

January 31, 2006

10 CFR 54

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop: OWFN P1-35
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of)	Docket Nos. 50-259
Tennessee Valley Authority)	50-260
		50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - UNITS 1, 2, AND 3 LICENSE RENEWAL APPLICATION (LRA) - ANNUAL UPDATE (TAC NOS. MC1704, MC1705, AND MC1706)

By letter dated December 31, 2003, TVA submitted, for NRC review, an application pursuant to 10 CFR 54 to renew the operating licenses for the Browns Ferry Nuclear Plant (BFN), Units 1, 2, and 3.

TVA is required by 10 CFR 54.21(b) to report changes annually to the BFN current licensing basis that materially affect the contents of the LRA, including the Updated Final Safety Analysis Report supplement.

TVA has completed a review of the pertinent documentation and identified changes which materially affect the contents of the BFN LRA. The enclosure to this letter contains the changes to the BFN LRA.

U.S. Nuclear Regulatory Commission
Page 2
January 31, 2006

If you have any questions regarding this information, please contact Ken Brune, Browns Ferry License Renewal Project Manager, at (423) 751-8421.

I declare under penalty of perjury that the foregoing is true and correct. Executed on this 31st day of January, 2006.

Sincerely,

Original signed by

Brian O'Grady

Enclosure:

cc: See page 3

U.S. Nuclear Regulatory Commission
Page 3
January 31, 2006

Enclosure

cc (Enclosure):

State Health Officer
Alabama Department of Public Health
RSA Tower - Administration
Suite 1552
P.O. Box 303017
Montgomery, Alabama 36130-3017

Chairman
Limestone County Commission
310 West Washington Street
Athens, Alabama 35611

(Via NRC Electronic Distribution)

Enclosure

cc (Enclosure):

U.S. Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, Georgia 30303-8931

Mr. Stephen J. Cahill, Branch Chief
U.S. Nuclear Regulatory Commission
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, Georgia 30303-8931

NRC Senior Resident Inspector
Browns Ferry Nuclear Plant
10833 Shaw Road
Athens, Alabama 35611-6970

NRC Unit 1 Restart Senior Resident Inspector
Browns Ferry Nuclear Plant
10833 Shaw Road
Athens, Alabama 35611-6970

cc: continued page 4

U.S. Nuclear Regulatory Commission
Page 4
January 31, 2006

cc: (Enclosure)

Margaret Chernoff, Project Manager
U.S. Nuclear Regulatory Commission
(MS 08G9)
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852-2739

Eva A. Brown, Project Manager
U.S. Nuclear Regulatory Commission
(MS 08G9)
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852-2739

Yaira K. Diaz-Sanabria, Project Manager
U.S. Nuclear Regulatory Commission
(MS 011F1)
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852-2739

Ramachandran Subbaratnam, Project Manager
U.S. Nuclear Regulatory Commission
(MS 011F1)
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852-2739

ENCLOSURE

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT (BFN)
UNITS 1, 2, AND 3
LICENSE RENEWAL APPLICATION (LRA),

ANNUAL UPDATE

(SEE ATTACHED)

**BROWNS FERRY NUCLEAR PLANT (BFN)
UNITS 1, 2, AND 3
LICENSE RENEWAL APPLICATION (LRA) ,**

ANNUAL UPDATE

By letter dated December 31, 2003, TVA submitted, for NRC review, an application pursuant to 10 CFR 54, to renew the operating licenses for the Browns Ferry Nuclear Plant (BFN), Units 1, 2, and 3.

TVA is required by 10 CFR 54.21(b) to report changes annually to the BFN current licensing basis that materially affect the contents of the LRA, including the Updated Final Safety Analysis Report supplement.

Listed below are the changes which materially affect content of the BFN License Renewal Application.

CONDENSATE AND DEMINERALIZED WATER SYSTEM (002)

Plant modification removed components from scope on drawing 1-47E1847-4-LR. Therefore, drawing 1-47E1847-4-LR is no longer a Condensate and Demineralized Water System boundary drawing and is deleted from Section 2.3.4.2 on page 2.3-113. There are no changes to the component types, materials, or environments for this system as a result of these changes.

AUXILIARY BOILER SYSTEM (012)

Plant modification deleted cast iron valves. This deletes "Cast iron and cast iron alloy" from the materials listed in Section 3.3.2.1.1 on page 3.3-6 and also deletes the following line items from Table 3.3.2.1 on page 3.3-65:

Table 3.3.2.1: Auxiliary Boiler System (012) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Valves	PB	Cast Iron and Cast Iron Alloy	Air/gas (internal) - moist air	Loss of material due to selective leaching.	Selective Leaching of Materials Program (B.2.1.30)	V.D2.3-b	None	F, 4
Valves	PB	Cast Iron and Cast Iron Alloy	Air/gas (internal) - moist air	Loss of material due to crevice, general, and pitting corrosion.	One-Time Inspection Program (B.2.1.29)	V.D2.3-b	None	F, 2
Valves	PB	Cast Iron and Cast Iron Alloy	Inside Air (external)	Loss of material due to general corrosion.	System Monitoring Program (B.2.1.39)	V.E.1-b	None	F, 2

HIGH PRESSURE FIRE PROTECTION SYSTEM (026)

Plant modifications added Cast Austenitic Stainless Steel (CASS) material for Strainers and stainless steel material for Restricting Orifices. This adds the following line items and new Note D to Table 3.3.2.6 as shown below:

Table 3.3.2.6: High Pressure Fire Protection System (026) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Restricting Orifice	PB	Stainless Steel	Inside Air (external)	None	None	VII.I.1 -b	None	F, 3
Restricting Orifice	PB	Stainless Steel	Raw Water (internal)	Loss of material due to biofouling, MIC, crevice, and pitting corrosion.	Fire Water System Program (B.2.1.24)	VII.G.6 -a	3.3.1.21	D, 1
Strainers	PB	Stainless Steel-CASS	Inside Air (external)	None	None	VII.I.1 -b	None	F, 3

Table Notes:

Industry Standard Notes:

Note D Component is different, but consistent with NUREG-1801 item for material, environment, and aging effect. The AMP takes some exceptions to NUREG-1801.

CONTROL AIR SYSTEM (032)

Plant modification added components in scope on drawings 1-47E1847-7-LR, 1-47E1847-8-LR, 2-47E2847-8-LR, and 3-47E3847-8-LR. Therefore, these drawings need to be added to the Control Air System boundary drawing list in Section 2.3.3.10 on page 2.3-56. There are no changes to the component types, materials, or environments for this system as a result of these changes.

EMERGENCY EQUIPMENT COOLING WATER SYSTEM (EECW) (067)

Plant modification added components in scope to drawing 1-47E1847-6-LR. Therefore, drawing 1-47E1847-6-LR is a new Emergency Equipment Cooling Water System boundary drawing and is being added to Section 2.3.3.20 on page 2.3-77. There are no changes to the component types, materials, or environments for this system as a result of these changes.

REACTOR WATER CLEANUP SYSTEM (069)

Plant modification deleted carbon steel valves from RCPB. This deletes the following line items from Table 3.3.2.21 on page 3.3-205:

Table 3.3.2.21: Reactor Water Cleanup System (069) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Valves - RCPB	PB	Carbon and Low Alloy Steel	Inside Air (external)	None	None	IV.C1.3-a	None	G, 5
Valves - RCPB	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material due to crevice, general, galvanic, and pitting corrosion.	Chemistry Control Program (B.2.1.5) One-Time Inspection Program (B.2.1.29)	IV.C1.3-a	None	H, 4
Valves - RCPB	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Crack initiation/growth due to fatigue.	None	IV.C1.3-d	3.1.1.1	A

REACTOR BUILDING CLOSED COOLING WATER SYSTEM (070)

Plant modification added stainless steel as material type for heat exchangers. This adds the following line item to Table 3.3.2.22 as shown below:

Table 3.3.2.22: Reactor Building Closed Cooling Water System (070) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG -1801 Vol. 2 Item	Table 1 Item	Notes
Heat Exchangers	PB	Stainless Steel	Raw Water (internal)	Loss of material due to biofouling, MIC, crevice, and pitting corrosion.	Open-Cycle Cooling Water System Program (B.2.1.17)	None	None	J, 2
Heat Exchangers	PB	Stainless Steel	Treated Water (internal)	Loss of material due to crevice and pitting corrosion	Closed-Cycle Cooling Water System Program (B.2.1.18)	None	None	J, 2

RADIATION MONITORING SYSTEM (090)

Plant modification added copper alloy as material type for tubing. This adds the following line items to Table 3.3.2.31 as shown below:

Table 3.3.2.31: Radiation Monitoring System (090) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG -1801 Vol. 2 Item	Table 1 Item	Notes
Tubing	PB	Copper Alloy	Inside Air (external)	None	None	V.E.1-b	None	F, 2
Tubing	PB	Copper Alloy	Air/Gas (internal)	None	None	None	None	J, 2

LICENSE RENEWAL BOUNDARY DRAWINGS

License renewal boundary drawings have been maintained to reflect the current license renewal boundaries such that they are consistent with the LRA, RAI responses, change documentation, etc. Examples of some of the administrative changes made to the boundary drawings include:

- The reference drawing interface arrows for piping runs are corrected as interfaces between drawings change.
- Other valves and fittings are added on drawings; however, these changes do not impact the portion of the drawings that are in the license renewal boundary scope.
- Changes in specific BFN Unit IDs (e.g., valve numbers are updated for a commodity that is already in scope.).
- Leak off / drain valves are removed from the license renewal boundary drawings when they were found to be removed from the system.
- Components were added in scope on drawings but these changes did not add additional component types, materials, or environments that resulted in system changes that were not already contained in the LRA.

These drawing changes do not materially affect the contents of the LRA.

TIME LIMITED AGING ANALYSIS

Some of the calculations associated with Section 4.3.4, Effects of Reactor Coolant Environment on Fatigue Life of Components and Piping (Generic Safety Issue 190), were revised to remedy errors found in the F_{en} formulas. As a result of revised calculations, several of the line items in Table 4.3.4.1 on page 4.3-8 have been revised. Replace existing Table 4.3.4.1 with revised Table 4.3.4.1 shown below:

Table 4.3.4.1 Summary of Environmental Fatigue Calculations for Browns Ferry Nuclear Plant

No.	Component	Material	CUF 40-Year Design	CUF 60-Year*	Overall Environmental Multiplier	Environmental CUF -60-Year
1	Reactor Vessel Shell and Lower Head	SA-302 (Low Alloy Steel)	0.032	0.0003	25.09	0.008
2	Reactor Vessel Feedwater Nozzle	SA-508 (Low Alloy Steel)	0.700	0.095	10.50	0.998
3	Reactor Recirculation Piping	SA-358 Type 304 (Stainless Steel)	0.397	0.791	5.29	4.181
	Reactor Recirculation Outlet Nozzle	SA-508 Class II (Low Alloy Steel)	0.045	0.068	14.67	0.996
	Reactor Recirculation Inlet Nozzle	SA-508 Class II (Low Alloy Steel)	0.206	0.104	9.58	0.995
4	Core Spray Nozzle	Low Alloy Steel	0.073	0.062	16.03	0.991
	Core Spray Nozzle Safe End	Stainless Steel	0.006	0.005	15.35	0.083

No.	Component	Material	CUF 40-Year Design	CUF 60-Year*	Overall Environmental Multiplier	Environmental CUF -60-Year
5	RHR Return Line Class 1 Piping	SA-358 Type 304 (Stainless Steel)	0.032	0.042	15.35	0.644
6	Feedwater Line Class 1 Piping	SA-106 Grade B (Carbon Steel)	0.427	0.939	1.97	1.850

* The 60-year CUF values were calculated using anticipated cycles and removing analysis conservatisms.

UNIT 1 PERIODIC INSPECTION PROGRAM

In Enclosure 2 of the TVA Letter to the NRC dated December 20, 2005, TVA committed to revising the Section 3 tables for the piping/fittings included in scope of the Unit 1 Periodic Inspection Program. The following provides the line items to be added to the Section 3 tables for the various systems.

MAIN STEAM SYSTEM (01)

The following line items and Notes are added to Table 3.4.2.1 for the Unit 1 Periodic Inspection Program:

Table 3.4.2.1: Main Steam System (01) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

9 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

FEEDWATER SYSTEM (03)

The following line items and Notes are added to Table 3.4.2.3 for the Unit 1 Periodic Inspection Program:

Table 3.4.2.3: Feedwater System (03) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

7 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM (23)

The following line items and Notes are added to Table 3.3.2.3 for the Unit 1 Periodic Inspection Program:

Table 3.3.2.3: Residual Heat Removal Service Water System (23) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Fittings (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9

Table Notes:

Plant Specific Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credit.

Plant Specific Notes:

9 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

RAW COOLING WATER SYSTEM (24)

The following line items and Notes are added to Table 3.3.2.4 for the Unit 1 Periodic Inspection Program:

Table 3.3.2.4: Raw Cooling Water System (24) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 10
Fittings (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 10
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 10
Piping (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 10

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credit.

Plant Specific Notes:

10 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

HIGH PRESSURE FIRE PROTECTION SYSTEM (26)

The following line items and Notes are added to Table 3.3.2.6 for the Unit 1 Periodic Inspection Program:

Table 3.3.2.6: High Pressure Fire Protection System (26) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Fittings (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credit.

Plant Specific Notes:

9 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

EMERGENCY EQUIPMENT COOLING WATER SYSTEM (67)

The following line items and Notes are added to Table 3.3.2.20 for the Unit 1 Periodic Inspection Program:

Table 3.3.2.20: Emergency Equipment Cooling Water System (67) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5
Fittings (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5
Piping (Unit 1 Only)	PB	Stainless Steel	Raw Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credit.

Plant Specific Notes:

5 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

REACTOR BUILDING CLOSED COOLING WATER SYSTEM (70)

The following line items and Notes are added to Table 3.3.2.22 for the Unit 1 Periodic Inspection Program:

Table 3.3.2.22: Reactor Building Closed Cooling Water System (70) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 5

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

5 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

REACTOR CORE ISOLATION COOLING SYSTEM (71)

The following line items and Notes are added to Table 3.3.2.23 for the Unit 1 Periodic Inspection Program:

Table 3.3.2.23: Reactor Core Isolation Cooling System (71) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

8 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

HIGH PRESSURE COOLANT INJECTION SYSTEM (73)

The following line items and Notes are added to Table 3.2.2.3 for the Unit 1 Periodic Inspection Program:

Table 3.2.2.3: High Pressure Coolant Injection System (73) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

9 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

RESIDUAL HEAT REMOVAL SYSTEM (74)

The following line items and Notes are added to Table 3.2.2.4 for the Unit 1 Periodic Inspection Program:

Table 3.2.2.4: Residual Heat Removal System (74) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 7

Table Notes:

Plant Specific Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

7 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

CORE SPRAY SYSTEM (75)

The following line items and Notes are added to Table 3.2.2.5 for the Unit 1 Periodic Inspection Program:

Table 3.2.2.5: Core Spray System (75) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 9

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

9 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.

CONTROL ROD DRIVE SYSTEM (85)

The following line items and Notes are added to Table 3.3.2.29 for the Unit 1 Periodic Inspection Program:

Table 3.3.2.29: Control Rod Drive System (85) - Summary of Aging Management Evaluation

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Program	NUREG - 1801 Vol. 2 Item	Table 1 Item	Notes
Fittings (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8
Fittings (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8
Piping (Unit 1 Only)	PB	Carbon and Low Alloy Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8
Piping (Unit 1 Only)	PB	Stainless Steel	Treated Water (internal)	Loss of material	Unit 1 Periodic Inspection Program (B.2.1.42)	None	None	E, 8

Table Notes:

Industry Standard Notes:

Note E Consistent with NUREG-1801 item for material, environment, and aging effect, a different AMP is credited.

Plant Specific Notes:

8 Only specific to locations identified in TVA letter to the NRC concerning Unit 1 Lay-up Program dated May 18, 2005.