
Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green floater	G3

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

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>BIRDS</u>		
Haliaeetus leucocephalus	Bald eagle	LT
<u>INVERTEBRATES</u>		
Alasmidonta heterodon	Dwarf wedgemussel	LE
<u>VASCULAR PLANTS</u>		
Aeschynomene virginica ¹	Sensitive joint-vetch	LT
Isotria medeoloides ¹	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
<u>VASCULAR PLANTS</u>		
Chamaecrista fasciculata var. macrosperma ¹	Marsh senna	G5T2

¹This 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

Appendix E

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>BIRDS</u>		
Haliaeetus leucocephalus	Bald eagle	LT
<u>INVERTEBRATES</u>		
Pleurobema collina ¹	James spinymussel	LE

Species of Concern

<u>INVERTEBRATES</u>		
Lexingtonia subplana	Virginia pigtoe	G1Q
<u>VASCULAR PLANTS</u>		
Isoetes piedmontana	Piedmont quillwort	G3

¹This species has been documented in an adjacent county and may occur in this county.

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

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>BIRDS</u>		
Haliaeetus leucocephalus ¹	Bald eagle	LT
<u>VASCULAR PLANTS</u>		
Aeschynomene virginica ²	Sensitive joint-vetch	LT
Helonias bullata	Swamp pink	LT
Isotria medeoloides ³	Small whorled pogonia	LT

Species of Concern

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

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

²This species has been documented in an adjacent county and may occur in this county.

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

May 29, 2001

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

Appendix E

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>BIRDS</u>		
Haliaeetus leucocephalus ¹	Bald eagle	LT
<u>INVERTEBRATES</u>		
Alasmidonta heterodon ²	Dwarf wedgemussel	LE
<u>VASCULAR PLANTS</u>		
Aeschynomene virginica	Sensitive joint-vetch	LT
Rhus michauxii ²	Michaux's sumac	LE

Species of Concern

<u>INVERTEBRATES</u>		
Elliptio lanceolata	Yellow lance	G3
Speyeria diana	Diana fritillary	G3
<u>VASCULAR PLANTS</u>		
Chamaecrista fasciculata var. macrosperma	Marsh senna	G5T2
Desmodium ochroleucum	Creamflower tick-trefoil	G2G3
Trillium pusillum var virginianum	Virginia least trillium	G3T2

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

²This 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

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>INVERTEBRATES</u>		
Alasmidonta heterodon	Dwarf wedge mussel	LE
<u>VASCULAR PLANTS</u>		
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
<u>NON-VASCULAR PLANTS</u>		
Sphagnum carolinianum	Carolina peatmoss	G3

April 5, 2001

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

Appendix E

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

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

Species of Concern

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

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

²This 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

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
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None documented

Species of Concern

INVERTEBRATES

Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green Floater	G3
Speyeria idalia	Regal fritillary	G3

March 22, 1999

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

Appendix E

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>BIRDS</u>		
Haliaeetus leucocephalus	Bald eagle	LT
<u>INVERTEBRATES</u>		
Alasmidonta heterodon ¹	Dwarf wedgemussel	LE

Species of Concern

<u>INVERTEBRATES</u>		
Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green floater	G3
<u>VASCULAR PLANTS</u>		
Agalinis auriculata ¹	Earleaf foxglove	G3

¹This 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

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATUS</u>
<u>BIRDS</u>		
Haliaeetus leucocephalus	Bald eagle	LT
<u>INVERTEBRATES</u>		
Alasmidonta heterodon	Dwarf wedgemussel	LE

Species of Concern

<u>INVERTEBRATES</u>		
Elliptio lanceolata	Yellow lance	G3
Lasmigona subviridis	Green floater	G3
Speyeria idalia	Regal fritillary	G3
Stygobromus spinosus	Blue Ridge Mountain amphipod	G2G3
<u>VASCULAR PLANTS</u>		
Agalinis auriculata ¹	Earleaf foxglove	G3
Carex polymorpha ¹	Variable sedge	G2G3
Carex schweinitzii ¹	Schweinitz's sedge	G3
Poa paludigena	Bog bluegrass	G3
Pycnanthemum torrei	Torrey's mountain-mint	G2

¹This 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

Appendix E

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<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

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)^(a) 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
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 COOLING TOWER BASED HEAT 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.

(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, Appendix B, Table B-1	Category	GEIS Sections	Comment
Heat shock	1	4.3.3	North Anna does not dissipate heat using cooling towers.
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	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.
TERRESTRIAL RESOURCES			
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.