

Virgil C. Summer Nuclear Station
Database AMR Query

Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
AC	AC	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AC-a See Note A-AC-b	V.C.1-a, V.C.1.2	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AC	AC	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AC-c See Note A-AC-d	V.C.1-a, V.C.1.2	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AC	AC	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-AC-e See Note A-AC-f	V.C.1-a, V.C.1.2	T.2-03, T.2-05	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
AC	AC	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AC-a See Note A-AC-b	V.C.1-a, V.C.1.1	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AC	AC	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AC-c See Note A-AC-d	V.C.1-a, V.C.1.1	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the

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														attributes of the credited activity in effectively managing aging during the period of extended operation.
AC	AC	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-AC-e See Note A-AC-f	V.C.1-a, V.C.1.1	T.2-03, T.2-05	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAA-1A/B, -2A/B-AH) - RBCUs	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-a, See Note A-AH-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Air Handling Units (XAA-1A/B, -2A/B-AH) - RBCUs	PB	Carbon Steel	Ventilation	Boric Acid Corrosion (Aggressive Chemical Attack); Galvanic Corrosion, General Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, MIC and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAH-12A/B-AH) - Control Room	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. For the aging effect, carbon steel and galvanized steel have similarities. The material, environment, aging

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														effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Air Handling Units (XAH-12A/B-AH) - Control Room	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general, MIC and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAH-13A/B-AH) - Relay Room	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. For the aging effect, carbon steel and galvanized steel have similarities. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Air Handling Units (XAH-13A/B-AH) - Relay Room	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general, MIC and pitting corrosion

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
								Systems Inspections						are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAH-24A/B-AH) - Battery Room/Charging Room	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. For the aging effect, carbon steel and galvanized steel have similarities. The material, environment, aging effect requiring management and the credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Air Handling Units (XAH-24A/B-AH) - Battery Room/Charging Room	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general, MIC and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Plenums (FH Building and CR Emergency Filter Plenums)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. For the aging effect, carbon steel and galvanized steel have

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														similarities. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Air Plenums (FH Building and CR Emergency Filter Plenums)	PB	Carbon Steel	Ventilation	General Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a, VII.F1.1.1	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, MIC and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Headers	PB	Copper	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-AH-m, See Note A-AH-n	VII.C1.1-a, VII.C1.1.1	T.3-17, T.3-29	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. VCSNS determined that loss of material due to biofouling is not an aging effect requiring management for this component/component type. Also, loss of material will be managed by the Service Water System Reliability and In-Service Testing Program, where GALL references "Open Cycle Cooling Water System" and "Selective Leaching of Materials." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Headers	PB	Copper	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-c	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Tubes	PB, HT	Copper	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-AH-m, See Note A-AH-n	VII.C1.1-a, VII.C1.1.1	T.3-17, T.3-29	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. VCSNS determined that loss of material will be managed by the Service Water System Reliability and In-Service Testing Program, where the GALL references "Open Cycle Cooling Water System" and "Selective Leaching of Materials." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Tubesheets	PB	Galvanized Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-a, See Note A-AH-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														meeting the intent of the pertinent GALL program.
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Tubesheets	PB	Galvanized Steel	Ventilation	Boric Acid Corrosion (Aggressive Chemical Attack); Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general, MIC and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAH-12A/B, -13A/B, -24A/B-AH) - Fins	HT	Copper	Ventilation	Galvanic Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Preventive Maintenance Activities - Ventilation Systems Inspections	See Notes A-AH-h, A-AH-ii	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAH-12A/B, -13A/B, -24A/B-AH) - Tubes	PB, HT	Copper	Ventilation	Galvanic Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Preventive Maintenance Activities - Ventilation Systems Inspections	See Notes A-AH-h, A-AH-ii	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAH-12A/B, -13A/B, -24A/B-AH) - Headers	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Cooling Coils (XAH-12A/B, -13A/B, -24A/B-AH) - Headers	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-AH-o, See Note A-AH-p	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will manage loss of material and cracking for this component/component type, where the GALL item references "Closed Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAH-12A/B, -13A/B, -24A/B-AH) - Tubes	PB, HT	Copper	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-AH-o, See Note A-AH-p	N/A	N.3-28	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
AH	AH	Ductwork	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical	Loss of Material	Boric Acid Corrosion	See Note A-AH-k, See	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. For the aging

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						Attack)		Surveillances	Note A-AH-I					effect, carbon steel and galvanized steel have similarities. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Ductwork	PB	Galvanized Steel	Ventilation	None Identified	None Identified	None Required	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a	N.3-03	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Ductwork	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-02	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Ductwork	PB	Stainless Steel	Ventilation	None Identified	None Identified	None Required	See Note A-AH-j	VII.F1.4-a	N.3-02	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Ductwork (fan housings and plenum housings)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-I	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a

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														detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Ductwork (fan housings and plenum housings)	PB	Carbon Steel	Ventilation	General Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a, VII.F1.1.1	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, MIC and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Ductwork (Flexible Connections)	PB	Hypalon	Reactor Building	Radiation Embrittlement, Thermal Embrittlement	Cracking	Inspections for Mechanical Components	See Note A-AH-d	VII.F1.1-b, VII.F1.1.3	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
AH	AH	Ductwork (Flexible Connections)	PB	Hypalon	Ventilation	None Identified	None Identified	None Required	See Note A-AH-d See Note A-AH-r	VII.F1.1-b	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Ductwork (Flexible Connections)	PB	Neoprene	Sheltered	Radiation Embrittlement, Thermal Embrittlement	Cracking	Inspections for Mechanical Components	See Note A-AH-e	VII.F1.1-b, VII.F1.1.3	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
AH	AH	Ductwork (Flexible	PB	Neoprene	Ventilation	None Identified	None Identified	None Required	See Note A-	VII.F1.1-b	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Connections)							AH-e See Note A-AH-r					Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Ductwork (XHD- Exhaust Air Relief Heads)	PB	Galvanized Steel	Ventilation	None Identified	None Identified	None Required	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a	N.3-03	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Ductwork (XHD- Exhaust Air Relief Heads)	PB	Galvanized Steel	Yard	None Identified	None Identified	None Required	See Note A-AH-q	VII.F1.1-a	N.3-03	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Expansion Joints, Mechanical (expansion boot)	PB	Rubber	Reactor Building	Radiation Embrittlement, Thermal Embrittlement	Cracking	Inspections for Mechanical Components	See Note A-AH-d	VII.F1.1-b, VII.F1.1.3	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
AH	AH	Expansion Joints, Mechanical (expansion boot)	PB	Rubber	Ventilation	None Identified	None Identified	None Required	See Note A-AH-d See Note A-AH-r	VII.F1.1-b	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Expansion Joints, Mechanical (retaining rings)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-a, See Note A-AH-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Expansion Joints, Mechanical (XEJ5001-5005-AH)	PB	Hypalon	Reactor Building	Radiation Embrittlement, Thermal Embrittlement	Cracking	Inspections for Mechanical Components	See Note A-AH-d	VII.F1.1-b, VII.F1.1.3	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Expansion Joints, Mechanical (XEJ5001-5005-AH)	PB	Hypalon	Ventilation	None Identified	None Identified	None Required	See Note A-AH-d See Note A-AH-r	VII.F1.1-b	T.3-02	Yes, plant specific	No	VII.F1.1-b addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Heating Coils (XHC-2A/B, -3A/B, -14A/B-AH)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. For the aging effect, carbon steel and galvanized steel have similarities. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Heating Coils (XHC-2A/B, -3A/B, -14A/B-AH)	PB	Galvanized Steel	Ventilation	None Identified	None Identified	None Required	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a	N.3-03	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Pipe and Fittings (Nuclear Sampling)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-02	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Pipe and Fittings - RBCU Cooling Coil Manifold	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-AH-m, See Note A-AH-n	VII.C1.1-a, VII.C1.1.1	T.3-17	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. VCSNS determined that loss of material due to biofouling is not an aging effect requiring management for this component/component type. Also, loss of material will be managed by the Service Water System Reliability and In-Service Testing Program where the GALL references "Open Cycle Cooling Water System" and "Selective Leaching of Materials." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
AH	AH	Pipe and Fittings - RBCU Cooling Coil Manifold	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-a, See Note A-AH-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
AH	AH	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-02	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-AH-k, See Note A-AH-l	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Tube & Tube Fittings	PB	Stainless Steel	Ventilation	None Identified	None Identified	None Required	See Note A-AH-j	VII.F1.4-a	N.3-02	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Valves (Body Only) - XPR- duct pressure relief valves	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-02	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Valves (Body Only) - XPR- duct pressure relief valves	PB	Stainless Steel	Ventilation	None Identified	None Identified	None Required	See Note A-AH-j	VII.F1.4-a	N.3-02	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Valves (Body Only) (XVB-1A, -2A, -3A/B, -4A/B-AH)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-k, See Note A-AH-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AH	AH	Valves (Body Only) (XVB-1A/B, -2A/B, -3A/B, -4A/B-AH)	PB	Carbon Steel	Ventilation	None Identified	None Identified	None Required	See Note A-AH-f, See Note A-AH-g	VII.F1.1-a	N.3-03	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
AH	AH	Valves (Body Only) (XVB-1B, -2B-AH)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AH-a, See Note A-AH-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AS	AS	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-AS-a See Note A-AS-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for these items. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AS	AS	Pipe and Fittings	PB	Carbon Steel	Treated	Crevice Corrosion,	Loss of Material	Chemistry	See Note A-	VIII.B1.1-a	T.4-07	No	Yes	GALL Item No. VIII.B1.1-a addresses piping

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
					Water	Galvanic Corrosion, General Corrosion, Pitting Corrosion		Program	AS-c See Note A-AS-d					and fittings. The material, environment, aging effect/mechanisms requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect/mechanisms and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AS	AS	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AS-a See Note A-AS-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AS	AS	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-AS-c See Note A-AS-d	VIII.B1.2-a, VIII.B1.2.1	T.4-07	No	Yes	GALL Item Nos. VIII.B1.2-a and VIII.B1.2.1 address valves, and body and bonnet, respectively. The material, environment, aging effect/mechanisms requiring management, and the credited program for this component/component type are consistent with the identified GALL items which have the same material, environment, aging effect/mechanisms and credited program. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AS	AS	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X	V.C.1-b, V.C.1.1	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in TR00160-010, Attachment X.
AS	AS	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-AS-e See Note A-AS-f	V.A.4-a, V.A.4.1	N.4-05	No	Partial	GALL Item Nos. V.A.4-a and V.A.4.1 address valves, and body and bonnet, respectively. Except as noted, the AMR results for this component/component type are consistent with the identified GALL items in material, aging effect/mechanism and credited program. Relative to the environment, the identified GALL items reference chemically treated borated water, while the component/component type AMR results consider treated water. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BD	BD	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BD-a, See Note A-BD-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BD	BD	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BD-c, See Note A-BD-d	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														same material, environment, aging effect, and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BD	BD	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-BD-e, See Note A-BD-f	VIII.F.1-b, VIII.F.1.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.F.1-b addresses Steam Generator Blowdown System piping and fittings. VCSNS determined that the Chemistry Program will manage loss of material for this component/component type where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BD	BD	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BD-a, See Note A-BD-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BD	BD	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BD-c, See Note A-BD-d	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BD	BD	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-BD-e, See Note A-BD-f	VIII.F.2-b, VIII.F.2-1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.F.2-b addresses Steam Generator Blowdown System valve bodies. VCSNS determined that the Chemistry Program will manage loss of material and cracking for this component/component type where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Condensers (XEV0008-CN1, XEV0008-CN2), Recycle Evaporator - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BR-a, See Note A-BR-b	VII.A3.4-b, VII.A3.4.2	T.3-14	No	Yes	VII.A3.4-b addresses Spent Fuel Pool Cooling and Cleanup heat exchangers. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
BR	BR	Condensers (XEV0008-CN1, XEV0008-CN2), Recycle Evaporator - Channel Head (nozzles)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.A3.4-a, VII.A3.4.2	T.3-15	No	Partial	VII.A3.4-a addresses Spent Fuel Pool Cooling and Cleanup heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for carbon steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System". The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. Certain aging effects not addressed by this GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Condensers (XEV0008-CN1, XEV0008-CN2), Recycle Evaporator - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Condensers (XEV0008-CN1, XEV0008-CN2), Recycle Evaporator - Tubesheet	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Heat Exchanger (XEV0008-HE2), Recycle Evaporator - Shell	PB	Carbon Steel/Stainless Steel Combination	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BR-a, See Note A-BR-b	VII.A3.4-b, VII.A3.4.1	T.3-14	No	Yes	VII.A3.4-b addresses Spent Fuel Pool Cooling and Cleanup heat exchangers. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BR	BR	Heat Exchanger (XEV0008-HE2), Recycle Evaporator - Shell (nozzles)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.A3.4-a, VII.A3.4.1	T.3-15	No	Partial	VII.A3.4-a addresses Spent Fuel Pool Cooling and Cleanup heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for carbon steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System". The material, environment, and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Heat Exchanger (XEV0008-HE2), Recycle Evaporator - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Heat Exchanger (XEV0008-HE2), Recycle Evaporator - Tubesheet	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Heat Exchanger (XHE0021), Recycle Evap. Concentrates Sample - Manifolds	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-e, See Note A-BR-f	V.A.4-a, V.A.4.1	N.3-06	No	Yes	V.A.4-a addresses Containment Spray System components. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effects and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BR	BR	Heat Exchanger (XHE0021), Recycle Evap. Concentrates	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Sample - Manifolds				Cracking (SCC)								consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Heat Exchanger (XHE0021), Recycle Evap. Concentrates Sample - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BR-a, See Note A-BR-b	VII.A3.4-b, VII.A3.4.1	T.3-14	No	Yes	VII.A3.4-b addresses Spent Fuel Pool Cooling and Cleanup heat exchangers. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BR	BR	Heat Exchanger (XHE0021), Recycle Evap. Concentrates Sample - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.A3.4-a, VII.A3.4.1	T.3-15	No	Partial	VII.A3.4-a addresses Spent Fuel Pool Cooling and Cleanup heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for carbon steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System". The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation.
BR	BR	Heat Exchanger (XHE0021), Recycle Evap. Concentrates Sample - Tubes	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-e, See Note A-BR-f	V.A.4-a, V.A.4.1	N.3-06	No	Yes	V.A.4-a addresses Containment Spray System components. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effects and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BR	BR	Heat Exchanger (XHE0021), Recycle Evap. Concentrates Sample - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
BR	BR	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-e, See Note A-BR-f	V.A.4-a, V.A.4.1	N.3-06	No	Yes	V.A.4-a addresses Containment Spray System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BR	BR	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-BR-b	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Pipe and Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-BS-a	V.C.1-b	N.3-11	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010 Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-BS-b	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Pipe and Fittings	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-BS-c	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Tube & Tube Fittings	PB	Carbon Steel	Air-Gas	Galvanic Corrosion, General Corrosion	Loss of Material	Service Air System Inspection	See Note A-BS-d See Note A-BS-f	VII.H2.3-a, VII.H2.3.1	N.3-14	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, except that VCSNS determined that loss of material due to galvanic corrosion is an additional applicable aging effect and loss of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material due to crevice and pitting corrosion are not applicable aging effects. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
BS	BS	Tube & Tube Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-BS-e See Note A-BS-g	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BS	BS	Tube & Tube Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-BS-a	V.C.1-b	N.3-11	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010 Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-BS-b	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Valves (Body Only)	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-BS-a	V.C.1-b	N.3-11	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010 Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-BS-b	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BS	BS	Valves (Body Only)	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-BS-c	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Flex Hose	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Flex Hose	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CC-c See Note A-CC-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	RC	Heat Exchangers (MPP0043A/B/C-HE2), Low. Bearing Oil Cooler - Tubes	PB	Copper-Nickel	Oil	None Identified	None Identified	None Required	See Note A-CC-v	N/A	N.2-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	RC	Heat Exchangers (MPP0043A/B/C-HE2), Low. Bearing Oil Cooler - Tubes	PB	Copper-Nickel	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-CC-q See Note A-CC-r	VII.C1.3-a, VII.C1.3.1	N.3-28	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components, with microbiologically induced corrosion and biofouling assumed to be a concern only in the raw water environment. Loss of material due to selective leaching was determined not to be an aging effect for this component material-environment combination at VCSNS. Additional aging effects requiring evaluation for VCSNS includes heat exchanger fouling due to particulates and loss of material due to erosion-corrosion. Also, rather than the Open-Cycle Cooling Water System AMP and the Selective Leaching of Materials AMP, all of the applicable aging effects, are managed by the Chemistry Program (which is consistent with GALL XI.M2 but not listed for this GALLitem) and the Heat Exchanger Inspections. The component/component type aging is managed by a program/activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CC	RC	Heat Exchangers (MPP0043A/B/C-HE1), Upp. RCP Mot. Oil Cooler - Tubes	PB	Copper-Nickel	Oil	None Identified	None Identified	None Required	See Note A-CC-v	N/A	N.2-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	RC	Heat Exchangers (MPP0043A/B/C-HE1), Upp. RCP Mot. Oil Cooler - Tubes	PB	Copper-Nickel	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-CC-q See Note A-CC-r	VII.C1.3-a, VII.C1.3.1	N.3-28	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components, with microbiologically induced corrosion and biofouling assumed to be a concern only in the raw water environment. Loss of material due to selective leaching was determined not to be an aging effect for this component material-environment combination at VCSNS. Additional aqinq effects requiring evaluation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														for VCSNS includes heat exchanger fouling due to particulates and loss of material due to erosion-corrosion. Also, rather than the Open-Cycle Cooling Water System AMP and the Selective Leaching of Materials AMP, all of the applicable aging effects, are managed by the Chemistry Program (which is consistent with GALL XI.M2 but not listed for this GALLitem) and the Heat Exchanger Inspections. The component/component type aging is managed by a program/activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CC	RC	Heat Exchangers (MPP0043A/B/C-HE1), Upp. RCP Mot. Oil Cooler - Tubesheets	PB	Copper-Nickel	Oil	None Identified	None Identified	None Required	See Note A-CC-v	N/A	N.2-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	RC	Heat Exchangers (MPP0043A/B/C-HE1), Upp. RCP Mot. Oil Cooler - Tubesheets	PB	Copper-Nickel	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program, Heat Exchanger Inspections	See Note A-CC-q See Note A-CC-r	VII.C1.3-a, VII.C1.3.1	N.3-28	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components, with microbiologically induced corrosion and biofouling assumed to be a concern only in the raw water environment. Loss of material due to selective leaching was determined not to be an aging effect for this component material-environment combination at VCSNS. Additional aging effects requiring evaluation for VCSNS includes heat exchanger fouling due to particulates and loss of material due to erosion-corrosion. Also, rather than the Open-Cycle Cooling Water System AMP and the Selective Leaching of Materials AMP, all of the applicable aging effects, are managed by the Chemistry Program (which is consistent with GALL XI.M2 but not listed for this GALLitem) and the Heat Exchanger Inspections. The component/component type aging is managed by a program/activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B),	PB	Carbon Steel	Raw Water	Erosion, Galvanic Corrosion, General	Loss of Material; Heat Exchanger	Service Water System Reliability	See Note A-CC-e	VII.C1.3-a, VII.C1.3.3	T.3-17	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. Except as noted,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Component Cooling - Channel Head				Corrosion, Crevice Corrosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates	Fouling	and In-Service Testing Program	See Note A-CC-f					the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Channel Head	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-a See Note A-CC-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-a See Note A-CC-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Tubes	PB, HT	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-CC-j See Note A-CC-k	VII.C1.1-a, VII.C1.1.1	T.3-17	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Tubes	PB, HT	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CC-c See Note A-CC-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Tubesheets	PB	Carbon Steel	Raw Water	Erosion, Galvanic Corrosion, General Corrosion, Crevice Corrosion, Pitting	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-CC-e See Note A-CC-f	VII.C1.3-a, VII.C1.3.3	T.3-17	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates								with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Tubesheets	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of this credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CC	CC	Motors (MPP0001A/B/C), CC Pump Casing/Int. Bearing Cooler only - Fins	HT	Aluminum	Ventilation *	Particulates	Heat Exchanger Fouling	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-CC-s See Note A-CC-w	N/A	N.3-24	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Motors (MPP0001A/B/C), CC Pump Casing/Int. Bearing Cooler only - Tubes	PB, HT	Copper-Nickel	Treated Water	Crevice Corrosion, Galvanic Corrosion, Pitting Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-CC-q See Note A-CC-r	VII.C1.3-a, VII.C1.3.1	N.3-28	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components, with microbiologically induced corrosion and biofouling assumed to be a concern only in the raw water environment. Loss of material due to selective leaching was determined not to be an aging effect for this component material-environment combination at VCSNS. Additional aging effects requiring evaluation for VCSNS includes heat exchanger fouling due to particulates and loss of material due to erosion-corrosion. Also, rather than the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Open-Cycle Cooling Water System AMP and the Selective Leaching of Materials AMP, all of the applicable aging effects, are managed by the Chemistry Program (which is consistent with GALL XI.M2 but not listed for this GALLitem) and the Heat Exchanger Inspections. The component/component type aging is managed by a program/activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CC	CC	Motors (MPP0001A/B/C), CC Pump Casing/Int. Bearing Cooler only - Tubes	PB, HT	Copper-Nickel	Ventilation *	Particulates	Heat Exchanger Fouling	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-CC-t See Note A-CC-u	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. The Preventive Maintenance Activities - Ventilation Systems Inspections will adequately manage this aging effect. VCSNS did not find the aging effects of loss of material due to pitting and crevice corrosion as stated in this GALL item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of these activities in effectively managing aging during the period of extended operation.
CC	CC	Motors (MPP0001A/B/C), CC Pump Casing/Int. Bearing Cooler only - Tubesheets	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CC	CC	Motors (MPP0001A/B/C), CC	PB	Carbon Steel	Ventilation *	Galvanic Corrosion, General Corrosion	Loss of Material	Preventive Maintenance	See Note A-CC-o	VII.F1.4-a, VII.F1.4.1	T.3-05	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Pump Casing/Int. Bearing Cooler only - Tubesheets						Activities - Ventilation Systems Inspections	See Note A-CC-p					component/component type AMR results are consistent with the identified GALL item in material and environment. The Preventive Maintenance Activities - Ventilation Systems Inspections will adequately manage these aging effects. The referenced GALL item's aging effects of loss of material due to pitting and crevice corrosion were found not applicable at VCSNS, but the possibility of loss of material due to galvanic corrosion exists. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Motors (MPP0001A/B/C), CC Pump Casing/Int. Bearing Cooler only - Water Boxes	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-a See Note A-CC-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Motors (MPP0001A/B/C), CC Pump Casing/Int. Bearing Cooler only - Water Boxes	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water system components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
CC	CC	Orifices	PB, TH	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CC-I	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Orifices	PB, TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CC-c See Note A-CC-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-m See Note A-CC-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion	Loss of Material	Boric Acid	See Note A-	VII.I.1-a,	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						(Aggressive Chemical Attack)		Corrosion Surveillances	CC-a See Note A-CC-b	VII.I.1.1				carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Pipe and Fittings (Thermowells)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Pipe and Fittings (Thermowells)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CC-I	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Pipe and Fittings (Thermowells)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion;	Loss of Material; Cracking	Chemistry Program	See Note A-CC-c	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Stress Corrosion Cracking (SCC)			See Note A-CC-d					determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Pumps (Casing Only) (XPP0058A/B/C), CC Booster Pumps	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CC-c See Note A-CC-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Pumps (Casing Only) (XPP0001A/B/C), CC Pumps	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-a See Note A-CC-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
CC	CC	Pumps (Casing Only) (XPP0001A/B/C), CC Pumps	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Pumps (Casing Only) (XPP0058A/B/C), CC Booster Pumps	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CC-I	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Tank (XTK0003), CC Surge Tank	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-a See Note A-CC-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Tank (XTK0003), CC Surge Tank	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Corrosive Impacts of Alternate Wetting and Drying	Loss of Material	Chemistry Program; Above Ground Tank Inspection	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	N.3-19	No	No	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program and Above Ground Tank Inspection will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														with the identified GALL item which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of the credited program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program and activity in effectively managing aging during the period of extended operation and in detecting and characterizing the affects of aging due to the corrosive impacts of alternate wetting and drying.
CC	CC	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-CC-I	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. VCSNS did not identify loss of material due to pitting and crevice corrosion for this component. The aging effect will be managed by the Inspections for Mechanical Components. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CC-c See Note A-CC-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-m See Note A-CC-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CC-a See Note A-CC-b	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CC	CC	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CC-g See Note A-CC-h	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b, V.C.1.2	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL items in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CC-I	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CC	CC	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CC-c See Note A-CC-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CO	CO	Tank (XTK0008), Condensate Storage	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Corrosive Impacts of Alternate Wetting and Drying	Loss of Material	Chemistry Program; Above Ground Tank Inspection	See Note A-CO-a, See Note A-CO-b	VIII.E.5-a, VIII.E.5.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.E.5-a addresses the Condensate Storage Tank internal surfaces. The material, environment, aging effects requiring management and credited programs for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effects and credited programs. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection, which includes measures to verify the effectiveness of water chemistry control. The Above Ground Tank Inspection is a one-time inspection activity that will detect and characterize the loss of material due to corrosive impacts of alternate wetting and drying at the air-water interface inside the tank and does not serve to verify the effectiveness of chemistry control. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation, and of the activity in detecting and characterizing the affects of aging , if any.
CO	CO	Tank (XTK0008), Condensate Storage	PB	Carbon Steel	Yard	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CO-c, See Note A-CO-d	VIII.E.5-c, VIII.E.5.1	T.4-11	No	No	VIII.E.5-c addresses the Condensate Storage Tank external surfaces. Aging effects for this component/component type are managed by an activity that is not evaluated in GALL Chapter XI and is therefore specific to VCSNS. Inspections for Mechanical Components manages loss of material for carbon steel components exposed to ambient conditions by performing visual inspections. The Aboveground Carbon Steel Tanks Program includes preventive measures to mitigate corrosion by protecting the external surface of carbon steel tanks with paint or coatings, and relies on periodic system walkdowns to monitor degradation. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
DG	DG	Expansion Joints (XEG0001A/B-EJ1, EJ2), Diesel Engine Exhaust	PB	Carbon Steel	Air-Gas	General Corrosion	Loss of Material	Diesel Generator Systems Inspection	See Note A-DG-a See Note A-DG-n	VII.H2.4-a, VII.H2.4.1	T.3-05	Yes, plant specific	No	VII.H2.4-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. VCSNS determined that crevice and pitting corrosion were not applicable aging effects. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Expansion Joints (XEG0001A/B-EJ1, EJ2),	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical	See Note A-DG-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Diesel Engine Exhaust						Components	See Note A-DG-c					component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Expansion Joints (XEG0001A/B-EJ1, EJ2), Diesel Engine Exhaust	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-d	VII.F2.4-a, VII.F2.4.1	N.3-10	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Expansion Joints (XEG0001A/B-EJ1, EJ2), Diesel Engine Exhaust	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-DG-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Filters (XEG0001A/B-FL1, FL2)	PB, FI	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.1	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Filters (XEG0001A/B-FL1, FL2, FL5)	PB, FI	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Filters (XEG0001A/B-FL3, FL4)	PB, FI	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.2-a	T.3-05	Yes, plant specific	No	VII.H2.2-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														require management during the period of extended operation as detailed in the applicable note.
DG	DG	Filters (XEG0001A/B-FL3, FL4)	PB, FI	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Flexible Coupling	PB	Neoprene	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-zn	VII.F2.4-b, VII.F2.4.2	T.3-02	Yes, plant specific	No	VII.F2.4-b addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Flexible Coupling	PB	Neoprene	Sheltered	Radiation Embrittlement, Thermal Embrittlement	Cracking	Inspections for Mechanical Components	See Note A-DG-zm	VII.F2.4-b, VII.F2.4.2	T.3-02	Yes, plant specific	No	VII.F2.4-b addresses Auxiliary and Radwaste Area Ventilation System components. The component AMR results are consistent with the identified GALL item in material and environment. The Inspections for Mechanical Components will manage the aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
DG	DG	Flexible Coupling	PB	Rubber	Oil/Fuel Oil	None Identified	None Identified	None Required	See Note A-DG-zo	N/A	N.3-26	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Flexible Coupling	PB	Rubber	Sheltered	Radiation Embrittlement, Thermal Embrittlement	Cracking	Inspections for Mechanical Components	See Note A-DG-zm	VII.F2.4-b, VII.F2.4.2	T.3-02	Yes, plant specific	No	VII.F2.4-b addresses Auxiliary and Radwaste Area Ventilation System components. The component AMR results are consistent with the identified GALL item in material and environment. The Inspections for Mechanical Components will manage the aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
DG	DG	Flexible Hose	PB	Rubber	Oil/Fuel Oil	None Identified	None Identified	None Required	See Note A-DG-zo	N/A	N.3-26	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Flexible Hose	PB	Rubber	Sheltered	Radiation Embrittlement, Thermal Embrittlement	Cracking	Inspections for Mechanical Components	See Note A-DG-zm	VII.F2.4-b, VII.F2.4.2	T.3-02	Yes, plant specific	No	VII.F2.4-b addresses Auxiliary and Radwaste Area Ventilation System components. The component AMR results are consistent with the identified GALL item in material and environment. The Inspections for Mechanical Components will manage the aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
DG	DG	Flexible Hose	PB	Rubber	Treated Water	None Identified	None Identified	None Required	See Note A-DG-zp	N/A	N.3-26	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Channel Head	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-DG-zd See Note A-DG-ze	VII.C1.1-a, VII.C1.1.1	T.3-17	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Selective leaching is not an applicable aging effect for this component and so the GALL-referenced Selective Leaching AMP is not applicable. VCSNS determined that galvanic corrosion is not an applicable aging effect. However, the attributes of this activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Channel Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-DG-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Channel Head	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-DG-zd See Note A-DG-ze	VII.C1.1-a, VII.C1.1.1	T.3-17	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Selective leaching is not an applicable aging effect for this component and so the GALL-referenced Selective Leaching AMP is not applicable. VCSNS determined that galvanic corrosion is not an applicable aging effect. However, the attributes of this activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Channel Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-DG-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B), DG Turbo Cooler (Intercooler) - Head	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B),	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion,	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		DG Turbo Cooler (Intercooler) - Head				General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)			See Note A-DG-zg					determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B), DG Turbo Cooler (Intercooler) - Shell	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.3-a	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B), DG Turbo Cooler (Intercooler) - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B), DG Turbo Cooler (Intercooler) - Tubes	PB, HT	Brass	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-e	N/A	N.3-12	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B), DG Turbo Cooler (Intercooler) - Tubes	PB, HT	Brass	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Particulates	Loss of Material; Cracking; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-DG-zj See Note A-DG-zk	VII.C1.3-a, VII.C1.3.5	N.3-28	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material (copper alloy), environment and aging effects (microbiologically induced corrosion and biofouling are assumed to be a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														concern only in the raw water environment). However, additional aging effects requiring evaluation for VCSNS include cracking due to stress corrosion cracking, loss of material due to erosion-corrosion and heat exchanger fouling due to particulates. GALL aging effects for this item are managed by the Open-Cycle Cooling Water System Program. Selective leaching is determined not to applicable for this component. All of the applicable aging effects are managed by the Chemistry Program and Heat Exchanger Inspections. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B), DG Turbo Cooler (Intercooler) - Tubesheet	PB	Brass	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-e	N/A	N.3-12	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XEG0001A/B-HE2A/B), DG Turbo Cooler (Intercooler) - Tubesheet	PB	Brass	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion, Selective Leaching; Stress Corrosion Cracking (SCC); Particulates	Loss of Material; Cracking; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-DG-zj See Note A-DG-zk	VII.C1.3-a, VII.C1.3.4	N.3-28	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material (copper alloy), environment and aging effects (microbiologically induced corrosion and biofouling are assumed to be a concern only in the raw water environment). However, additional aging effects requiring evaluation for VCSNS include cracking due to stress corrosion cracking, loss of material due to erosion-corrosion and heat exchanger fouling due to particulates. GALL aging effects for this item are managed by the Open-Cycle Cooling Water System Program and Selective Leaching AMP. All of the applicable aging effects are managed by the Chemistry Program and the Heat Exchanger Inspections. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
DG	DG	Heat Exchangers (XEG0001A/B-HE1), DG Governor Lube Oil Cooler - Shell	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XEG0001A/B-HE1), DG Governor Lube Oil Cooler - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XEG0001A/B-HE1), DG Governor Lube Oil Cooler - Tubes	PB, HT	Brass	Oil	None Identified	None Identified	None Required	See Note A-DG-v	VII.G.7-b, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XEG0001A/B-HE1), DG Governor Lube Oil Cooler - Tubes	PB, HT	Brass	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Particulates	Loss of Material; Cracking; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-DG-zj See Note A-DG-zk	VII.C1.3-a, VII.C1.3.5	N.3-28	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material (copper alloy), environment and aging effects (microbiologically induced corrosion and biofouling are assumed to be a concern only in the raw water environment). However, additional aging effects requiring evaluation for VCSNS include cracking due to stress corrosion cracking, loss of material due to erosion-corrosion and heat exchanger fouling due to particulates. GALL aging effects for this item are managed by the Open-Cycle Cooling Water System Program. Selective leaching is determined not to be applicable for this component. All of the applicable aging effects are managed by the Chemistry Program and Heat Exchanger Inspections. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Shell	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf See Note A-DG-zg	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Shell	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Tubes	PB, HT	Brass	Oil	None Identified	None Identified	None Required	See Note A-DG-v	VII.G.7-b, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Tubes	PB, HT	Brass	Raw Water	Crevice Corrosion, Erosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-DG-zb See Note A-DG-zc	VII.C1.3-a, VII.C1.3.5	T.3-17, T.3-29	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material (copper alloy), environment and aging effects. GALL aging effects are managed by the Open-Cycle Cooling Water System Program and Selective Leaching of Materials AMP. Selective leaching and galvanic corrosion are not applicable aging effects for this component and so the GALL-referenced Selective Leaching AMP is not applicable. Certain aging effects not addressed by the GALL item are also managed by the credited program. VCSNS determined that galvanic corrosion was not an applicable aging effect. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Tubes	PB, HT	Brass	Raw Water	Crevice Corrosion, Erosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-DG-zb See Note A-DG-zc	VII.C1.3-a, VII.C1.3.5	T.3-17, T.3-29	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item, which has a similar material (copper alloy), environment and aging effects. GALL aging effects are managed by the Open-Cycle Cooling Water System Program and Selective Leaching of Materials AMP. Selective leaching and galvanic corrosion are not applicable aging effects for this component and so the GALL-referenced Selective Leaching AMP is not applicable. Certain aging effects not addressed by the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL item are also managed by the credited program. VCSNS determined that galvanic corrosion is not an applicable aging effect. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Tubes	PB, HT	Brass	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Particulates	Loss of Material; Cracking; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-DG-zj See Note A-DG-zk	VII.C1.3-a, VII.C1.3.5	N.3-28	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material (copper alloy), environment and aging effects (microbiologically induced corrosion and biofouling are assumed to be a concern only in the raw water environment). However, additional aging effects requiring evaluation for VCSNS include cracking due to stress corrosion cracking, loss of material due to erosion-corrosion and heat exchanger fouling due to particulates. GALL aging effects for this item are managed by the Open-Cycle Cooling Water System Program. All of the applicable aging effects are managed by the Chemistry Program and Heat Exchanger Inspections. Selective leaching is determined not to be applicable for this component. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Tubesheet(s)	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-s	VIII.G.5-d, VIII.G.5.3	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. At VCSNS, the lube oil environment is not contaminated with water, and so the GALL aging effects are not applicable. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heat Exchangers (XHE0017A/B-HE1), DG Lube Oil Cooler - Tubesheet(s)	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Pitting Corrosion, Microbiologically	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-DG-zd See Note A-DG-ze	VII.C1.1-a, VII.C1.1.1	T.3-17	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Induced Corrosion (MIC); Biological Materials, Particulates								with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Selective leaching is not an applicable aging effect for this component and so the GALL-referenced Selective Leaching AMP is not applicable. VCSNS determined that galvanic corrosion is not an applicable aging effect. However, the attributes of this activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Tubesheet(s)	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-DG-zd See Note A-DG-ze	VII.C1.1-a, VII.C1.1.1	T.3-17	No	Partial	VII.C1.1-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Selective leaching is not an applicable aging effect for this component and so the GALL-referenced Selective Leaching AMP is not applicable. VCSNS determined that galvanic corrosion is not an applicable aging effect. However, the attributes of this activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Heat Exchangers (XHE0017A/B-HE2, HE3), Jacket Water; Intercooler&Injector Clg Wtr - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zh See Note A-DG-zi	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Heaters (Body Only) (XEG0001A/B-HC1), Lube Oil	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Heaters (Body Only) (XEG0001A/B-HC2), Jacket Water	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf See Note A-DG-zg	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Heaters (Body Only) (XEG0001A/B-HC1, -HC2), Lube Oil & Jacket Water	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Mufflers (XNA0007A/B), DG Exhaust	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.4-a, VII.H2.4.2	N.3-10	Yes, plant specific	No	VII.H2.4-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														applicable note.
DG	DG	Mufflers (XNA0007A/B), DG Exhaust	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A- DG-b See Note A- DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Orifices	PB, TH	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A- DG-d	VII.F2.4-a, VII.F2.4.1	T.3-05	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Orifices	PB, TH	Stainless Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A- DG-q See Note A- DG-r	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	No	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program). VCSNS determined that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A- DG-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Orifices - PS1 thru PS9	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									DG-g					components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Orifices - PS1 thru PS9	PB, TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zh See Note A-DG-zi	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Brass	Oil	None Identified	None Identified	None Required	See Note A-DG-v	VII.G.7-b, VII.G.7.1	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Pipe and Fittings	PB	Brass	Sheltered	None Identified	None Identified	None Required	See Note A-DG-h	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Pipe and Fittings	PB	Brass	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion, Selective Leaching; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program, Heat Exchanger Inspections	See Note A-DG-zj See Note A-DG-zk	VII.C1.3-a, VII.C1.3.5	N.3-28	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material (copper alloy), environment and aging effects (microbiologically induced corrosion and biofouling are assumed to be a concern only in the raw water environment). However, additional aging effects requiring evaluation for VCSNS include cracking due to

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														stress corrosion cracking and loss of material due to erosion-corrosion. GALL aging effects for this item are managed by the Open-Cycle Cooling Water System Program and Selective Leaching AMP. All of the VCSNS aging effects are managed by the Chemistry Program and Heat Exchanger Inspections. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.4-a, VII.H2.4.1	N.3-10	Yes, plant specific	No	VII.H2.4-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.1	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. VCSNS determined that additional aging effects are loss of material due to galvanic corrosion and microbiologically induced corrosion (MIC), which will also be managed by the credited activity. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion,	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf See Note A-	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS determined that the Chemistry Program will

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Pitting Corrosion; Stress Corrosion Cracking (SCC)			DG-zg					adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Underground	Crevice Corrosion, Pitting Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Buried Piping and Tanks Inspection	See Note A- DG-za	VII.H1.1-b, VII.H1.1.2	T.3-18	Yes, detection of aging effects and operating experience are to be further evaluated.	Partial	VII.H1.1-b addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A- DG-y	VII.H1.1-a, VII.H1.1.1	T.3-05	Yes, plant specific	No	VII.H1.1-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Certain aging effects not addressed by this GALL item are also managed by the credited program. VCSNS determined that loss of material due to crevice and pitting corrosion are not applicable aging effects. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Copper	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A- DG-t See Note A- DG-u	N/A	N.3-27	N/A	N/A	The copper and fuel oil combination is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type, are therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Copper	Sheltered	None Identified	None Identified	None Required	See Note A-DG-h	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP2, 3), DG Rocker Arm Lube & Prelube	PB	Cast Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-k See Note A-DG-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. Cast iron has certain similarities with carbon steel. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP5, 6), Attached & Auxiliary Fuel Oil	PB	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP5, 6), Attached & Auxiliary Fuel Oil	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP7), Jacket Water Warm-up	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf See Note A-DG-zg	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP7, 8, 9), Jacket Water Warm-up, Jacket Water, Intercooler Water	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP8), Jacket Water	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf See Note A-DG-zg	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP9), Intercooler Water	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf See Note A-DG-zg	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP1, 4), DG Attached Lube Oil & Lube Oil Filter Pump	PB	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP1, 4), DG Attached Lube Oil & Lube Oil Filter Pump	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation.
DG	DG	Pumps (Casing Only) (XEG0001A/B-PP2, 3), DG Rocker Arm Lube & Prelube	PB	Cast Iron	Oil	None Identified	None Identified	None Required	See Note A-DG-w	N/A	N.3-05	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Pumps (Casing Only) (XPP0004A/B, -141A/B), DG Fuel Oil Transfer	PB	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Pumps (Casing Only) (XPP0004A/B, -141A/B), DG Fuel Oil Transfer	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Accumulators (XEG0001A/B-OR1), DG Rocker Lube Oil Reservoir	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the period of extended operation.
DG	DG	Accumulators (XEG0001A/B-OR1), DG Rocker Lube Oil Reservoir	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Reservoir - Air Start	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.3-a	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Reservoir - Air Start	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Sight Glass (Body Only)	PB	Glass	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-zl	N/A	N.3-23	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Sight Glass (Body Only)	PB	Glass	Oil/Fuel Oil	None Identified	None Identified	None Required	See Note A-DG-x	N/A	N.3-23	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Sight Glass (Body Only)	PB	Glass	Sheltered	None Identified	None Identified	None Required	See Note A-DG-j	N/A	N.3-23	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
DG	DG	Silencers (XHD0013A/B/C/D)	PB, FI	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.3-a	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Silencers (XHD0013A/B/C/D)	PB, FI	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Strainers (Body Only) (XEG0001A/B-ST1, 2)	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Strainers (Body Only) (XEG0001A/B-ST1, 2)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Strainers (Body Only) (XEG0001A/B-ST3, 4)	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.2-a	T.3-05	Yes, plant specific	No	VII.H2.2-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Strainers (Body Only) (XEG0001A/B-ST3, 4)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									DG-c					consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Strainers (Body Only) (XST0088A/B/C/D)	PB	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Strainers (Body Only) (XST0088A/B/C/D)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tanks (XEG0001A/B-TK1)	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.3-a	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tanks (XEG0001A/B-TK1, 2 & 3)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical	See Note A-DG-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
								Components	See Note A-DG-c					component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tanks (XEG0001A/B-TK2)	PB	Carbon Steel	Fuel Oil	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program). Certain aging effects not addressed by the GALL item are also managed by the credited program. VCSNS determined that biofouling is not an applicable aging effect. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Tanks (XEG0001A/B-TK3)	PB	Carbon Steel	Fuel Oil	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program). Certain aging effects not addressed by the GALL item are also managed by the credited program. VCSNS determined that biofouling is not an applicable aging effect. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
DG	DG	Tanks (XTK0020A/B), Fuel Oil Day	PB	Carbon Steel	Fuel Oil	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program). Certain aging effects not addressed by the GALL item are also managed by the credited program. VCSNS determined that biofouling is not an applicable aging effect. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Tanks (XTK0020A/B), Fuel Oil Day	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tanks (XTK0053A/B), Fuel Oil Storage	PB	Carbon Steel	Fuel Oil	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects, and program (VCSNS Fuel Oil Chemistry included in Chemistry Program). Certain aging effects not addressed by the GALL item are also managed by the credited program. VCSNS determined that biofouling is not an applicable aging effect. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														meeting the intent of the pertinent GALL program.
DG	DG	Tanks (XTK0053A/B), Fuel Oil Storage	PB	Carbon Steel	Underground	Crevice Corrosion, Pitting Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Buried Piping and Tanks Inspection	See Note A-DG-za	VII.H1.1-b, VII.H1.1.2	T.3-18	Yes, detection of aging effects and operating experience are to be further evaluated.	Partial	VII.H1.1-b addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tanks (XTK0009A/B/C/D) - DG Air Reciever	PB	Carbon Steel	Air-Gas	Corrosive Impacts of Alternate Wetting and Drying	Loss of Material	Diesel Generator Systems Inspection	See Note A-DG-a See Note A-DG-n	VII.H2.3-a, VII.H2.3.1	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with this GALL item with respect to material and environment. The identified aging effect is not addressed in the GALL item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tanks (XTK0009A/B/C/D) - DG Air Reciever	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tube & Tube Fittings	PB	Carbon Steel	Air-Gas	General Corrosion	Loss of Material	Diesel Generator Systems Inspection	See Note A-DG-a See Note A-DG-n	VII.H2.3-a, VII.H2.3.1	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. VCSNS determined that crevice and pitting corrosion were not applicable aging effects. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tube & Tube Fittings	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.1	N.3-05	Yes, detection of aging effects is to be	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
												evaluated		component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tube & Tube Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tube & Tube Fittings	PB	Copper	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-e	N/A	N.3-12	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tube & Tube Fittings	PB	Copper	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-t See Note A-DG-u	N/A	N.3-27	N/A	N/A	The copper and fuel oil combination is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type, are therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
DG	DG	Tube & Tube Fittings	PB	Copper	Sheltered	None Identified	None Identified	None Required	See Note A-DG-h	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tube & Tube Fittings	PB	Copper	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-DG-zj See Note A-DG-zk	N/A	N.3-28	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type, are therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Tube & Tube Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-d	VII.F2.4-a, VII.F2.4.1	T.3-05	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tube & Tube Fittings	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-s	VIII.G.5-d, VIII.G.5.3	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-DG-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zh See Note A-DG-zi	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Turbocharger (Casing/Shell Only) (XEG0001A/B-FN1A/B), DG	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.4-a	T.3-05	Yes, plant specific	No	VII.H2.4-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
DG	DG	Turbocharger (Casing/Shell Only) (XEG0001A/B-FN1A/B), DG	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Valves (Body Only)	PB	Aluminum	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-f	N/A	N.3-12	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Valves (Body Only)	PB	Aluminum	Sheltered	None Identified	None Identified	None Required	See Note A-DG-m	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Valves (Body Only)	PB	Brass	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-e	N/A	N.3-12	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Valves (Body Only)	PB	Brass	Sheltered	None Identified	None Identified	None Required	See Note A-DG-h	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Valves (Body Only)	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-DG-p	VII.G.7-a, VII.G.7.1	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-b See Note A-DG-c	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-DG-zf See Note A-DG-zg	VII.H2.1-a VII.H2.1.1	T.3-15	No	Partial	VII.H2.1-a addresses Emergency Diesel Generator System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
DG	DG	Valves (Body Only)	PB	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-DG-y	VII.H1.2-a, VII.H1.2.1	T.3-05	Yes, plant specific	No	VII.H1.2-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Certain aging effects not addressed by the GALL items are also managed by the credited program. VCSNS determined that loss of material due to crevice and pitting corrosion are not applicable aging effects. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Valves (Body Only)	PB	Ductile Iron	Oil	None Identified	None Identified	None Required	See Note A-DG-w	N/A	N.3-05	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Valves (Body Only)	PB	Ductile Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical	See Note A-DG-k	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. In the sheltered

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
								Components	See Note A-DG-I					environment, ductile iron has similarities with carbon steel. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Valves (Body Only)	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-d	VII.F2.4-a, VII.F2.4.1	T.3-05	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-DG-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DN	DN	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-0	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DN	DN	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-DN-a	V.C.1-b	N.2-0	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DN	DN	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-DN-b, See Note A-DN-c	V.C.1-b, V.C.1.2	T.2-05	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes of the credited program in effectively managing aging during the period of extended operation.
DN	DN	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-0	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DN	DN	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-DN-a	V.C.1-b	N.2-0	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DN	DN	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-DN-b, See Note A-DN-c	V.C.1-b, V.C.1.1	T.2-05	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
EF	EF	Filter (TPP0008-FL1), EFWP Turbine Lube Oil Filter	PB, FI	Aluminum	Oil	None Identified	None Identified	None Required	See Note A-EF-a	N/A	N.4-03	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Filter (TPP0008-FL1), EFWP Turbine Lube Oil Filter	PB, FI	Aluminum	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-b See Note A-EF-c	N/A	N.4-02	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
EF	EF	Filter (TPP0008-FL1), EFWP Turbine Lube Oil Filter	PB, FI	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-EF-d	VIII.G.5-d, VIII.G.5.1	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component/component type AMR results for VCSNS are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management during the period of extended operation as detailed in the applicable note.
EF	EF	Filter (TPP0008-FL1), EFWP Turbine Lube Oil Filter	PB, FI	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activiy for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Heat Exchanger (TPP0008-HE1), EFWP Turbine Lube Oil Cooler - Shell	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-EF-d	VIII.G.5-d, VIII.G.5.1	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component/component type AMR results for VCSNS are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Heat Exchanger (TPP0008-HE1), EFWP Turbine Lube Oil Cooler - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL items which have the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Heat Exchanger (TPP0008-HE1), EFWP Turbine Lube Oil Cooler - Tube	PB, HT	Brass	Oil	None Identified	None Identified	None Required	See Note A-EF-g	VII.G.7-b, VII.G.7.2	N.4-03	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component AMR results are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Heat Exchanger (TPP0008-HE1), EFWP	PB, HT	Brass	Treated Water	Crevice Corrosion, Galvanic Corrosion,	Loss of Material; Cracking	Chemistry Program, Heat	See Note A-EF-h	VII.C1.3-a, VII.C1.3.1	N.4-06	No	No	VII.C1.3-a addresses Open-Cycle Cooling Water System components, with

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Turbine Lube Oil Cooler - Tube				Selective Leaching, Pitting Corrosion; Stress Corrosion Cracking (SCC)		Exchanger Inspections	See Note A-EF-ii					microbiologically induced corrosion and biofouling assumed to be a concern only in the raw water environment. Loss of material due to selective leaching was determined not to be an aging effect for this component material-environment combination at VCSNS. Additional aging effects requiring evaluation for VCSNS includes heat exchanger fouling due to particulates and loss of material due to erosion-corrosion. Also, rather than the Open-Cycle Cooling Water System AMP and the Selective Leaching of Materials AMP, all of the applicable aging effects, are managed by the Chemistry Program (which is consistent with GALL XI.M2 but not listed for this GALLitem) and the Heat Exchanger Inspections. The component/component type aging is managed by a program/activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
EF	EF	Orifices (Breakdown)	PB, TH	Carbon Steel/Alloy Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel/alloy steel components. The material, environment, aging effect requiring management, and the credited activiy for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Orifices (Breakdown)	PB, TH	Carbon Steel/Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-j See Note A-EF-k	VIII.G.1-c	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.1-c addresses Auxiliary Feedwater System components. The component/component type AMR results for VCSNS are consistent with these GALL items in material, environment, aging effects and program. However, the attributes of the credited program/activity are not fully consistent with the coresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Orifices (Flow)	PB, TH	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-EF-d	VIII.G.5-d, VIII.G.5.1	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component/component type AMR results for VCSNS are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Orifices (Flow)	PB, TH	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activiy for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Orifices (Flow)	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-EF-x	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Orifices (Flow)	PB, TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-l See Note A-EF-m	VIII.G.4-b, VIII.G.4.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.4-b addresses the condensate storage (emergency) tank. The component/component type AMR results are consistent with this GALL item in material, environment, aging effects and program. However, the attributes of the credited program/activity are not fully consistent with the coresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program.
EF	EF	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-n See Note A-EF-o	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL items which have the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activiy for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-j See Note A-EF-k	VIII.G.1-c	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.1-c addresses Auxiliary Feedwater System components. The component/component type AMR results for VCSNS are consistent with these GALL items in material, environment, aging effects and program. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
EF	EF	Pipe and Fittings	PB	Carbon Steel	Yard	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-p See Note A-EF-w	VIII.G.4-c, VIII.G.4.1	T.4-11	No	No	VIII.G.4-c addresses the condensate storage (emergency) tank (above ground, external surface). The component AMR results for VCSNS are consistent with this GALL item in material, environment and aging effect. However, rather than the Above Ground Carbon Steel Tanks program, loss of material due to general corrosion is managed by a program that is not evaluated in GALL Chapter XI and is therefore specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Pipe and Fittings, EFWP Turbine Lube Oil	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-EF-d	VIII.G.5-d, VIII.G.5.1	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component/component type AMR results for VCSNS are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Pipe and Fittings, EFWP Turbine Lube Oil	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Pipe and Fittings, EFWP Turbine Lube Oil (thermowell)	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-EF-q	VIII.G.5-d	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component AMR results are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Pipe and Fittings, EFWP Turbine Lube Oil (thermowell)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-EF-x	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														operation as detailed in the applicable note.
EF	EF	Pump (Casing Only) (TPP0008-PP1) - EFWP Lube Oil Rotary Pump	PB	Cast Iron	Oil	None Identified	None Identified	None Required	See Note A-EF-r	VIII.G.5-d, VIII.G.5.1	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component/component type AMR results for VCSNS are consistent with this GALL item in material (cast iron assumed similar to carbon steel) and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Pump (Casing Only) (TPP0008-PP1) - EFWP Lube Oil Rotary Pump	PB	Cast Iron	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-s See Note A-EF-t	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	This material/environment combination is not addressed in GALL. However, because of similarities in material properties, the aging effects evaluated for cast iron are the same as those for carbon steel [TR00160-010, Attachment X]. VIII.H.1-a addresses carbon steel components (external surfaces). The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Pump (Casing Only) (XPP0008), EFWP Turbine Driven	PB	Alloy Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel/alloy steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Pump (Casing Only) (XPP0008), EFWP Turbine Driven	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-j See Note A-EF-k	VIII.G.1-c	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.1-c addresses Auxiliary Feedwater System components. The component AMR results for VCSNS are consistent with these GALL items in material, environment, aging effects and program. However, the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Pumps (Casing Only) (XPP0021A/B), MDEFWP	PB	Alloy Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel/alloy steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Pumps (Casing Only) (XPP0021A/B), MDEFWP	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-j See Note A-EF-k	VIII.G.1-c	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.1-c addresses Auxiliary Feedwater System components. The component/component type AMR results for VCSNS are consistent with these GALL items in material, environment, aging effects and program. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Strainers (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
EF	EF	Strainers (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-I See Note A-EF-m	VIII.G.4-b, VIII.G.4.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.4-b addresses the condensate storage (emergency) tank. The component/component type AMR results are consistent with this GALL item in material, environment, aging effects and program. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Accumulator (TPP0008-OR1), EFWP Turbine Lube Oil Reservoir	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-EF-d	VIII.G.5-d, VIII.G.5.1	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component/component type AMR results for VCSNS are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Accumulator (TPP0008-OR1), EFWP Turbine Lube Oil Reservoir	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-EF-x	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-I See Note A-	VIII.G.4-b, VIII.G.4.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.4-b addresses the condensate storage (emergency) tank. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									EF-m					consistent with this GALL item in material, environment, aging effects and program. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Tube & Tube Fittings	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.4-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-j See Note A-EF-k	VIII.G.1-c	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.1-c addresses Auxiliary Feedwater System components. The component/component type AMR results for VCSNS are consistent with these GALL items in material, environment, aging effects and program. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														in meeting the intent of the pertinent GALL program.
EF	EF	Valves (Body Only)	PB	Carbon Steel	Yard	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-p See Note A-EF-w	VIII.G.4-c, VIII.G.4.1	T.4-11	No	No	VIII.G.4-c addresses the condensate storage (emergency) tank (above ground, external surface). The component AMR results for VCSNS are consistent with this GALL item in material, environment and aging effects. However, rather than the Aboveground Carbon Steel Tanks Program, loss of material due to general corrosion is managed by a program that is not evaluated in GALL Chapter XI and is therefore specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the activity for managing aging during the period of extended operation.
EF	EF	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-EF-x	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EF-l See Note A-EF-m	VIII.G.4-b, VIII.G.4.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.4-b addresses the condensate storage (emergency) tank. The component/component type AMR results are consistent with this GALL item in material, environment, aging effects and program. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Valves (Body Only)	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.4-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Valves (Body Only) - EFWP Turbine Lube Oil	PB	Brass	Oil	None Identified	None Identified	None Required	See Note A-EF-g	VII.G.7-b, VII.G.7.2	N.4-03	Yes, detection of aging effects is to be evaluated	Partial	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component AMR results are consistent with this GALL item in material and environment.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Valves (Body Only) - EFWP Turbine Lube Oil	PB	Brass	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-u See Note A-EF-v	N/A	N.4-02	N/A	N/A	Component/Component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Valves (Body Only) - EFWP Turbine Lube Oil	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-EF-d	VIII.G.5-d, VIII.G.5.1	T.4-04	Yes, plant specific	No	VIII.G.5-d addresses bearing oil cooler components. The component/component type AMR results for VCSNS are consistent with this GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
EF	EF	Valves (Body Only) - EFWP Turbine Lube Oil	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EF-e See Note A-EF-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EX	EX	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EX-a, See Note A-EX-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
EX	EX	Pipe and Fittings	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion	See Note A-EX-c, See	VIII.C.1-a, VIII.C.1.1	T.4-06	No	Yes	VIII.C.1-a addresses Extraction Steam System piping and fittings. The material,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
								Monitoring Program	Note A-EX-d					environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EX	EX	Valves (Body Only)	PB	Alloy Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EX-a, See Note A-EX-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel/alloy steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EX	EX	Valves (Body Only)	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EX-c, See Note A-EX-d	VIII.C.1-b, VIII.C.1.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.C.1-b addresses Extraction Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EX	EX	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EX-a, See Note A-EX-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EX	EX	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EX-c, See Note A-EX-d	VIII.C.1-b, VIII.C.1.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.C.1-b addresses Extraction Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Fire Hydrants	PB	Cast Iron	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Selective Leaching, Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Fire Hydrants	PB	Cast Iron	Underground	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Buried Piping and Tanks Inspection	See Note A-FS-u	VII.H1.1-b, VII.H1.1.2	T.3-18	Yes, detection of aging effects and operating experience are to be further evaluated.	Partial	VII.H1.1-b applies to underground Diesel Fuel Oil piping and fittings. The material for this component/component type is cast iron, where the applicable GALL item material is carbon steel. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														which has a similar environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Fire Hydrants	PB	Cast Iron	Ventilation *	None Identified	None Identified	None Required	See Note A-FS-g	N/A	N.3-18	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Fire Hydrants	PB	Cast Iron	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VIII.H.1-b, VIII.H.1.1	T.3-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Flex Hose	PB	Brass	Oil	None Identified	None Identified	None Required	See Note A-FS-ii	VII.G.7-b, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Flex Hose	PB	Brass	Sheltered	None Identified	None Identified	None Required	See Note A-FS-l, See Note A-FS-m	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Muffler, Diesel Driven Fire Pump Exhaust	NR	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	VII.H2.4-a, VII.H2.4.2	N.3-10	Yes, plant specific	No	VII.H2.4-a addresses the Emergency Diesel Generator muffler. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Muffler, Diesel Driven Fire Pump Exhaust	NR	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VIII.H.1-b, VIII.H.1.1	T.3-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Nozzles (CO2)	TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-FS-n	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Nozzles (CO2)	TH	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-FS-g	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Nozzles (Filter Plenum)	TH	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Nozzles (Filter Plenum)	TH	Galvanized Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-FS-g	VII.F2.1-a, VII.F2.1.2	T.3-05	Yes, plant specific	No	VII.F2.1-a addresses Ventilation System components. The component/component type AMR results are consistent with the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Nozzles (Sprinkler)	TH	Brass	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Nozzles (Sprinkler)	TH	Brass	Raw Water	Crevice Corrosion, Galvanic Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion, Selective Leaching; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-c, See Note A-FS-d	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. VCSNS determined that loss of material due to general corrosion is not an aging effect for brass. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Nozzles (Sprinkler)	TH	Brass	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-I, See Note A-FS-m	N/A	T.3-14	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FS	FS	Orifices	PB, TH	Stainless Steel	Raw Water	Crevice Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-e, See Note A-FS-f	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. VCSNS determined that loss of material due to galvanic and general corrosion are not aging effects for stainless steel. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effect and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-FS-n	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Black Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Black Steel	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Black Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Air-Gas (Exhaust)	None Identified	None Identified	None Required	See Note A-FS-q	N/A	N.3-10	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-r, See Note A-FS-s	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-FS-g	VII.F2.4-a, VII.F2.4.1	N.3-18	Yes, plant specific	No	VII.F2.4-a addresses Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an additional aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Cement-lined ductile iron	Raw Water	None Identified	None Identified	None Required	See Note A-FS-t	N/A	N.3-16	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Cement-lined ductile iron	Underground	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Buried Piping and Tanks Inspection	See Note A-FS-u	VII.H1.1-b, VII.H1.1.2	T.3-18	Yes, detection of aging effects and operating experience are to be further evaluated.	Partial	VII.H1.1-b applies to underground Diesel Fuel Oil piping and fittings. The material for this component/component type is ductile iron, where the applicable GALL item material is carbon steel. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Pipe and Fittings	PB	Galvanized Steel	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Pipe and Fittings	PB	Iron	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	VII.H2.4-a	N.3-04	Yes, plant specific	No	VII.H2.4-a addresses the Emergency Diesel Generator muffler. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Iron	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an additional aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Stainless Steel	Raw Water	Crevice Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-e, See Note A-FS-f	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. VCSNS determined loss of material due to galvanic and general corrosion are not aging effects for stainless steel. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effect and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-FS-n	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Pumps (Casing Only) (XPP0134A/B), Electric & Diesel Fire Pump	PB	Cast Iron	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Selective Leaching, Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Pumps (Casing Only) (XPP0134A/B), Electric & Diesel Fire Pump	PB	Cast Iron	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Strainer (Body Only)	PB	Carbon Steel	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effect and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Strainer (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Strainer	PB, FI	Stainless Steel	Raw Water	Crevice Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-e, See Note A-FS-f	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. VCSNS determined that loss of material due to galvanic and general corrosion are not aging effects for stainless steel. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effect and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Strainer	PB, FI	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-FS-n	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Tank (XTK0125), Fire Service Low Pressure CO2 Storage	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Tank (XTK0125), Fire Service Low Pressure	PB	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical	See Note A-FS-h	VIII.H.1-b, VIII.H.1.1	T.3-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		CO2 Storage						Components						component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Tank (XTK5028), Diesel Fire Pump Day	PB	Carbon Steel	Fuel Oil	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-FS-j, See Note A-FS-k	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a applies to Diesel Fuel Oil Tanks. VCSNS determined that loss of material due to biofouling is not an aging effect requiring management. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, aging effect, and credited program (VCSNS Fuel Oil Chemistry included in Chemistry Program). Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Tank (XTK5028), Diesel Fire Pump Day	PB	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VII.H1.4-b, VII.H1.4.2	T.3-23	No	No	VII.H1.4-b applies to carbon steel tank exterior surfaces. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an additional aging effect requiring management that is not addressed in GALL for this item. VCSNS determined that loss of material due to crevice and pitting corrosion are not applicable aging effects. However, rather than using the Above Ground Carbon Steel Tanks Program to manage the aging effects, a program will be used that is not evaluated in GALL Chapter XI and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
FS	FS	Tube & Tube Fittings	PB	Brass	Oil	None Identified	None Identified	None Required	See Note A-FS-ii	VII.G.7-b, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Tube & Tube Fittings	PB	Brass	Sheltered	None Identified	None Identified	None Required	See Note A-FS-I, See Note A-FS-m	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Tube & Tube Fittings	PB	Copper	Oil	None Identified	None Identified	None Required	See Note A-FS-ii	VII.G.7-b, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Tube & Tube Fittings	PB	Copper	Sheltered	None Identified	None Identified	None Required	See Note A-FS-I, See Note A-FS-m	N/A	N.3-25	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Tube & Tube Fittings	PB	Copper	Yard	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VII.F1.2-a	T.3-05	Yes, plant specific	No	VII.F1.2-a applies to ventilation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Brass	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Valves (Body Only)	PB	Brass	Oil	None Identified	None Identified	None Required	See Note A-FS-ii	VII.G.7-b, VII.G.7.2	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Valves (Body Only)	PB	Brass	Raw Water	Crevice Corrosion, Galvanic Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion, Selective Leaching; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-c, See Note A-FS-d	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. VCSNS determined that loss of material due to general corrosion is not an aging effect for brass. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Brass	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-r, See Note A-FS-s	N/A	T.3-14	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Brass	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-l, See Note A-FS-m	N/A	T.3-14	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Brass	Yard	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	N/A	T.3-05	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII, or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Bronze	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-	N/A	N.3-04	N/A	N/A	The material/environment combination for this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									FS-q					component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Valves (Body Only)	PB	Bronze	Raw Water	Crevice Corrosion, Galvanic Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-c, See Note A-FS-d	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. VCSNS determined that loss of material due to general corrosion is not an aging effect for bronze. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, aging effect, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Bronze	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-l, See Note A-FS-m	N/A	T.3-14	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-FS-j, See Note A-FS-k	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a applies to Diesel Fuel Oil Tanks. VCSNS determined that loss of material due to crevice, general, and pitting corrosion and loss of material due to biofouling are not aging effects requiring management for components other than tanks. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, aging effect, and credited program (VCSNS Fuel Oil Chemistry included in Chemistry Program).

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-r, See Note A-FS-s	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an additional aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Cast Iron	Raw Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Selective Leaching, Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-a, See Note A-FS-b	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Cast Iron	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FS-o, See Note A-FS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Valves (Body Only)	PB	Cast Iron	Underground	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion	Loss of Material	Buried Piping and Tanks Inspection	See Note A-FS-u	VII.H1.1-b, VII.H1.1.2	T.3-18	Yes, detection of aging effects and operating experience are to be further evaluated.	Partial	VII.H1.1-b applies to underground Diesel Fuel Oil piping and fittings. The material for this component/component type is cast iron, where the applicable GALL item material is carbon steel. Except as noted, the AMR

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						(MIC), Pitting Corrosion								results for this component/component type are consistent with the identified GALL item which has a similar environment, aging effects and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Valves (Body Only)	PB	Stainless Steel	Raw Water	Crevice Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Fire Protection Program - Mechanical	See Note A-FS-e, See Note A-FS-f	VII.G.6-b, VII.G.6.2	T.3-21	No	Partial	VII.G.6-b addresses Fire Protection System components. VCSNS determined that loss of material due to galvanic and general corrosion are not aging effects for stainless steel. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment, aging effect and credited program. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-FS-n	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FW	FW	Flow Venturi (IFE0476, IFE0486, IFE0496), SG Feedwater Flow	PB, TH	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FW-a See Note A-FW-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
FW	FW	Flow Venturi (IFE0476, IFE0486, IFE0496), SG Feedwater Flow	PB, TH	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-FW-c See Note A-FW-d	VIII.D1.1-a, VIII.D1.1.1	T.4-06	No	Yes	VIII.D1.1-a addresses Feedwater System piping and fittings. The material, environment, aging effect requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FW	FW	Flow Venturi (IFE0476, IFE0486, IFE0496), SG Feedwater Flow	TH	Nickel-Based Alloy	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-FW-ii See Note A-FW-j	VIII.G.4-b	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.G.4-b addresses stainless steel emergency feedwater components exposed to treated water. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, aging effects, and credited program . For the purposes of license renewal, particularly with regard to exposure to treated water, nickel-based alloys were conservatively considered to be susceptible to the same aging effects/mechanisms as stainless steel [TR00160-010]. Additionally, certain aging effects (cracking) not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the mitigaion program with a One-time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in generally meeting the intent of the pertinent GALL program.
FW	FW	Flow Venturi (IFE0476, IFE0486, IFE0496), SG Feedwater Flow	TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-FW-g See Note A-FW-h	VIII.E.4-a, VIII.E.4.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.E.4-a addresses Condensate System heat exchanger components. VCSNS determined that the Chemistry Program will manage loss of material where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, and aqinq effects. Certain aqinq

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in generally meeting the intent of the pertinent GALL program.
FW	FW	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FW-e See Note A-FW-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FW	FW	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FW-a See Note A-FW-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FW	FW	Pipe and Fittings	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-FW-c See Note A-FW-d	VIII.D1.1-a, VIII.D1.1.1	T.4-06	No	Yes	VIII.D1.1-a addresses Feedwater System piping and fittings. The material, environment, aging effect requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FW	FW	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-FW-k	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FW	FW	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-FW-g See Note A-FW-h	VIII.E.4-a, VIII.E.4.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.E.4-a addresses Condensate System heat exchanger components. VCSNS determined that the Chemistry Program will manage loss of material where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FW	FW	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-FW-a See Note A-FW-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FW	FW	Valves (Body Only)	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-FW-c See Note A-FW-d	VIII.D1.2-a, VIII.D1.2.1	T.4-06	No	Yes	VIII.D1.2-a addresses Feedwater System valve bodies. The material, environment, aging effect requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FW	FW	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-FW-k	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FW	FW	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-FW-g See Note A-FW-h	VIII.E.4-a, VIII.E.4.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.E.4-a addresses Condensate System heat exchanger components. VCSNS determined that the Chemistry Program will manage loss of material where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
GS	GS	Pipe and Fittings	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow-Accelerated Corrosion	See Note A-GS-a, See	VIII.B1.1-c, VIII.B1.1.3	T.4-06	No	Yes	VIII.B1.1-c addresses Main Steam System piping and fittings. The material, environment,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
								Monitoring Program	Note A-GS-b					aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
GS	GS	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-GS-a, See Note A-GS-b	VIII.B1.1-a, VIII.B1.1.2	T.4-07	No	Yes	VIII.B1.1-a addresses Main Steam System piping and fittings. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
GS	GS	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-GS-c, See Note A-GS-d	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
GS	GS	Valves (Body Only)	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow-Accelerated Corrosion Monitoring Program	See Note A-GS-a, See Note A-GS-b	VIII.B1.2-b, VIII.B1.2.1	T.4-06	No	Yes	VIII.B1.1-c addresses Main Steam System valve bodies. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
HR	HR	Pipe and Fittings	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-HR-g	N/A	N.2-02	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-HR-a See Note A-HR-b	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses carbon steel component exterior surfaces. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
HR	HR	Pipe and Fittings	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-HR-f	N/A	N.2-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-HR-e	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Recombiners (XHR0004A/B) - Electric, H2	HT	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-HR-c See Note A-HR-d	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
HR	HR	Recombiners (XHR0004A/B) - Electric, H2	HT	Nickel-Based Alloy (Inconel 600)	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	N/A	N.2-03	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Recombiners (XHR0004A/B) - Electric, H2	HT	Nickel-Based Alloy (Incoloy 800)	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	N/A	N.2-03	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Recombiners (XHR0004A/B) - Electric, H2	HT	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Tube & Tube Fittings	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-HR-f	N/A	N.2-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-HR-e	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
HR	HR	Valves (Body Only)	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-HR-g	N/A	N.2-02	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-HR-a See Note A-HR-b	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
HR	HR	Valves (Body Only)	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-HR-f	N/A	N.2-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
HR	HR	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-HR-e	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Pipe and Fittings	PB	Carbon Steel	Air-Gas	General Corrosion	Loss of Material	Service Air System Inspection	See Note A-IA-a See Note A-IA-r	VII.H2.3-a, VII.H2.3.1	N.3-13	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, except that VCSNS determined that loss of material due to crevice and pitting corrosion were not applicable aging effects. The credited activity will manage the aging effect and the identified GALL item recommends plant specific evaluation of the credited

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program. The component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-c See Note A-IA-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-e See Note A-IA-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Pipe and Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-g	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management during the period of extended operation as detailed in the applicable note.
IA	IA	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-IA-h	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this credited activity in effectively managing aging during the period of extended operation.
IA	IA	Tanks	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-a	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Tanks	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-e See Note A-IA-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Tube & Tube Fittings	PB	Copper	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-j	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Tube & Tube Fittings	PB	Copper	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-k See Note A-IA-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. VCSNS uses the same AMP (BAC Surveillances) for the external surfaces of carbon steel and copper. Therefore, the material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Tube & Tube Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-g	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-IA-h	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this credited activity in effectively managing aging during the period of extended operation.
IA	IA	Valves (Body Only)	PB	Aluminum	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-I	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Valves (Body Only)	PB	Aluminum	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-m See Note A-IA-q	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. VCSNS uses the same AMP (BAC Surveillances) for the external surfaces of carbon steel and aluminum. Therefore, the material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program.
IA	IA	Valves (Body Only)	PB	Brass	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-j	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Valves (Body Only)	PB	Brass	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-k See Note A-IA-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. VCSNS uses the same AMP (BAC Surveillances) for the external surfaces of carbon steel and brass. Therefore, the material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Valves (Body Only)	PB	Carbon Steel	Air-Gas	General Corrosion	Loss of Material	Service Air System Inspection	See Note A-IA-a See Note A-IA-r	VII.H2.3-a, VII.H2.3.1	N.3-13	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, except that VCSNS determined that loss of material due to crevice and pitting corrosion were not applicable aging effects. The credited activity will manage the aging effect and the identified GALL item recommends plant specific evaluation of the credited program. The component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-c See Note A-IA-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-e See Note A-IA-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Valves (Body Only)	PB	Cast Iron	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-n	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Valves (Body Only)	PB	Cast iron	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-IA-b See Note A-IA-o	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging effects as carbon steel. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
IA	IA	Valves (Body Only)	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-IA-g	N/A	N.3-13	N/A	N/A	The material/environment (dry air) combination for this component/component

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
IA	IA	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-IA-h	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1b	IC	Incore Neutron Detector (Flux) Thimbles (XD0004-IC) - Bottom Mounted Instrumentation	4, 7	Stainless Steel (Type 304)	Borated Water	Wear	Loss of Material	Bottom Mounted Instrumentation Inspection	See Note A-RC1b-f.	IV.B2.6-c, IV.B2.6.2	T.1-40	No	Partial	The Bottom Mounted Instrumentation Inspection is not a program listed separately in GALL. However, the GALL item specifies the ASME Section XI (XI.M1) program as well as recommendations of NRC Bulletin 88-09 for management with no further evaluation recommended. The GALL item also briefly describes the recommendations that are to be included in the credited AMP. The sub-component AMR results are consistent with the identified GALL item in material, environment, and aging effect requiring management. Also, the credited program, in response to IE Bulletin 88-09, is considered sufficient for aging management with no reliance on IWB, IWC or IWD Inservice Inspections. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing the aging effect during the period of extended operation. Lastly, the attributes of the credited program meet the intent of the description provided for the GALL item, although the inspection frequency may or may not correspond to the GALL example, but is in accordance with the VCSNS CLB.
LR	LR	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-LR-a See Note A-LR-b	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
LR	LR	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-LR-c See Note A-LR-d	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
LR	LR	Pipe and Fittings	PB	Carbon Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-LR-e	V.C.1-a, V.C.1.2	T.2-03, T.2-05	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
LR	LR	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-LR-c See Note A-LR-d	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
LR	LR	Valves (Body Only)	PB	Carbon Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-	V.C.1-a,	T.2-03,	Yes, plant specific	No	V.C.1-a addresses containment isolation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									LR-e	V.C.1.1	T.2-05			components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MB	MB	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MB-a, See Note A-MB-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MB	MB	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-MB-c, See Note A-MB-d	VIII.B1.1-a, VIII.B1.1.2	T.4-07	No	Yes	VIII.B1.1-a addresses Main Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MB	MB	Tube & Tube Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MB-a, See Note A-MB-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MB	MB	Tube & Tube Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-MB-c, See Note A-MB-d	VIII.B1.1-a, VIII.B1.1.2	T.4-07	No	Yes	VIII.B1.1-a addresses Main Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MB	MB	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MB-a, See Note A-MB-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MB	MB	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-MB-c, See Note A-MB-d	VIII.B1.2-a, VIII.B1.2.1	T.4-07	No	Yes	VIII.B1.2-a addresses Main Steam System valve bodies. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	EF	Turbine (Casing/Shell Only) (TPP0008), EFWP	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MS-a, See Note A-MS-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	EF	Turbine (Casing/Shell Only) (TPP0008), EFWP	PB	Carbon Steel	Ventilation *	General Corrosion	Loss of Material	Preventive Maintenance Activities - Terry Turbine	See Note A-MS-m, See Note A-MS-n	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Note that the ventilation* environment is ambient building air (i.e., sheltered environment) contained within the MS System components. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	MS	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MS-e, See Note A-MS-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion	Loss of Material	Boric Acid	See Note A-	VIII.H.1-a,	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						(Aggressive Chemical Attack)		Corrosion Surveillances	MS-a, See Note A-MS-b	VIII.H.1.1				carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-MS-c, See Note A-MS-d	VIII.B1.1-a, VIII.B1.1.2	T.4-07	No	Yes	VIII.B1.1-a addresses Main Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	EF	Valve (Body Only) (XVM11025-EF), EFWP Turbine Governor	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MS-a, See Note A-MS-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	EF	Valve (Body Only) (XVM11025-EF), EFWP Turbine Governor	PB	Carbon Steel	Ventilation *	General Corrosion	Loss of Material	Preventive Maintenance Activities - Terry	See Note A-MS-m, See Note A-MS-n	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
								Turbine						consistent with the identified GALL item in material, environment, and aging effect. Note that the ventilation* environment is ambient building air (i.e., sheltered environment) contained within the MS System components. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	MS	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MS-e, See Note A-MS-f	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-MS-c, See Note A-MS-d	VIII.B1.2-a, VIII.B1.2.1	T.4-07	No	Yes	VIII.B1.2-a addresses Main Steam System valve bodies. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.4-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														operation as detailed in the applicable note.
MS	MS	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-MS-g, See Note A-MS-h	V.A.4-a, V.A.4.1	N.4-05	No	Partial	V.A.4-a addresses Containment Spray System components. The component/component type AMR results are consistent with the identified GALL item in material, aging effect and aging management program. Relative to the environment, the identified GALL item references chemically treated borated water, while the component/component type AMR results consider treated water. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
MU	MU	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-MU-c	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MU	MU	Orifices	PB, TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-MU-a See Note A-MU-b	V.A.1-a, V.A.1.2	N.3-17	No	Partial	V.A.1-a addresses Containment Spray System piping and fittings. The component/component type AMR results are consistent with the identified GALL items in material, aging effect/mechanism and aging management program. Relative to the environment, the identified GALL items reference chemically treated borated water, while the component/component type AMR results consider treated water. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
MU	MU	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically	Loss of Material	Maintenance Rule	See Note A-	V.C.1-b,	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Induced Corrosion (MIC)		Structures Program	MU-c	V.C.1.2				components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
MU	MU	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-MU-a See Note A-MU-b	V.A.1-a, V.A.1.1	N.3-17	No	Partial	V.A.1-a addresses Containment Spray System piping and fittings. The component/component type AMR results are consistent with the identified GALL items in material, aging effect/mechanism and aging management program. Relative to the environment, the identified GALL items reference chemically treated borated water, while the component/component type AMR results consider treated water. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
MU	MU	Pipe and Fittings	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MU	MU	Pumps (Casing Only) (XPP0040A/B), Reactor Makeup Water	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-MU-c	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MU	MU	Pumps (Casing Only) (XPP0040A/B), Reactor Makeup Water	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-MU-a See Note A-MU-b	V.A.3-a, V.A.3.1	N.3-17	No	Partial	V.A.3-a addresses Containment Spray System pump casings. The component/component type AMR results are consistent with the identified GALL items in material, aging effect/mechanism and aging management program. Relative to the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														environment, the identified GALL items reference chemically treated borated water, while the component/component type AMR results consider treated water. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
MU	MU	Tank (XTK0039), Reactor Makeup Water Storage	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion, Corrosive Impacts of Alternate Wetting and Drying; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; Above Ground Tank Inspection	See Note A-MU-a See Note A-MU-b	V.D1.8-a, V.D1.8.1	N.3-20	No	Partial	<p>V.D1.8-a addresses the Refueling Water Storage Tank. The component/component type AMR results are consistent with the identified GALL item in material, aging effect/mechanism and aging management program as clarified. Relative to the environment, the identified GALL item references chemically treated borated water, while the component/component type AMR results address treated water, with no boric acid. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meets the intent of the corresponding GALL Chapter XI program (XI.M1) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL Program.</p> <p>In addition, the Above Ground Tank Inspection, a one-time internal inspection not to be confused with GALL program XI.M29, "Above Ground Carbon Steel Tanks", an inspection of inaccessible areas of external tank surfaces, is credited with supplementing the Chemistry Program to detect and characterize the affects of aging (loss of material and/or cracking) due to alternate wetting and drying. Refer to TR00160-020 for a detailed discussion of this activity.</p>
MU	MU	Tank (XTK0039), Reactor Makeup Water	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Storage												for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MU	MU	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-MU-c	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MU	MU	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-MU-a See Note A-MU-b	V.A.1-a, V.A.1.1	N.3-17	No	Partial	V.A.1-a addresses Containment Spray System piping and fittings. The component/component type AMR results are consistent with the identified GALL items in material, aging effect/mechanism and aging management program. Relative to the environment, the identified GALL items reference chemically treated borated water, while the component/component type AMR results consider treated water. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
MU	MU	Tube & Tube Fittings	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MU	MU	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-MU-c	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MU	MU	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program	See Note A-MU-a See Note A-	V.A.4-a, V.A.4.1	N.3-17	No	Partial	V.A.1-a addresses Containment Spray System valve bodies. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC)			MU-b					consistent with the identified GALL items in material, aging effect/mechanism and aging management program. Relative to the environment, the identified GALL items reference chemically treated borated water, while the component/component type AMR results consider treated water. TR00160-010 defines a borated water environment as demineralized water treated with boric acid. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
MU	MU	Valves (Body Only)	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
ND	ND	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Liquid Waste System Inspection	See Note A-ND-a See Note A-ND-b	V.D1.1-a, V.D1.1.2	N.3-21	No	No	V.D1.1-a addresses ECCS piping and fitting internal surfaces in contact with borated water. The component AMR results are consistent with this GALL item # in material and environment. Certain aging effects not addressed by the GALL item are also managed by the credited activity. The GALL aging effect is stress corrosion cracking, which is not applicable to the ND System. The VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion and they will be managed by the Liquid Waste System Inspection. Component/component type is managed by an activity that is not evaluated in GALL Chapter XI and is, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
ND	ND	Pipe and Fittings	PB	Stainless Steel	Embedded	None Identified	None Identified	None Required	Pipe is embedded in the Reactor Building. Also, see TR00160-010, Attachment #	N/A	N.3-08	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									VIII					
ND	ND	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
ND	ND	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-ND-d	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
ND	ND	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Liquid Waste System Inspection	See Note A-ND-a See Note A-ND-b	V.D1.1-a, V.D1.1.2	N.3-21	No	No	V.D1.1-a addresses ECCS piping and fitting internal surfaces in contact with borated water. The component AMR results are consistent with this GALL item # in material and environment. Certain aging effects not addressed by the GALL item are also managed by the credited activity. The GALL aging effect is stress corrosion cracking, which is not applicable to the ND System. The VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion and they will be managed by the Liquid Waste System Inspection. Component/component type is managed by an activity that is not evaluated in GALL Chapter XI and is, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
ND	ND	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
ND	ND	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														operation as detailed in the applicable note.
NG	NG	Pipe and Fittings	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-NG-c	V.C.1-a, V.C.1.1	T.2-03, T.2-05	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
NG	NG	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-NG-a See Note A-NG-b	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
NG	NG	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-NG-d See Note A-NG-e	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
NG	NG	Valves (Body Only)	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-NG-c	V.C.1-a, V.C.1.1	T.2-03, T.2-05	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
NG	NG	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-NG-a See Note A-	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									NG-b					management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
NG	NG	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-NG-d See Note A-NG-e	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RD	RD	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Reactor Building Cooling Unit Inspection	See Note A-RD-a See Note A-RD-b	V.A.1-a, V.A.1.1	N.3-22	No	No	GALL Item Nos. V.A.1-a and V.A.1.1 address piping, fittings and miscellaneous items, and piping and fittings up to isolation valve, respectively. The aging effects for the component/component type are managed by an activity that is not evaluated in GALL Chapter XI and is, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
RD	RD	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Channel Head	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a, See Note A-RH-b	V.D1.5-a, V.D1.5.1	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. An additional VCSNS AMR aging effect is cracking due to stress corrosion (SCC), which is also managed with the referenced programs. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Channel Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-RH-e See Note A-RH-h	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RH-c See Note A-RH-d	V.D1.5-a, V.D1.5.3	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Additional VCSNS AMR aging effects are general and galvanic corrosion, which are also managed with the referenced programs. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Tubes	PB, HT	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.5-a, V.D1.5.2	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. An additional VCSNS AMR aging effect is cracking due to stress corrosion (SCC), which is also managed with the referenced programs. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Tubes	PB, HT	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RH-f See Note A-RH-g	V.D1.5-a, V.D1.5.2	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.5-a, V.D1.5.1	T.2-13	No	Partial	V.D1.5-a addresses ECCS heat exchanger internal surfaces. The component/component type AMR results are consistent with this GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. An additional VCSNS AMR aging effect is cracking due to stress corrosion, which is also managed with the referenced programs. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RH-f See Note A-RH-g	V.D1.5-a, V.D1.5.1	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XPP0031A/B-HE1), RH Pump Seal - Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment # X	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Heat Exchangers (XPP0031A/B-HE1), RH Pump Seal - Head	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RH-f See Note A-RH-g	V.D1.5-a, V.D1.5.1	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XPP0031A/B-HE1), RH Pump Seal - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-RH-e See Note A-RH-h	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the period of extended operation.
RH	RH	Heat Exchangers (XPP0031A/B-HE1), RH Pump Seal - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RH-c See Note A-RH-d	V.D1.5-a, V.D1.5.3	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Additional VCSNS AMR aging effects are loss of material due to general and galvanic corrosion, which are also managed with the referenced programs. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XPP0031A/B-HE1), RH Pump Seal - Tubes	PB, HT	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.5-a, V.D1.5.2	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. An additional VCSNS AMR aging effect is cracking due to stress corrosion (SCC), which is also managed with the referenced programs. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XPP0031A/B-HE1), RH Pump Seal - Tubes	PB, HT	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RH-f See Note A-RH-g	V.D1.5-a, V.D1.5.2	T.2-13	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. The Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. However, the attributes of the credited program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes of this program/activity in effectively managing aging during the period of extended operation.
RH	RH	Orifices	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.1-a, V.D1.1.2	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and credited program. However, additional VCSNS AMR aging effects requiring management include loss of material due to crevice and pitting corrosion, which are also managed with the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RH	RH	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.1-a, V.D1.1.2	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and credited program. However, additional VCSNS AMR aging effects requiring management include loss of material due to crevice and pitting corrosion, which are also managed with the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RH	RH	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RH-j	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Pumps (Casing Only) (XPP0031A/B), RHR	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.2-a, V.D1.2.1	T.2-15	No	Yes	V.D1.2-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and credited program. However, additional VCSNS AMR aging effects requiring management include loss of material due to crevice and pitting corrosion, which are also managed with the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RH	RH	Pumps (Casing Only) (XPP0031A/B), RHR	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.1-a, V.D1.1.2	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and credited program. However, additional VCSNS AMR aging effects requiring management include loss of material due to crevice and pitting corrosion, which are also managed with the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RH	RH	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RH-j	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RH-a See Note A-RH-b	V.D1.4-b, V.D1.4.1	T.2-15	No	Yes	V.D1.4-b addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and credited program. However, additional VCSNS AMR aging effects requiring management include loss of material due to crevice and pitting corrosion, which are also managed with the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RH	RH	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RH	RH	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RM	RM	Instrumentation (Pressure Retaining Only) - (RML0002A/B)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-a See Note A-RM-b	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will sufficiently manage loss of material for this component/component type, where the applicable GALL program is "Closed-Cycle Cooling Water System." Except as noted, the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of a GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RM	RM	Instrumentation (Pressure Retaining Only) - (RML0001, RML0002A/B, RML0004)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RM-e	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RM	RM	Instrumentation (Pressure Retaining Only) - (RML0001, RML0004)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-c See Note A-RM-d	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RM	RM	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-c See Note A-RM-d	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RM	RM	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-RM-e	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
RM	RM	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-a See Note A-RM-b	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will sufficiently manage loss of material for this component/component type, where the applicable GALL program is "Closed-Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RM	RM	Tanks (RML0001-TK1, RML0004-TK1)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-c See Note A-RM-d	V.D1.8-a, V.D1.8.1	N.3-06	No	Yes	V.D1.8-a addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														meeting the intent of the pertinent GALL program.
RM	RM	Tanks (RML0001-TK1, RML0002A,B-TK1, RML0004-TK1)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RM-e	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RM	RM	Tanks (RML0002A,B-TK1)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-a See Note A-RM-b	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will sufficiently manage loss of material for this component/component type, where the applicable GALL program is "Closed-Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of a GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RM	RM	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-c See Note A-RM-d	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RM	RM	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RM-e	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects were determined to require management during the period of extended operation as detailed in the applicable note.
RM	RM	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-a See Note A-RM-b	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will sufficiently manage loss of material for this component/component type, where the applicable GALL program is "Closed-Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of the credited program meet the intent of a GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RM	RM	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-c See Note A-RM-d	V.D1.4-b, V.D1.4.1	N.3-06	No	Yes	V.D1.4-b addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RM	RM	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RM-e	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RM	RM	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RM-a See Note A-RM-b	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will sufficiently manage loss of material for this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														component/component type, where the applicable GALL program is "Closed-Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SA	SA	Pipe and Fittings	PB	Carbon Steel	Air-Gas	General Corrosion	Loss of Material	Service Air System Inspection	See Note A-SA-a See Note A-SA-b	VII.H2.3-a, VII.H2.3.1	N.3-14	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, except that VCSNS determined that loss of material due to crevice and pitting corrosion were not applicable aging effects. The credited activity will manage the aging effect and the identified GALL item recommends plant specific evaluation of the credited program. The component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SA	SA	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SA-c See Note A-SA-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SA	SA	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SA-e See Note A-SA-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SA	SA	Tube & Tube Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-SA-g	VII.F2.4-a, VII.F2.4.1	T.3-05	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SA	SA	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SA	SA	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SA-h	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SA	SA	Valves (Body Only)	PB	Carbon Steel	Air-Gas	General Corrosion	Loss of Material	Service Air System Inspection	See Note A-SA-a See Note A-SA-b	VII.H2.3-a, VII.H2.3.1	N.3-14	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, except that VCSNS determined that loss of material due to crevice and pitting corrosion were not applicable aging effects. The credited activity will manage the aging effect and the identified GALL item recommends plant specific evaluation of the credited program. The component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation.
SA	SA	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SA-c See Note A-SA-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SA	SA	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SA-e See Note A-SA-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SA	SA	Valves (Body Only)	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-SA-g	VII.F2.4-a, VII.F2.4.1	T.3-05	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SA	SA	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SA	SA	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									SA-h					components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-a, See Note A-SF-b	V.D1.6-a, V.D1.6.1	N.3-06	No	Partial	V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System." The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SF-d, See Note A-SF-e	V.D1.5-b, V.D1.5.3	T.3-14	No	Yes	V.D1.5-b addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI activity attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SF-d, See Note A-SF-e	V.D1.5-b, V.D1.5.3	T.3-14	No	Yes	V.D1.5-b addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI activity

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-h, See Note A-SF-ii	V.D1.6-a, V.D1.6.3	T.3-15	No	Partial	V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for carbon steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System." The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Tubes	PB, HT	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-c, See Note A-SF-b	V.D1.5-a, V.D1.5.2	N.3-06	No	Partial	V.D1.5-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for stainless steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System." The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Tubes	PB, HT	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-f, See Note A-SF-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-c, See Note A-SF-b	V.D1.5-a, V.D1.5.2	N.3-06	No	Partial	V.D1.5-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for stainless steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System." The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-f, See Note A-SF-g	V.D1.5-a, V.D1.5.2	T.3-15	No	Partial	V.D1.5-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program will manage loss of material for stainless steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System." The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
SF	FH	Nuclear Fuel Handling Equipment and Fixtures (XNF0008-FH) - Fuel Transfer Tube	PB	Stainless Steel	Embedded	None Identified	None Identified	None Required	TR00160-010, Attachment VIII	N/A	N.3-08	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII, or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	FH	Nuclear Fuel Handling Equipment and Fixtures (XNF0008-FH) - Fuel Transfer Tube	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SF-k	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	FH	Nuclear Fuel Handling Equipment and Fixtures (XNF0008-FH) - Fuel Transfer Tube	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-SF-j	VII.F3.4-a	N.3-01	Yes, plant specific	No	VII.F3.4-a addresses Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Orifices	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-c, See Note A-SF-b	VII.A3.3-b, VII.A3.3.1	T.3-13	No	Partial	VII.A3.3-b addresses Spent Fuel Pool Cooling and Cleanup System components. VCSNS determined that cracking due to stress corrosion cracking is not an aging effect requiring management for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL Item, which has a similar material, environment and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SF-k	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
SF	RW	Pipe and Fittings (RW)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-c, See Note A-SF-b	V.D1.1-a, V.D1.1.6	T.2-15	No	Partial	V.D1.1-a addresses Emergency Core Cooling System piping and fitting internal surfaces. VCSNS determined that cracking due to stress corrosion cracking is not an aging effect requiring management for this component. Except as noted, the AMR results for this component/component type are consistent with the identified GALL Item which has a similar material, environment, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Pipe and Fittings (SF)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-c, See Note A-SF-b	VII.A3.3-b, VII.A3.3.1	T.3-13	No	Partial	VII.A3.3-b addresses Spent Fuel Pool Cooling and Cleanup System components. VCSNS determined that cracking due to stress corrosion cracking is not an aging effect requiring management for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL Item, which has a similar material, environment and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-SF-I	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														identified GALL item in material, environment and aging effects (except that VCSNS found that loss of material due to crevice and pitting corrosion are not aging effects for stainless steel exposed to ambient air). However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SF	SF	Pipe and Fittings	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-SF-j	VII.F3.4-a	N.3-01	Yes, plant specific	No	VII.F3.4-a addresses Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	RW	Pipe and Fittings (RW)	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.2-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII, or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Pipe and Fittings (SF)	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII, or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Pumps (Casing Only) (XPP0032A/B), Spent Fuel	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-c, See Note A-SF-b	VII.A3.3-b, VII.A3.3.1	T.3-13	No	Partial	VII.A3.3-b addresses Spent Fuel Pool Cooling and Cleanup System components. VCSNS determined that cracking due to stress corrosion cracking is not an aging effect requiring management for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL Item, which has a similar material, environment and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														meeting the intent of the pertinent GALL program.
SF	SF	Pumps (Casing Only) (XPP0032A/B), Spent Fuel	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SF-k	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	RW	Tank (XTK0025), Refueling Water Storage (RWST)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Corrosive Impacts of Alternate Wetting and Drying	Loss of Material; Loss of Material/Cracking	Chemistry Program; Above Ground Tank Inspection	See Note A-SF-c, See Note A-SF-b	V.D1.8-a, V.D1.8.1	N.2-07	No	No	<p>V.D1.8-a addresses cracking of the Refueling Water Storage Tank internal surfaces (V.D1.8.1). Although the component/component type AMR results are consistent with the identified GALL item in material, environment, and aging management program as clarified, VCSNS determined that cracking due to stress corrosion cracking is not an aging effect requiring management for this component, as described in the referenced note, except as clarified. Rather, the Chemistry Program is credited for managing the aging due to crevice and pitting corrosion (not identified as valid aging mechanisms for the GALL item). The attributes of the credited program meet the intent of the identified GALL program (XI.M1). Refer to TR00160-020 for a detailed discussion of the attributes of this program in managing the effects of aging during the period of extended operation and in meeting the intent of the pertinent GALL program.</p> <p>In addition, the Above Ground Tank Inspection, a one-time internal inspection not to be confused with GALL program XI.M29, "Above Ground Carbon Steel Tanks", an inspection of inaccessible areas of external tank surfaces, is credited with supplementing the Chemistry Program to detect and characterize the affects of aging (loss of material and/or cracking) due to alternate wetting and drying. Refer to TR00160-020 for a detailed discussion of this activity.</p>
SF	RW	Tank (XTK0025), Refueling Water Storage (RWST)	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.2-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII, or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Tube & Tube Fittings	PB	Stainless Steel	Borated	Crevice Corrosion,	Loss of Material	Chemistrv	See Note A-	VII.A3.3-b,	T.3-13	No	Partial	VII.A3.3-b addresses Spent Fuel Pool

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
					Water	Pitting Corrosion		Program	SF-c, See Note A-SF-b	VII.A3.3.1				Cooling and Cleanup System components. VCSNS determined that cracking due to stress corrosion cracking is not an aging effect requiring management for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL Item, which has a similar material, environment and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SF-k	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Tube & Tube Fittings	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII, or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SF-c, See Note A-SF-b	VII.A3.3-b, VII.A3.3.1	T.3-13	No	Partial	VII.A3.3-b addresses Spent Fuel Pool Cooling and Cleanup System components. VCSNS determined that cracking due to stress corrosion cracking is not an aging effect requiring management for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL Item, which has a similar material, environment and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SF-k	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Valves (Body Only)	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-SF-j	VII.F3.4-a	N.3-01	Yes, plant specific	No	VII.F3.4-a addresses Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	SF	Valves (Body Only)	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010, Attachment XII	N/A	N.3-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII, or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Orifices	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SI-a See Note A-SI-b	V.D1.1-a, V.D1.1.3	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the pertinent GALL program.
SI	SI	Orifices	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SI-a See Note A-SI-b	V.D1.1-a, V.D1.1.3	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Orifices	PB, TH	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SI-ii	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Pipe and Fittings	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-SI-h	N/A	N.2-02	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SI-a See Note A-SI-b	V.D1.1-a, V.D1.1.3	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SI-ii	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Tanks (XTK0028A/B/C), SI Accumulator	PB	Stainless Steel Cladding	Air-Gas (Moist)	None Identified	None Identified	None Required	See Note A-SI-h	N/A	N.2-01	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Tanks (XTK0028A/B/C), SI Accumulator	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SI-e See Note A-SI-f	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Tanks (XTK0028A/B/C), SI Accumulator	PB	Stainless Steel Cladding	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SI-a See Note A-SI-b	V.D1.7-b, V.D1.7.3	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SI-a See Note A-SI-b	V.D1.1-a, V.D1.1.3	T.2-15	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SI-ii	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	None Identified	None Identified	None Required	See Note A-SI-d	V.C.1-b	N.2-06	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Valves (Body Only)	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-SI-g	N/A	N.2-02	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SI-e See Note A-SI-f	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Valves (Body Only)	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-SI-h	N/A	N.2-02	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SI-a See Note A-SI-b	V.D1.4-b, V.D1.4.1	T.2-15	No	Yes	V.D1.4-b addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Valves (Body Only)	PB	Stainless Steel	Reactor	None Identified	None Identified	None Required	TR00160-010,	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
					Building				Attachment IX					components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Valves (Body Only)	PB	Stainless Steel	Treated Water	None Identified	None Identified	None Required	See Note A-SI-d	V.C.1-b	N.2-06	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Orifices	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-a See Note A-SP-b	V.A.1-a, V.A.1.2	T.2-15	No	Yes	V.A.1-a addresses Containment Spray System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SP	SP	Orifices	PB, TH	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SP-I	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Orifices	PB, TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program	See Note A-SP-c See Note A-	VII.C2.2-a, VII.C2.2.1	N.2-05	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC)			SP-d					consistent with the identified GALL items in material, environment, and aging effect/mechanisms. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SP	SP	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SP-e See Note A-SP-f	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SP	SP	Pipe and Fittings	PB	Carbon Steel	Yard	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SP-ii See Note A-SP-j	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SP	SP	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-a See Note A-SP-b	V.A.1-a, V.A.1.1	T.2-15	No	Yes	V.A.1-a addresses Containment Spray System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SP	SP	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SP-I	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-c See Note A-SP-d	VII.C2.2-a, VII.C2.2.1	N.2-05	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SP	SP	Pipe and Fittings	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	TR00160-010, Attachment IX	N/A	N.2-01	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Pipe and Fittings	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010,	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									Attachment XII					components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Pumps (Casing Only) (XPP0038A/B), Reactor Building Spray	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-a See Note A-SP-b	V.A.3-a, V.A.3.1	T.2-15	No	Yes	V.A.3-a addresses Containment Spray System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SP	SP	Pumps (Casing Only) (XPP0038A/B), Reactor Building Spray	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SP-I	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Tank (XTK0060), Sodium Hydroxide Storage	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-SP-k	N/A	N.2-02	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Tank (XTK0060), Sodium Hydroxide Storage	PB	Carbon Steel	Yard	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SP-ii See Note A-SP-j	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SP	SP	Spray Nozzles	PB, SP	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	TR00160-010,	N/A	N.2-01	N/A	N/A	The material/environment combination for this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									Attachment IX					component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-a See Note A-SP-b	V.A.1-a, V.A.1.1	T.2-15	No	Yes	V.A.1-a addresses Containment Spray System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SP	SP	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SP-I	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-c See Note A-SP-d	VII.C2.2-a, VII.C2.2.1	N.2-05	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SP	SP	Tube & Tube Fittings	PB	Stainless Steel	Yard	None Identified	None Identified	None Required	TR00160-010,	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation

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Database AMR Query

Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									Attachment XII					components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SP-e See Note A-SP-f	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SP	SP	Valves (Body Only)	PB	Carbon Steel	Yard	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SP-ii See Note A-SP-j	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SP	SP	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-a See Note A-SP-b	V.A.4-a, V.A.4.1	T.2-15	No	Yes	V.A.4-a addresses Containment Spray System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
SP	SP	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SP-I	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SP-c See Note A-SP-d	VII.C2.2-a, VII.C2.2.1	N.2-05	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0001, 2, 4, 5), Primary Side Sample Cooler - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SS-e See Note A-SS-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0001, 2, 4, 5), Primary Side Sample Cooler - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-c See Note A-SS-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0001, 2, 4, 5), Primary Side Sample Cooler - Tube	PB, HT	Nickel-Based Alloy	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SS-j See Note A-SS-k	VII.E1.8-b, VII.E1.8.3	N.3-07	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in environment. Relative to material, the AMR results consider a nickel-based alloy, while the GALL item is stainless steel. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0001, 2, 4, 5), Primary Side Sample Cooler - Tube	PB, HT	Nickel-Based Alloy	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SS-l See Note A-SS-m	VII.E1.8-b, VII.E1.8.3	N.3-07	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in environment. Relative to material, the AMR results consider a nickel-based alloy, while the GALL item is stainless steel. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0022A/B), SS Auxiliary Sample Cooler - Tube	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-a See Note A-SS-b	V.D1.5-a, V.D1.5.2	N.3-06	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0022A/B), SS Auxiliary Sample Cooler - Tube	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-f See Note A-SS-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water system components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0003A/B/C), SG Blowdown Sample Cooler - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SS-e See Note A-SS-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0003A/B/C), SG Blowdown Sample Cooler - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-c See Note A-SS-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water system components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0003A/B/C), SG Blowdown Sample Cooler - Tube	PB	Nickel-Based Alloy	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-SS-I See Note A-SS-m	VII.E1.8-b, VII.E1.8.3	N.3-07	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in environment. Relative to material, the AMR results consider a nickel-based alloy, while the GALL item is stainless steel. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
SS	SS	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SS-h See Note A-SS-o	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SS	SS	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-c See Note A-SS-d	VIII.E.1-b, VIII.E.1.1	N.3-17	Yes, detection of aging effects is to be evaluated	Partial	VIII.E.1-b addresses Condensate System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-a See Note A-SS-b	V.D1.1-a, V.D1.1.2	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SS	SS	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-SS-p	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
SS	SS	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-f See Note A-SS-g	V.D1.5-a, V.D1.5.2	N.3-17	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SS	SS	Pipe and Fittings	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-SS-q	VII.F2.4-a, VII.F2.4.1	N.3-01	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SS	SS	Pumps (Casing Only) (XPP0162A/B), SS System Flushing Water	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SS-e See Note A-SS-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SS	SS	Pumps (Casing Only) (XPP0162A/B), SS System Flushing Water	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-c See Note A-SS-d	VIII.E.1-b, VIII.E.1.1	N.3-17	Yes, detection of aging effects is to be evaluated.	Partial	VIII.E.1-b addresses Condensate System piping. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effects, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Tank (XTK0147), Flushing Water Storage	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SS-p	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management during the period of extended operation as detailed in the applicable note.
SS	SS	Tank (XTK0147), Flushing Water Storage	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion, Corrosive Impacts of Alternate Wetting and Drying; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; Above Ground Tank Inspection	See Note A-SS-f See Note A-SS-g	V.D1.5-a, V.D1.5.2	N.3-20	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. VCSNS determined that the Chemistry Program and Above Ground Tank Inspection will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SS	SS	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-a See Note A-SS-b	V.D1.1-a, V.D1.1.2	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-SS-p	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														operation.
SS	SS	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-f See Note A-SS-g	V.D1.5-a, V.D1.5.2	N.3-17	No	Yes	V.D1.5-a addresses Emergency Core Cooling System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SS	SS	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-a See Note A-SS-b	V.D1.4-b, V.D1.4.1	N.3-06	No	Yes	V.D1.4-b addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects were determined to require management during the period of extended operation as detailed in the applicable note.
SS	SS	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SS-p	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SS	SS	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-f See Note A-SS-g	V.D1.5-a, V.D1.5.2	N.3-17	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SS	SS	Valves (Body Only)	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-SS-q	VII.F2.4-a, VII.F2.4.1	N.3-01	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SW	SW	Couplings	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.1-a, VII.C3.1.1	T.3-17	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Couplings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-e	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Couplings	PB	Carbon Steel	Underground	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Buried Piping and Tanks Inspection	See Note A-SW-j	VII.H1.1-b, VII.H1.1.2	T.3-18	Yes, detection of aging effects and operating experience are to be further evaluated.	Partial	VII.H1.1-b applies to underground Diesel Fuel Oil piping and fittings. The material, environment, aging effects requiring management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effects and credited activity. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Expansion Joints, Mechanical (XEJ0040A/B, 41A/B) - piping	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.1-a, VII.C3.1.1	T.3-17	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program in effectively managing aging during the period of extended operation.
SW	SW	Expansion Joints, Mechanical (XEJ0040A/B, 41A/B) - piping	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-e	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Expansion Joints, Mechanical (XEJ0040A/B, 41A/B) - bellows	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.2-a, VII.C3.2.1	T.3-17	No	Partial	VII.C3.2-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to stainless steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Expansion Joints, Mechanical (XEJ0040A/B, 41A/B) - bellows	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SW-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SW	SW	Motors (MPP0039/B/C), SW Pumps Air Motor Casings/Integral Bearing Cooler only	PB, HT	Copper	Oil	None Identified	None Identified	None Required	See Note A-SW-ii	VII.G.7-b, VII.G.7.2	T.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation as detailed in the applicable note.
SW	SW	Motors (MPP0039/B/C), SW Pumps Air Motor Casings/Integral Bearing Cooler only	PB, HT	Copper	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-c, See Note A-SW-d	VII.C3.1-a, VII.C3.1.1	T.3-17, T.3-29	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink components. VCSNS determined that the Service Water System Reliability and In-Service Testing Program will manage loss of material where the GALL item references "Open Cycle Cooling Water System" and "Selective Leaching of Materials." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Orifices	PB, TH	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.2-a, VII.C3.2.1	T.3-17	No	Partial	VII.C3.2-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to stainless steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SW-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SW	SW	Pipe and Fittings	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic	Loss of Material; Heat Exchanger	Service Water System Reliability	See Note A-SW-a, See	VII.C3.1-a, VII.C3.1.1	T.3-17	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink components. VCSNS determined that the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Fouling	and In-Service Testing Program	Note A-SW-b					GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-g	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-e	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Pipe and Fittings	PB	Carbon Steel	Underground	Crevice Corrosion, Galvanic Corrosion, General Corrosion,	Loss of Material	Buried Piping and Tanks Inspection	See Note A-SW-j	VII.H1.1-b, VII.H1.1.2	T.3-18	Yes, detection of aging effects and operating experience are to be	Partial	VII.H1.1-b applies to underground Diesel Fuel Oil piping and fittings. The material, environment, aqinq effects requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Microbiologically Induced Corrosion (MIC), Pitting Corrosion						further evaluated.		management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effects and credited activity. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Pipe and Fittings (Thermowells)	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.2-a, VII.C3.2.1	T.3-17	No	Partial	VII.C3.2-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to stainless steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Pipe and Fittings (Thermowells)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SW-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SW	SW	Pipe and Fittings	PB	Carbon Steel	Embedded	None Identified	None Identified	None Required	TR00160-010, Attachment VIII	N/A	N.3-08	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SW	SW	Pumps (Casing Only) (XPP0045A/B), SW Booster Pumps	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.1-a, VII.C3.1.1	T.3-17	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates								type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Pumps (Casing Only) (XPP0045A/B), SW Booster Pumps	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-e	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Pumps (Casing Only) (XPP0039AB/C), SW Pumps	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.1-a, VII.C3.1.1	T.3-17	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Pumps (Casing Only) (XPP0039AB/C), SW Pumps	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-e	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aqinq effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Trash Racks (XRT0007A/B/C)	FI	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.1-a, VII.C3.1.1	T.3-17	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Traveling Screens (XRS0002A/B/C) - cloth screen	FI	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.2-a, VII.C3.2.1	T.3-17	No	Partial	VII.C3.2-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to stainless steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Traveling Screens	FI	Carbon Steel	Raw Water	Crevice Corrosion,	Loss of Material;	Service Water	See Note A-	VII.C3.1-a,	T.3-17	No	Partial	VII.C3.1-a addresses Ultimate Heat Sink

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		(XRS0002A/B/C) - screen frame				Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Heat Exchanger Fouling	System Reliability and In-Service Testing Program	SW-a, See Note A-SW-b	VII.C3.1.1				components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Tube & Tube Fittings	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.2-a, VII.C3.2.1	T.3-17	No	Partial	VII.C3.2-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to stainless steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SW	SW	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-SW-f	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
SW	SW	Valves (Body Only)	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.2-a, VII.C3.2.1	T.3-17	No	Partial	VII.C3.2-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to carbon steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-g	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SW-e	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Valves (Body Only)	PB	Stainless Steel	Raw Water	Crevice Corrosion, Erosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Biological Materials, Particulates	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-SW-a, See Note A-SW-b	VII.C3.2-a, VII.C3.2.1	T.3-17	No	Partial	VII.C3.2-a addresses Ultimate Heat Sink components. VCSNS determined that the GALL item referenced activity "Selective Leaching of Materials" is not applicable to stainless steel for this component/component type. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SW	SW	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SW	SW	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SW-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
TR	TR	Demineralizers (XDM0007A/B/C/D)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effects/mechanisms requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program (XI.M2) attributes. Refer to TR00160-020 for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
TR	TR	Demineralizers (XDM0007A/B/C/D)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
TR	TR	Heat Exchanger (XHE0001), Moderating - Channel Head	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a, V.D1.6.1	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0001), Moderating - Channel Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
TR	TR	Heat Exchanger (XHE0001), Moderating - Shell	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a, V.D1.6.3	N.3-06	No	Partial	V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														<p>GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0001), Moderating - Shell	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	<p>V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.</p>
TR	TR	Heat Exchanger (XHE0001), Moderating - Tubes	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a, V.D1.6.2	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
TR	TR	Heat Exchanger (XHE0001), Moderating - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0008), Letdown Chiller - Channel Head	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a, V.D1.6.1	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0008), Letdown Chiller - Channel Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
TR	TR	Heat Exchanger (XHE0008), Letdown Chiller - Tubes	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a, V.D1.6.2	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0008), Letdown Chiller - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-TR-c, See Note A-TR-d	VII.C2.2-a	T.3-15	No	Partial	<p>VII.C2.2-a addresses Closed Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will manage loss of material for stainless steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System." The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item which has the same material, environment and aging effects. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0008), Letdown Chiller - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC)								<p>intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0008), Letdown Chiller - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-TR-c, See Note A-TR-d	VII.C2.2-a	T.3-15	No	Partial	<p>VII.C2.2-a addresses Closed Cycle Cooling Water System components. VCSNS determined that the Chemistry Program will manage loss of material for stainless steel heat exchanger components, where the applicable GALL program is "Closed Cycle Cooling Water System." The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects. However, the attributes of this program/activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0015), Letdown Reheat - Shell	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a, V.D1.6.3	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
TR	TR	Heat Exchanger (XHE0015), Letdown Reheat - Shell	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
TR	TR	Heat Exchanger (XHE0015), Letdown Reheat - Tubes	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a, V.D1.6.2	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0015), Letdown Reheat - Tubes	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	TR00160-010, Attachment VII	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management during the period of extended operation as detailed in the applicable note.
TR	TR	Heat Exchanger (XHE0015), Letdown Reheat - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.6-a	N.3-06	No	Partial	<p>V.D1.6-a addresses Emergency Core Cooling System heat exchangers. VCSNS determined that the Chemistry Program, which meets the intent of GALL program XI.M2, will manage loss of material for stainless steel heat exchanger components where the applicable GALL program is "Closed Cycle Cooling Water System."</p> <p>The material, environment and aging effects requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effects, except that the GALL item does not address stress corrosion cracking to which the heat exchanger is considered susceptible. Furthermore, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.</p>
TR	TR	Heat Exchanger (XHE0015), Letdown Reheat - Tubesheet(s)	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	TR00160-010, Attachment VII	V.C.1-b	N.3-01	Yes, plant specific	No	<p>V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.</p>
TR	TR	Orifices (IFE00385)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	<p>V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the pertinent GALL program.
TR	TR	Orifices (IFE00385)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
TR	TR	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
TR	TR	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-TR-e	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, except that VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for piping external surfaces. The identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
TR	TR	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
TR	TR	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
TR	TR	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-TR-a, See Note A-TR-b	V.D1.4-b, V.D1.4.1	N.3-06	No	Yes	V.D1.4-b addresses Emergency Core Cooling System components. The material, environment and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment and credited program. VCSNS determined that cracking due to stress corrosion cracking (SCC) is not an aging effect requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
TR	TR	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X.	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VL	VL	Air Handling Units (XAH-01A/B-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Units (XAH-01A/B-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Unit (XAH-02-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Unit (XAH-02-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-04A/B-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Units (XAH-04A/B-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Unit (XAH-06-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Unit (XAH-06-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Unit (XAH-08-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Unit (XAH-08-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-09A/B-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Units (XAH-09A/B-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-11A/B-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Units (XAH-11A/B-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-19A/B-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Units (XAH-19A/B-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-32-VL, XAH-33-VL)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Air Handling Units (XAH-32-VL, XAH-33-VL)	PB	Galvanized Steel	Ventilation	Galvanic Corrosion	Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.1-a, VII.F1.1.2	T.3-05	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice, general MIC, and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Cooling Coils - Fins	HT	Copper	Ventilation	Galvanic Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Preventive Maintenance Activities - Ventilation Systems Inspections	See Note A-VL-b See Note A-VL-c	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Cooling Coils - Headers	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Cooling Coils - Headers	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-VL-d See Note A-VL-e	VII.F1.3-a, VII.F1.3.1	T.3-15	No	Partial	VII.F1.3-a addresses Control Room Area Ventilation System piping and fittings. VCSNS determined that the Chemistry Program will manage the applicable aging effects where the GALL item references "Closed Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited programs. Additionally, the attributes of this program/activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
VL	VL	Cooling Coils - Tubes	PB, HT	Copper	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Chemistry Program, Heat Exchanger Inspections	See Note A-VL-d See Note A-VL-e	N/A	N.3-28	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
VL	VL	Cooling Coils - Tubes	PB, HT	Copper	Ventilation	Galvanic Corrosion;	Loss of Material;	Preventive	See Note A-	VII.F1.2-a,	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Particulates	Heat Exchanger Fouling	Maintenance Activities - Ventilation Systems Inspections	VL-b See Note A-VL-c	VII.F1.2.1				Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Ductwork (including fire damper housings)	PB	Galvanized Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VL-a See Note A-VL-f	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VL	VL	Ductwork (including fire damper housings)	PB	Galvanized Steel	Ventilation	None Identified	None Identified	None Required	See Note A-VL-b See Note A-VL-c	VII.F1.1-a	N.3-03	Yes, plant specific	No	VII.F1.1-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VL	VL	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-VL-a See Note A-VL-f	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VL	VL	Tube & Tube Fittings	PB	Stainless Steel	Ventilation	None Identified	None Identified	None Required	See Note A-VL-c	VII.F1.4-a	N.3-02	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Pumps (Casing Only) (XPP0048A/B/C), Chilled Water	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VU	VU	Pumps (Casing Only) (XPP0048A/B/C), Chilled Water	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-VU-b See Note A-VU-c	VII.C2.3-a, VII.C2.3.1	T.3-15	No	Partial	VII.C2.3-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Fins	HT	Copper	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-ii	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														applicable note.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Shells	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Shells	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Tubes	PB, HT	Copper	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-ii	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Tubes	PB, HT	Copper	Raw Water	Crevice Corrosion, Erosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Particulates, Biological Materials	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-VU-u See Note A-VU-v	VII.C1.3-a, VII.C1.3.5	T.3-17	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Tubesheets	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Condensers	PB	Carbon Steel	Raw Water	Crevice Corrosion,	Loss of Material;	Service Water	See Note A-	VII.C1.3-a,	T.3-17	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		(XHX0001A/B/C-CN1), Chilled Water Unit - Tubesheets				Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Particulates, Biological Materials	Heat Exchanger Fouling	System Reliability and In-Service Testing Program	VU-s See Note A- VU-t	VII.C1.3.4				Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Water boxes	PB	Carbon Steel	Raw Water	Crevice Corrosion, Erosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion; Particulates, Biological Materials	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A- VU-s See Note A- VU-t	VII.C1.3-a, VII.C1.3.3	T.3-17	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Water boxes	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A- VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Fins	HT	Copper	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A- VU-ii	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Evaporators (XHX0001A/B/C-EV1),	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A- VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Chilled Water Unit - Shells												for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Shells	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Tubes	PB, HT	Copper	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-ii	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Tubes	PB, HT	Copper	Treated Water	Crevice Corrosion, Erosion-Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program, Heat Exchanger Inspections	See Note A-VU-n See Note A-VU-o	N/A	N.3-28	N/A	N/A	Component/component type has a unique material and environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program/activity in effectively managing aging during the period of extended operation.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Tubesheets	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Tubesheets	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-VU-b See Note A-VU-c	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Water boxes	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Water boxes	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-VU-b See Note A-VU-c	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect/mechanisms. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Compressors (XHX0001A/B/C-GC1), Chilled Water Unit - Housing Only	PB	Cast Iron	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-k	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Compressors	PB	Cast Iron	Sheltered	Galvanic Corrosion,	Loss of Material	Inspections for	See Note A-	VII.I.1-b,	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		(XHX0001A/B/C-GC1), Chilled Water Unit - Housing Only				General Corrosion, Pitting Corrosion		Mechanical Components	VU-j	VII.I.1.1				carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging effects as carbon steel, if both materials were exposed to a sheltered environment. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VU	VU	Flow Control Chambers (XHX0001A/B/C-PS1), Chilled Water Unit	PB, TH	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Flow Control Chambers (XHX0001A/B/C-PS1), Chilled Water Unit	PB, TH	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VU	VU	Pumps (XPP0186A/B/C), Chilled Water Cleanup System Fluid Ejector	PB, GR	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Pumps (XPP0186A/B/C), Chilled Water Cleanup System Fluid Ejector	PB, GR	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VU	VU	Pumps (XPP0186A/B/C), Chilled Water Cleanup System Fluid Ejector	PB, GR	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-g	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Pumps (XPP0186A/B/C), Chilled Water Cleanup System Fluid Ejector	PB, GR	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Sight Glasses (IMG09166A/B/C), Chilled Water Unit Cleanup System	PB	Glass	Air-Gas	None Identified	None Identified	None Required	See Note A-VU-w	N/A	N.3-23	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Sight Glasses (IMG09166A/B/C), Chilled Water Unit Cleanup System	PB	Glass	Sheltered	None Identified	None Identified	None Required	See Note A-VU-x	N/A	N.3-23	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Tube & Tube Fittings, Chilled Water Cleanup System	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-g	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Eductor, Chilled Water Lubrication System	PB, GR	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-p	VII.G.7-a	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
VU	VU	Eductor, Chilled Water Lubrication System	PB, GR	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
VU	VU	Eductor, Chilled Water Lubrication System	PB, GR	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Filters - Chilled Water Lubrication System	PB, FI	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Pumps (Casing Only) (XHX0001A/B/C-PP1, 2, 3, 4) - Chilled Water Unit Lubrication System	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Pumps (Casing Only) (XHX0001A/B/C-PP1, 2, 3, 4) - Chilled Water Unit Lubrication System	PB	Cast Iron	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-j	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging effects as carbon steel, if both materials were exposed to a sheltered environment. The component/component type AMR results are consistent with the identified GALL item in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Pipe and Fittings, Chilled Water Lubrication System	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-p	VII.G.7-a	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Pipe and Fittings, Chilled Water Lubrication System	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-q	VIII.G.5-d	N.3-05	Yes, plant specific	No	GALL Item No. VIII.G.5-d addresses bearing oil coolers. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Tube & Tube Fittings, Chilled Water Lubrication System	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-q	VIII.G.5-d	N.3-05	Yes, plant specific	No	GALL Item No. VIII.G.5-d addresses bearing oil coolers. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Valves (Body Only), Chilled Water Lubrication System	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-p	VII.G.7-a	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Valves (Body Only), Chilled Water Lubrication System	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-q	VIII.G.5-d	N.3-05	Yes, plant specific	No	GALL Item No. VIII.G.5-d addresses bearing oil coolers. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
VU	VU	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Orifices	PB, TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-VU-d See Note A-VU-e	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Pipe and Fittings	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-VU-b See Note A-VU-c	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-VU-d See Note A-VU-e	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Filters - Chilled Water Purge System	PB, FI	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-g	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Filters - Chilled Water Purge System	PB, FI	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Pipe and Fittings, Chilled Water Purge System	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														applicable note.
VU	VU	Pipe and Fittings, Chilled Water Purge System	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-g	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Purge Units (XHX0001A/B/C-GS1) - Chilled Water Purge System	PB, GR	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Purge Units (XHX0001A/B/C-GS1) - Chilled Water Purge System	PB, GR	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Purge Units (XHX0001A/B/C-GS1) - Chilled Water Purge System	PB, GR	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-g	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Purge Units (XHX0001A/B/C-GS1) - Chilled Water Purge System	PB, GR	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Valves (Body Only), Chilled Water Purge System	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-h	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
VU	VU	Valves (Body Only), Chilled Water Purge System	PB	Stainless Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-VU-g	N/A	N.3-04	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Tanks (XTK0174A/B), Chilled Water Expansion	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Corrosive Impacts of Alternate Wetting and Drying; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; Above Ground Tank Inspection	See Note A-VU-b See Note A-VU-c	VII.C2.4-a, VII.C2.4.1	N.3-19	No	No	<p>VII.C2.4-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program for managing aging. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of this program/activity are not fully consistent with the corresponding program (XI.M21) attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.</p> <p>In addition, the Above Ground Tank Inspection will detect and characterize the affects of aging, if any. This one-time inspection, as described in TR00160-020, is focused on the air-water interface inside of certain tanks (and the corrosive impacts of alternate wetting and drying) and is not to be confused with GALL Program XI.M29, "Above Ground Carbon Steel Tanks", which is focused on inaccessible areas of the external surface of certain tanks.</p>
VU	VU	Tanks (XTK0174A/B), Chilled Water Expansion	PB	Carbon Steel	Yard	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-I See Note A-VU-m	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									VU-f					components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-VU-d See Note A-VU-e	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of the credited program meet the intent of another GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Valves (Body Only)	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VU-a	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-VU-b See Note A-VU-c	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
VU	VU	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-VU-f	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-VU-d See Note A-VU-e	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-a See Note A-WG-b	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WG-c See Note A-	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									WG-d					management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-a See Note A-WG-b	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL items are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Spiral Baffle	TH	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-e See Note A-WG-f	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Tube Coils	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-e See Note A-	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									WG-f					consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Tube Manifolds	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-e See Note A-WG-f	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WG-c See Note A-WG-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Channel Head	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WG-c See Note A-WG-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Channel Head	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-a See Note A-WG-b	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-e See Note A-WG-f	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Tubesheet	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-e See Note A-WG-f	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	CC	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WG-c See Note A-WG-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WG	CC	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-a See Note A-WG-b	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Pipe and Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-WG-g	V.C.1-b, V.C.1.2	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects were determined to require management during the period of extended operation as detailed in the applicable note.
WG	WG	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Waste Gas System Inspection	See Note A-WG-e See Note A-WG-f	VII.C2.2-a, VII.C2.2.1	N.3-15	No	No	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Waste Gas System Inspection. Certain aging effects not addressed by the GALL item are also managed by the credited program. Component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WG	WG	Tube & Tube Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WG-c See Note A-WG-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WG	WG	Tube & Tube Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-a See Note A-WG-b	VII.C2.1-a, VII.C2.1.1	T.3-15	No	Partial	VII.C2.1-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WG-c See Note A-WG-d	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WG	WG	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WG-a See Note A-WG-b	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WG	WG	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-WG-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
WG	WG	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Waste Gas System Inspection	See Note A-WG-e See Note A-	VII.C2.2-a, VII.C2.2.1	N.3-15	No	No	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC)			WG-f					consistent with the identified GALL item in material, environment and aging effects. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Waste Gas System Inspection. Certain aging effects not addressed by the GALL item are also managed by the credited program. Component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Condensers (XEV0029-CN1, XEV0029-CN2), WasteEvaporator - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-e See Note A-WL-n See Note A-WL-m	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WL	WL	Condensers (XEV0029-CN1, XEV0029-CN2), WasteEvaporator - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-c See Note A-WL-d See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
WL	WL	Condensers (XEV0029-CN1, XEV0029-CN2), WasteEvaporator - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Condensers (XEV0029-CN1, XEV0029-CN2), WasteEvaporator - Tubesheet	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XEV0029-HE2), Waste Evaporator - Shell	PB	Carbon Steel/Stainless Steel Combination	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-e See Note A-WL-n See Note A-WL-m	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program.
WL	WL	Heat Exchanger (XEV0029-HE2), Waste Evaporator - Shell	PB	Carbon Steel/Stainless Steel Combination	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-c See Note A-WL-d See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XEV0029-HE2), Waste Evaporator - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XEV0029-HE2), Waste Evaporator - Tubesheet	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0012), RC Drain Tank - Shell	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-h See Note A-WL-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WL	WL	Heat Exchanger (XHE0012), RC Drain Tank - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WL-c See Note A-WL-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0012), RC Drain Tank - Tubes	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Liquid Waste System Inspection	See Note A-WL-a See Note A-WL-b	V.D1.1-a, V.D1.1.5	N.3-21	No	No	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Additional VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion, which are also managed with the Liquid Waste System Inspection. This component/component type is managed by

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0012), RC Drain Tank - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0012), RC Drain Tank - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Liquid Waste System Inspection	See Note A-WL-a See Note A-WL-b	V.D1.1-a, V.D1.1.5	N.3-21	No	No	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Additional VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion, which are also managed with the Liquid Waste System Inspection. This component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0012), RC Drain Tank - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0022), Waste Evap. Concentrates Sample - Manifolds	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Liquid Waste System Inspection	See Note A-WL-a See Note A-WL-b	V.D1.1-a, V.D1.1.5	N.3-21	No	No	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Additional VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion, which are also managed with the Liquid Waste System Inspection. This component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0022), Waste Evap. Concentrates Sample - Manifolds	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0022), Waste Evap. Concentrates Sample - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-e See Note A-WL-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WL	WL	Heat Exchanger (XHE0022), Waste Evap. Concentrates Sample - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-WL-c See Note A-WL-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0022), Waste Evap. Concentrates Sample - Tubes	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Liquid Waste System Inspection	See Note A-WL-a See Note A-WL-b	V.D1.1-a, V.D1.1.5	N.3-21	No	No	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Additional VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion, which are also managed with the Liquid Waste System Inspection. This component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0022), Waste Evap. Concentrates Sample - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-WL-f See Note A-WL-g	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Pipe and Fittings	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-WL-j	VII.H2.3-a, VII.H2.3.1	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
WL	WL	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-h See Note A-WL-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WL	WL	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-e See Note A-WL-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program.
WL	WL	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Liquid Waste System Inspection	See Note A-WL-a See Note A-WL-b	V.D1.1-a, V.D1.1.5	N.3-21	No	No	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Additional VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion, which are also managed with the Liquid Waste System Inspection. This component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
WL	WL	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-WL-m	V.C.1-b, V.C.1.2	N.3-09	Yes, plant specific	No	V.C.1-b addresses containment isolation components. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Valves (Body Only)	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-WL-k	VII.F2.4-a, VII.F2.4.1	N.3-01	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
WL	WL	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-h See Note A-WL-l	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WL	WL	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-WL-e See Note A-WL-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
WL	WL	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Liquid Waste System Inspection	See Note A-WL-a See Note A-WL-b	V.D1.1-a, V.D1.1.5	N.3-21	No	No	V.D1.1-a addresses Emergency Core Cooling System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. Additional VCSNS AMR aging effects requiring management are loss of material due to crevice and pitting corrosion, which are also managed with the Liquid Waste System Inspection. This component/component type is managed by an activity that is not evaluated in GALL Chapter XI, and is therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
WL	WL	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
WL	WL	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-WL-m	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects were determined to require management during the period of extended operation as detailed in the applicable note.
ND	ND	Pipe and Fittings	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-ND-c. Also see TR00160-010, Attachment # VII	VII.F2.4-a, VII.F2.4.1	N.3-01	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
WL	WL	Valves (Body Only)	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-WL-j	VII.H2.3-a, VII.H2.3.1	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CO	CO	Tank (XTK0008), Condensate Storage	PB	Carbon Steel	Ventilation *	Galvanic Corrosion, General Corrosion	Loss of Material	Above Ground Tank Inspection	See Note A-CO-g, See Note A-CO-h	VIII.E.5-a, VIII.E.5.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.E.5-a addresses the Condensate Storage Tank internal surfaces. The material and aging effects requiring management for this component/component type are consistent with the identified GALL item which has the same material and aging effects. Relative to the environment, the identified GALL item references treated water, while the component/component type AMR results consider the moist air space above the treated water line in the CST. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection, which includes measures to verify the effectiveness of water chemistry control. The Above Ground Tank Inspection is a one-time inspection activity that will detect and characterize the loss of material due to general and galvanic corrosion as a result of the corrosive impacts of alternate wetting and drying, primarily at the air-water interface, and not to verify the effectiveness of chemistry control. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in detecting and characterizing the affects of aging during the period of extended operation.
DG	DG	Tanks (XTK0020A/B),	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-	VII.H2.3-a,	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Fuel Oil Day							DG-a See Note A-DG-n	VII.H2.3.1				Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Tanks (XTK0053A/B), Fuel Oil Storage	PB	Carbon Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-DG-a See Note A-DG-n	VII.H2.3-a, VII.H2.3.1	T.3-05	Yes, plant specific	No	VII.H2.3-a addresses Emergency Diesel Generator System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Raw Water	Erosion, Galvanic Corrosion, General Corrosion, Crevice Corrosion, Pitting Corrosion, Microbiologically Induced Corrosion (MIC); Particulates, Biological Materials	Loss of Material; Heat Exchanger Fouling	Service Water System Reliability and In-Service Testing Program	See Note A-DG-zq See Note A-DG-zr	VII.C1.3-a, VII.C1.3.3	T.3-17	No	Partial	VII.C1.3-a addresses Open-Cycle Cooling Water System components. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Selective leaching is not an applicable aging effect for this component and so the GALL-referenced Selective Leaching AMP is not applicable. However, the attributes of this activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CC	CC	Valves (Body Only)	PB	Carbon Steel	Ventilation *	General Corrosion	Loss of Material	Above Ground Tank Inspection	See Note A-CC-o See Note A-CC-p	VII.F1.4-a, VII.F1.4.1	N.3-19	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that pitting and crevice corrosion were not applicable aging effects for this component, as discussed in the referenced notes. The Above Ground Tank Inspection will detect and characterize the affects of aging, if any in certain tanks and interconnected piping and valves. This one-time inspection, as described in TR00160-020, is focused on the air-water interface inside of certain tanks and is not to be confused with GALL Program XI.M29, "Above

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Ground Carbon Steel Tanks", which is focused on inaccessible areas of the external surface of certain tanks. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively detecting and characterizing the effects of aging during the period of extended operation.
CC	CC	Tank (XTK0003), CC Surge Tank	PB	Carbon Steel	Ventilation *	Galvanic Corrosion, General Corrosion	Loss of Material	Above Ground Tank Inspection	See Note A-CC-o See Note A-CC-p	VII.F1.4-a, VII.F1.4.1	N.3-19	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that pitting and crevice corrosion were not applicable aging effects for this component, as discussed in the referenced notes. The Above Ground Tank Inspection will detect and characterize the affects of aging, if any due to galvanic or general corrosion in the air space (wetted ambient) of the Tank. This one-time inspection, as described in TR00160-020, is focused on the air-water interface inside of certain tanks and is not to be confused with GALL Program XI.M29, "Above Ground Carbon Steel Tanks", which is focused on inaccessible areas of the external surface of certain tanks. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively detecting and characterizing the effects of aging during the period of extended operation.
CC	CC	Pipe and Fittings	PB	Carbon Steel	Ventilation *	General Corrosion	Loss of Material	Above Ground Tank Inspection	See Note A-CC-o See Note A-CC-p	VII.F1.4-a, VII.F1.4.1	N.3-19	Yes, plant specific	No	VII.F1.4-a addresses Control Room Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that pitting and crevice corrosion were not applicable aging effects for this component, as discussed in the referenced notes. The Above Ground Tank Inspection will detect and characterize the affects of aging, if any in both the tank itself and connected piping and fittings. This one-time inspection, as described in TR00160-020, is focused on the air-water interface inside of certain tanks and is not to be confused with GALL Program XI.M29, "Above Ground Carbon Steel Tanks", which is focused on

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														inaccessible areas of the external surface of certain tanks. Also, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively detecting and characterizing the effects of aging during the period of extended operation.
VU	VU	Tanks (XTK0174A/B), Chilled Water Expansion	PB	Carbon Steel	Ventilation *	General Corrosion	Loss of Material	Above Ground Tank Inspection	See Note A-VU-y See Note A-VU-z	VII.H2.2-a	N.3-19	Yes, plant specific	No	GALL Item No. VII.H2.2-a addresses the diesel engine starting air subsystem. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect/mechanism. VCSNS determined that pitting and crevice corrosion were not applicable aging effects for this component, as discussed in the referenced notes. The Above Ground Tank Inspection will detect and characterize the affects of aging, if any. This one-time inspection, as described in TR00160-020, is focused on the air-water interface inside of certain tanks and is not to be confused with GALL Program XI.M29, "Above Ground Carbon Steel Tanks", which is focused on inaccessible areas of the external surface of certain tanks. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively detecting and characterizing the effects of aging during the period of extended operation.
BR	BR	Condensers (XEV0008-CN1, XEV0008-CN2), Recycle Evaporator - Channel Head	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
BR	BR	Heat Exchanger (XEV0008-HE2), Recycle Evaporator - Shell	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-BR-c, See Note A-BR-d	VII.C2.2-a, VII.C2.2.1	T.3-15	No	Partial	VII.C2.2-a addresses Closed-Cycle Cooling Water System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Relative to the aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program, while the component/component type AMR results credit the Chemistry Program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
SS	SS	Pumps (Casing Only) (XPP0162A/B), SS System Flushing Water	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-SS-p	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SS	SS	Pumps (Casing Only) (XPP0162A/B), SS System Flushing Water	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-SS-f See Note A-SS-g	V.D1.5-a, V.D1.5.2	N.3-17	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. VCSNS determined that the Chemistry Program will adequately manage the applicable aging effects instead of the GALL Closed-Cycle Cooling Water System AMP. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RH	RH	Heat Exchangers (XHE0005A/B), RHR - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RH-e See Note A-RH-h	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RH	RH	Heat Exchangers (XPP0031A/B-HE1), RH Pump Seal - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RH-e See Note A-RH-h	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BR	BR	Heat Exchanger (XHE0021), Recycle Evap. Concentrates Sample - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-BR-a, See Note A-BR-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited activity. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Condensers (XEV0029-CN1, XEV0029-CN2), WasteEvaporator - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WL-e See Note A-WL-n See Note A-WL-m	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XEV0029-HE2), Waste Evaporator - Shell	PB	Carbon Steel/Stainless Steel Combination	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WL-e See Note A-WL-n See Note A-WL-m	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0012), RC Drain Tank - Shell	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WL-h See Note A-WL-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Heat Exchanger (XHE0022), Waste Evap. Concentrates Sample - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WL-e See Note A-WL-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WL-h See Note A-WL-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-WL-e See Note A-WL-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, an additional VCSNS AMR aging effect requiring management is loss of material due to microbiologically induced corrosion (MIC), which is also managed with the referenced activity. The identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
WL	WL	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WL-h See Note A-WL-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WL	WL	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WL-e See Note A-WL-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SS	SS	Heat Exchangers (XCE0001, 2, 4, 5), Primary Side Sample Cooler - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SS-e See Note A-SS-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Heat Exchangers (XCE0003A/B/C), SG Blowdown Sample Cooler - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SS-e See Note A-SS-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														meeting the intent of the pertinent GALL program.
SS	SS	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SS-h See Note A-SS-o	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SS	SS	Pumps (Casing Only) (XPP0162A/B), SS System Flushing Water	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SS-e See Note A-SS-n	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SF-d, See Note A-SF-e	V.E.1-b, V.E.1.1	T.3-05	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. However, the identified GALL recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SF	SF	Heat Exchangers (XHE0007A/B), SFC - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SF-d, See Note A-SF-e	V.E.1-b, V.E.1.1	T.3-05	Yes, plant specific	No	V.E.1-b addresses carbon steel external surfaces. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects. However, the identified GALL recommends plant specific evaluation of the credited program. Refer to TR00160-020 for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SI	SI	Tanks (XTK0028A/B/C), SI Accumulator	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SI-e See Note A-SI-f	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SI	SI	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SI-e See Note A-SI-f	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SP	SP	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SP-e See Note A-SP-f	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SP	SP	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SP-e See Note A-SP-f	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Tube Coils	PB	Stainless Steel	Air-Gas	Stress Corrosion Cracking (SCC)	Cracking	Waste Gas System Inspection	See Note A-WG-j	VII.F2.4-a, VII.F2.4.1	N.3-15	Yes, plant specific	No	VII.F2.4-a and VII.F2.4.1 address ventilation system filters, and housing and supports, respectively. An aging effect not addressed by the GALL items are managed by the credited program. Component/component

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														type is managed by a program that is not evaluated in GALL Chapter XI and is, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Tube Manifolds	PB	Stainless Steel	Air-Gas	Stress Corrosion Cracking (SCC)	Cracking	Waste Gas System Inspection	See Note A-WG-j	VII.F2.4-a, VII.F2.4.1	N.3-15	Yes, plant specific	No	VII.F2.4-a and VII.F2.4.1 address ventilation system filters, and housing and supports, respectively. An aging effect not addressed by the GALL items are also managed by the credited program. Component/component type is managed by a program that is not evaluated in GALL Chapter XI and is, therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
WG	WG	Pipe and Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-WG-h	VII.F2.4-a, VII.F2.4.1	T.3-05	Yes, plant specific	No	VII.F2.4-a and VII.F2.4.1 address ventilation system filters, and housing and supports, respectively. The component/component type AMR results are consistent with the identified GALL items in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
WG	WG	Valves (Body Only)	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-WG-h	VII.F2.4-a, VII.F2.4.1	T.3-05	Yes, plant specific	No	VII.F2.4-a and VII.F2.4.1 address ventilation system filters, and housing and supports, respectively. The component/component type AMR results are consistent with the identified GALL items in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Agitator and Mixer (XAJ0015), Boric Acid Blender	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effects/mechanisms requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Agitator and Mixer (XAJ0015), Boric Acid Blender	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Demineralizers (XDM0005A/B), Mixed Bed	PB, FI	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effects/mechanisms requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Demineralizers (XDM0005A/B), Mixed Bed	PB, FI	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Demineralizer (XDM0008), Cation Bed	PB, FI	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effects/mechanisms requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Demineralizer (XDM0008), Cation Bed	PB, FI	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Filters	PB, FI	Carbon Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-h	VII.G.7-b	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Filters	PB, FI	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Filters	PB, FI	Cast Iron	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-q	N/A	N.3-05	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Filters	PB, FI	Cast Iron	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-o, See Note A-CS-p	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging effects as carbon steel, if both materials were exposed to a sheltered environment. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Filters	PB, FI	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	T.2-15, N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Filters	PB, FI	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Flexible Coupling	PB	Copper	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-r	N/A	N.3-05	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Flexible Coupling	PB	Copper	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-s, See Note A-CS-t	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. VCSNS uses the same AMP (BAC Surveillances) for the external surfaces of carbon steel and copper. Therefore, the material, environment, aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Gearboxes (XPP0043A/B/C-GB), Charging/SI Pumps	PB	Carbon Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-h	VII.G.7-b	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Gearboxes (XPP0043A/B/C-GB), Charging/SI Pumps	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Heat Exchanger (XHE0003), Regenerative - Channel Head	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.7-c, VII.E1.7.1	T.3-09	Yes, plant specific	No	VII.E1.7-c addresses Regenerative Heat Exchanger components. The component/component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
CS	CS	Heat Exchanger (XHE0003), Regenerative - Channel Head	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchanger (XHE0003), Regenerative - Shell	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.7-c, VII.E1.7.4	T.3-09	Yes, plant specific	No	VII.E1.7-c addresses Regenerative Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0003), Regenerative - Shell	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchanger (XHE0003), Regenerative - Tubes	PB, HT	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.7-c, VII.E1.7.3	T.3-09	Yes, plant specific	No	VII.E1.7-c addresses Regenerative Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0003), Regenerative - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.7-c, VII.E1.7.2	T.3-09	Yes, plant specific	No	VII.E1.7-c addresses Regenerative Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Channel Head	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.1	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Channel Head	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Shell	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-k, See Note A-CS-l	VII.E1.8-d, VII.E1.8.5	T.3-14	No	Yes	VII.E1.8-d addresses Letdown Heat Exchanger components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CS-m, See Note A-CS-n	VII.E1.8-c, VII.E1.8.4	T.3-15	No	Partial	VII.E1.8-c addresses Letdown Heat Exchanger components. VCSNS determined that the Chemistry Program will manage the applicable aging effects, where the GALL item references "Closed Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. Additionally, the attributes of this program/activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Tubes	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.3	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.3	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														during the period of extended operation.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Channel Head	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.1	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Channel Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	VII.E1.8-d, VII.E1.8.5	T.3-14	No	Yes	VII.E1.8-d addresses Letdown Heat Exchanger components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CS-m, See Note A-CS-n	VII.E1.8-c, VII.E1.8.4	T.3-15	No	Partial	VII.E1.8-c addresses Letdown Heat Exchanger components. VCSNS determined that the Chemistry Program will manage the applicable aging effects, where the GALL item references "Closed Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. Additionally, the attributes of this program/activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Tubes	PB, HT	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.3	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Tubes	PB, HT	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.3	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0014), Letdown - Channel Head	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.1	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0014), Letdown - Channel Head	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchanger (XHE0014), Letdown - Shell	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	VII.E1.8-d, VII.E1.8.5	T.3-14	No	Yes	VII.E1.8-d addresses Letdown Heat Exchanger components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Heat Exchanger (XHE0014), Letdown - Shell	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-CS-m, See Note A-CS-n	VII.E1.8-c, VII.E1.8.4	T.3-15	No	Partial	VII.E1.8-c addresses Letdown Heat Exchanger components. VCSNS determined that the Chemistry Program will manage the applicable aging effects, where the GALL item references "Closed Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program/activity. Additionally, the attributes of this program/activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0014), Letdown - Tubes	PB, HT	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.3	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0014), Letdown - Tubes	PB, HT	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.3	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0014), Letdown - Tubesheet(s)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0014), Letdown - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE1), Charging/SI Pump Lube Oil Cooler - Shell	PB	Stainless Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-e	VIII.G.5-d	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE1), Charging/SI Pump Lube Oil Cooler - Shell	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE1),	PB	Copper-Nickel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-u	VII.G.7-b	N.3-05	Yes, detection of aging effects is to be	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Charging/SI Pump Lube Oil Cooler - Tubes										evaluated		component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE1), Charging/SI Pump Lube Oil Cooler - Tubes	PB	Copper-Nickel	Treated Water	Crevice Corrosion, Erosion-Corrosion, Galvanic Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program, Heat Exchanger Inspections	See Note A-CS-v, See Note A-CS-w	VII.E1.8-b, VII.E1.8.3	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in environment. VCSNS determined that cracking due to stress corrosion cracking and cyclic loading are not aging effects requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program/activity. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE1), Charging/SI Pump Lube Oil Cooler - Tubesheet(s)	PB	Stainless Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-e	VIII.G.5-d	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE1), Charging/SI Pump Lube Oil Cooler - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE2), Gearbox Lube Oil Cooler - Shell	PB	Stainless Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-e	VIII.G.5-d	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE2), Gearbox Lube Oil Cooler - Shell	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE2), Gearbox Lube Oil Cooler - Tubes	PB	Stainless Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-e	VIII.G.5-d	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE2), Gearbox Lube Oil Cooler - Tubes	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE2), Gearbox Lube Oil Cooler - Tubesheet(s)	PB	Stainless Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-e	VIII.G.5-d	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Heat Exchangers (XPP0043A/B/C-HE2), Gearbox Lube Oil Cooler - Tubesheet(s)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	VII.E1.8-b, VII.E1.8.2	T.3-09	Yes, plant specific	No	VII.E1.8-b addresses Letdown Heat Exchanger components. The component /component type AMR results are consistent with the identified GALL item in material and environment. VCSNS determined that cracking due to cyclic loading is not an aging effect requiring management for this component/component type. However, the identified GALL item recommends plant specific evaluation of the credited program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
CS	CS	Instrumentation (Pressure Retaining Only) - (IFT0113)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Instrumentation (Pressure Retaining Only) - (IFT0113)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Instrumentation (Pressure Retaining Only) - (ILG17556A/B/C)	PB	Glass	Lube Oil	None Identified	None Identified	None Required	TR00160-010, Attachment V	N/A	N.3-23	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Instrumentation (Pressure Retaining Only) - (ILG17556A/B/C)	PB	Glass	Sheltered	None Identified	None Identified	None Required	TR00160-010, Attachment X	N/A	N.3-23	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Accumulators (XPP0043A/B/C-OR1), Charging/SI Pump Lube Oil Reservoir	PB	Cast Iron	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-q	N/A	N.3-05	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Accumulators	PB	Cast Iron	Sheltered	Boric Acid Corrosion	Loss of Material	Boric Acid	See Note A-	VII.I.1-a,	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		(XPP0043A/B/C-OR1), Charging/SI Pump Lube Oil Reservoir				(Aggressive Chemical Attack)		Corrosion Surveillances	CS-o, See Note A-CS-p	VII.I.1.1				carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging effects as carbon steel, if both materials were exposed to a sheltered environment. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Orifices (CS)	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.2-c, V.D1.2.3	T.2-08, T.2-15, N.3-06A	Yes, plant specific	No	V.D1.2-c addresses Emergency Core Cooling System components. The component /component type AMR results are consistent with the identified GALL item in material and environment, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. VCSNS considers the loss of material due to erosion of mini-flow orifices to be a design problem rather than a valid aging-related effect/mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CV	Orifices (CV)	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	T.2-15, N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the pertinent GALL program.
CS	CS	Orifices	PB, TH	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pipe and Fittings	PB	Carbon Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-h	VII.G.7-b	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	V.E.1-a, V.E.1.1	T.2-17, T.3-14	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	T.2-15, N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CV	Pipe and Fittings (CV)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pipe and Fittings (CS)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	V.D1.5-a, V.D1.5.2	T.2-15, N.3-17	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. VCSNS determined that the Chemistry Program will manage the applicable aging effects, where the GALL item references "Closed Cycle Cooling Water System." Except as noted, the AMR results for this component/component type are consistent with the identified GALL item, which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CS	Pumps (Bearing	PB	Carbon Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-	VII.G.7-b	N.3-05	Yes, detection of aqinq	No	VII.G.7-b addresses Reactor Coolant Pump

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Housings) (XPP0043A/B/C), Charging/SI							CS-h			effects is to be evaluated		Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pumps (Bearing Housings) (XPP0043A/B/C), Charging/SI	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	V.E.1-a, V.E.1.1	T.2-17, T.3-14	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Pumps (Casing Only) (XPP0013A,B), Boric Acid Transfer	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.5-a, VII.E1.5.1	T.2-15, T.3-04	Yes, plant specific	No	VII.E1.5-a addresses Chemical and Volume Control System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CS	Pumps (Casing Only) (XPP0013A,B), Boric Acid Transfer	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pumps (Casing Only) (XPP0043A/B/C), Charging/SI	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	VII.E1.5-a, VII.E1.5.1	T.2-15, T.3-04	Yes, plant specific	No	VII.E1.5-a addresses Chemical and Volume Control System components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aqinq effects

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CS	Pumps (Casing Only) (XPP0043A/B/C), Charging/SI	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pumps (Casing Only) (XPP0043A/B/C-PP1, 2, 3), Charging/SI Auxiliaries	PB	Carbon Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-h	VII.G.7-b	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Pumps (Casing Only) (XPP0043A/B/C-PP1, 2, 3), Charging/SI Auxiliaries	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	V.E.1-a, V.E.1.1	T.2-17, T.3-14	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Tanks (XTK0012A/B), Boric Acid	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Tanks (XTK0012A/B), Boric Acid	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tanks (XTK0012A/B), Boric Acid	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-CS-f	VII.F3.4-a	N.3-01	Yes, plant specific	No	VII.F3.4-a addresses Primary Containment Heating & Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tank (XTK0046), Volume Control (VCT)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Tank (XTK0046), Volume Control (VCT)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion;	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See	V.D1.1-a, V.D1.1.5	T.2-15, N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Stress Corrosion Cracking (SCC)			Note A-CS-b					environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Tube & Tube Fittings	PB	Stainless Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-e	VIII.G.5-d	N.3-05	Yes, plant specific	No	VIII.G.5-d addresses Auxiliary Feedwater System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tube & Tube Fittings (ILT0112, ILT0115)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Tube & Tube Fittings (ILT0112, ILT0115)	PB	Stainless Steel	Treated Water	None Identified	None Identified	None Required	See Note A-CS-c, See Note A-CS-d	V.C.1-b	N.2-06	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Valves (Body Only)	PB	Carbon Steel	Lube Oil	None Identified	None Identified	None Required	See Note A-CS-h	VII.G.7-b	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-CS-ii, See Note A-CS-j	V.E.1-a, V.E.1.1	T.2-17, T.3-14	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CV	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-a, See Note A-CS-b	V.D1.1-a, V.D1.1.5	T.2-15, N.3-06	No	Yes	V.D1.1-a addresses Emergency Core Cooling System components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-CS-g	V.C.1-b	N.2-01, N.3-01	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
CS	CS	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-CS-c, See Note A-CS-d	V.D1.5-a, V.D1.5.2	T.2-15, N.3-17	No	Partial	V.D1.5-a addresses Emergency Core Cooling System components. The material, environment and aging effect requiring management for this component/component type are consistent with the identified GALL item, which has the same material, environment and aging effect. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
CS	CS	Filters	PB, FI	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-ii, See Note A-CS-j	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
CS	CS	Filters	PB, FI	Cast Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-o, See Note A-CS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effects as carbon steel, if both materials were exposed to a sheltered environment. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Gearboxes (XPP0043A/B/C-GB), Charging/SI Pumps	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-ii, See Note A-CS-j	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0009), Excess Letdown - Shell	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-k, See Note A-CS-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger (XHE0011), Seal Water - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-ii, See Note A-CS-j	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Accumulators (XPP0043A/B/C-OR1), Charging/SI Pump Lube Oil Reservoir	PB	Cast Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-o, See Note A-CS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging effects as carbon steel, if both materials were exposed to a sheltered environment. The component /component type AMR results are consistent with the identified GALL item in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-ii, See Note A-CS-j	V.E.1-b, V.E.1.1	T.2-10, T.3-05	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Pumps (Bearing Housings) (XPP0043A/B/C), Charging/SI	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-ii, See Note A-CS-j	V.E.1-b, V.E.1.1	T.2-10, T.3-05	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Pumps (Casing Only) (XPP0043A/B/C-PP1, 2, 3), Charging/SI Auxiliaries	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-ii, See Note A-CS-j	V.E.1-b, V.E.1.1	T.2-10, T.3-05	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
CS	CS	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CS-ii, See Note A-CS-j	V.E.1-b, V.E.1.1	T.2-10, T.3-05	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component /component type AMR results are consistent with the identified GALL item in material, environment and aging mechanism. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CS	CS	Heat Exchanger	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for	See Note A-	VII.I.1-b,	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		(XHE0014), Letdown - Shell						Mechanical Components	CS-ii, See Note A-CS-j	VII.I.1.1				carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Channel Head	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-a See Note A-CC-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Heat Exchangers (XHE0002A/B), Component Cooling - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-a See Note A-CC-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
CC	CC	Motors (MPP0001A/B/C), CC Pump Casing/Int. Bearing Cooler only - Water Boxes	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-a See Note A-CC-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-m See Note A-CC-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation.
CC	CC	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-CC-a See Note A-CC-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Another aging effect managed by the referenced program is microbiologically induced corrosion (MIC). However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Pumps (Casing Only) (XPP0001A/B/C), CC Pumps	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-a See Note A-CC-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Tank (XTK0003), CC Surge Tank	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-a See Note A-CC-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-m See Note A-CC-n	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
CC	CC	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-CC-a See Note A-	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									CC-b					consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WG	CC	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-WG-c See Note A-WG-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. Certain aging effects not addressed by the GALL items are also managed by the credited activity. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Pumps (Casing Only) (XPP0048A/B/C), Chilled Water	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Shells	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														meeting the intent of the pertinent GALL program.
VU	VU	Condensers (XHX0001A/B/C-CN1), Chilled Water Unit - Water boxes	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Shells	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Evaporators (XHX0001A/B/C-EV1), Chilled Water Unit - Water boxes	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Compressors (XHX0001A/B/C-GC1),	PB	Cast Iron	Sheltered	Boric Acid Corrosion (Aqgressive Chemical	Loss of Material	Boric Acid Corrosion	See Note A-VU-j	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. Cast iron is similar

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Chilled Water Unit - Housing Only				Attack)		Surveillances						to carbon steel in composition and would be expected to experience the same aging effects as carbon steel, if both materials were exposed to a sheltered environment. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Flow Control Chambers (XHX0001A/B/C-PS1), Chilled Water Unit	PB, TH	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Pumps (XPP0186A/B/C), Chilled Water Cleanup System Fluid Ejector	PB, GR	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Eductor, Chilled Water Lubrication System	PB, GR	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aqinq effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Pumps (Casing Only) (XHX0001A/B/C-PP1, 2, 3, 4) - Chilled Water Unit Lubrication System	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Pumps (Casing Only) (XHX0001A/B/C-PP1, 2, 3, 4) - Chilled Water Unit Lubrication System	PB	Cast Iron	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-j	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. Cast iron is similar to carbon steel in composition and would be expected to experience the same aging effects as carbon steel, if both materials were exposed to a sheltered environment. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aqinq effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Purge Units (XHX0001A/B/C-GS1) - Chilled Water Purge System	PB, GR	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
VU	VU	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-VU-a	VII.I.1-a, VII.I.1.1	T.3-14	No	Yes	VII.I.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EF	EF	Filter (TPP0008-FL1), EFWP Turbine Lube Oil Filter	PB, FI	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Heat Exchanger (TPP0008-HE1), EFWP Turbine Lube Oil Cooler - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Orifices (Breakdown)	PB, TH	Carbon Steel/Alloy Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Orifices (Flow)	PB, TH	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Pipe and Fittings, EFWP Turbine Lube Oil	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Pump (Casing Only) (TPP0008-PP1) - EFWP Lube Oil Rotary Pump	PB	Cast Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-s See Note A-EF-t	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	This material/environment combination is not addressed in GALL. However, because of similarities in material properties, the aging effects evaluated for cast iron are the same as those for carbon steel [TR00160-010, Attachment X]. VIII.H.1-b addresses carbon steel components (external surfaces). The component/component type AMR results are consistent with the identified GALL items in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Pump (Casing Only) (XPP0008), EFWP Turbine Driven	PB	Alloy Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Pumps (Casing Only) (XPP0021A/B), MDEFWP	PB	Alloy Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Accumulator (TPP0008-OR1), EFWP Turbine Lube Oil Reservoir	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Valves (Body Only) - EFWP Turbine Lube Oil	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-e See Note A-EF-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EF	EF	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EF-n See Note A-EF-o	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL items in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
EX	EX	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-EX-a, See Note A-EX-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited activity. Additionally, the attributes of this activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program.
EX	EX	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-EX-c, See Note A-EX-d	VIII.C.1-b, VIII.C.1.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.C.1-b addresses Extraction Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EX	EX	Valves (Body Only)	PB	Alloy Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EX-a, See Note A-EX-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
EX	EX	Valves (Body Only)	PB	Alloy Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-EX-c, See Note A-EX-d	VIII.C.1-a, VIII.C.1.1	T.4-06	No	Yes	VIII.C.1-a addresses Extraction Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
EX	EX	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-EX-a, See Note A-EX-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aqinq effect.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
EX	EX	Valves (Body Only)	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-EX-c, See Note A-EX-d	VIII.C.1-a, VIII.C.1.1	T.4-06	No	Yes	VIII.C.1-a addresses Extraction Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MB	MB	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MB-a, See Note A-MB-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MB	MB	Pipe and Fittings	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-MB-c, See Note A-MB-d	VIII.B1.1-c, VIII.B1.1.4	T.4-06	No	Yes	VIII.B1.1-c addresses Main Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MB	MB	Tube & Tube Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MB-a, See Note A-MB-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MB	MB	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MB-a, See Note A-MB-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MB	MB	Valves (Body Only)	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-MB-c, See Note A-MB-d	VIII.B1.2-b, VIII.B1.2.1	T.4-06	No	Yes	VIII.B1.2-b addresses Main Steam System valve bodies. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	EF	Turbine (Casing/Shell Only) (TPP0008), EFWP	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MS-a, See Note A-MS-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	MS	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MS-e, See Note A-MS-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	MS	Pipe and Fittings	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-MS-c, See Note A-MS-d	VIII.B1.1-c, VIII.B1.1.3	T.4-06	No	Yes	VIII.B1.1-c addresses Main Steam System piping and fittings. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MS-e, See Note A-MS-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	MS	Valves (Body Only)	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-MS-c, See Note A-MS-d	VIII.B1.2-b, VIII.B1.2.1	T.4-06	No	Yes	VIII.B1.2-b addresses Main Steam System valve bodies. The material, environment, aging effects requiring management, and the credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MS-a, See Note A-MS-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management, and the credited activity for this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														component/component type are consistent with the identified GALL item which has the same material, environment, aging effect, and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AC	AC	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AC-a See Note A-AC-b	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this credited activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AC	AC	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AC-c See Note A-AC-d	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AC	AC	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AC-a See Note A-AC-b	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this credited activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AC	AC	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AC-c See Note A-AC-d	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this credited activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AS	AS	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AS-a See Note A-AS-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
AS	AS	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-AS-a See Note A-AS-b	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BD	BD	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-BD-a, See Note A-BD-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
BD	BD	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-BD-c, See Note A-BD-d	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
BD	BD	Pipe and Fittings	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-BD-e, See Note A-BD-f	VIII.F.1-a, VIII.F.1.1	T.4-06	No	Yes	VIII.F.1-a addresses Steam Generator Blowdown System piping and fittings. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
BD	BD	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-BD-a, See Note A-BD-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the period of extended operation.
BD	BD	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-BD-c, See Note A-BD-d	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
BD	BD	Valves (Body Only)	PB	Carbon Steel	Treated Water	Erosion-Corrosion	Loss of Material	Flow Accelerated Corrosion Monitoring Program	See Note A-BD-e, See Note A-BD-f	VIII.F.2-a, VIII.F.2.1	T.4-06	No	Yes	VIII.F.2-a addresses Steam Generator Blowdown System valve bodies. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FW	FW	Flow Venturi (IFE0476, IFE0486, IFE0496), SG Feedwater Flow	PB, TH	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FW-a See Note A-FW-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FW	FW	Flow Venturi (IFE0476, IFE0486, IFE0496), SG Feedwater Flow	PB, TH	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-FW-c See Note A-FW-d	VIII.D1.1-c, VIII.D1.1.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.D1.1-c addresses Feedwater System piping and fittings. VCSNS determined that the Chemistry Program will manage loss of material where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FW	FW	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FW-e See Note A-FW-f	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FW	FW	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-FW-a See Note A-FW-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FW	FW	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-FW-c See Note A-FW-d	VIII.D1.1-c, VIII.D1.1.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.D1.1-c addresses Feedwater System piping and fittings. VCSNS determined that the Chemistry Program will manage loss of material where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
FW	FW	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FW-a See Note A-FW-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
FW	FW	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-FW-c See Note A-FW-d	VIII.D1.2-b, VIII.D1.2.1	T.4-02	Yes, detection of aging effects is to be evaluated	Partial	VIII.D1.2-b addresses Feedwater System valve bodies. VCSNS determined that the Chemistry Program will manage loss of material where the GALL item references the Chemistry Program and a One-Time Inspection. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, environment, and aging effects. Certain aging effects not addressed by the GALL item are also managed by the credited program. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Chemistry Program with a One-Time Inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
HR	HR	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-HR-a See Note A-HR-b	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
HR	HR	Recombiners (XHR0004A/B) - Electric, H2	HT	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-HR-c See Note A-HR-d	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
HR	HR	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-HR-a See Note A-HR-b	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SW	SW	Couplings	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SW-e	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SW	SW	Expansion Joints, Mechanical	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical	See Note A-SW-e	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		(XEJ0040A/B, 41A/B) - piping						Components						component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SW	SW	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SW-g	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SW	SW	Pipe and Fittings	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-SW-e	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SW	SW	Pumps (Casing Only) (XPP0045A/B), SW Booster Pumps	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SW-e	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														managing aging during the period of extended operation.
SW	SW	Pumps (Casing Only) (XPP0039AB/C), SW Pumps	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SW-e	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SW	SW	Valves (Body Only)	PB	Carbon Steel	Reactor Building	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SW-g	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SW	SW	Valves (Body Only)	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SW-e	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Eductor, Chilled Water Lubrication System	PB, GR	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-q	VIII.G.5-d	N.3-05	Yes, plant specific	No	GALL Item No. VIII.G.5-d addresses bearing oil coolers. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
VU	VU	Pumps (Casing Only) (XHX0001A/B/C-PP1, 2, 3, 4) - Chilled Water Unit Lubrication System	PB	Carbon Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-p	VII.G.7-a	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
MS	MS	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MS-a, See Note A-MS-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
DG	DG	Filters (XEG0001A/B-FL5)	PB, FI	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Pipe and Fittings	PB	Brass	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-t See Note A-DG-u	N/A	N.3-27	N/A	N/A	The brass and fuel oil combination is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type, are therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
DG	DG	Pipe and Fittings	PB	Carbon Steel	Fuel Oil	Microbiologically	Loss of Material	Chemistrv	See Note A-	VII.H1.4-a,	T.3-07	Yes, detection of aqing	Partial	VII.H1.4-a addresses Diesel Fuel Oil System

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Induced Corrosion (MIC)		Program	DG-o	VII.H1.4.1		effects is to be evaluated		components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Tube & Tube Fittings	PB	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
DG	DG	Valves (Body Only)	PB	Carbon Steel	Fuel Oil	Microbiologically Induced Corrosion (MIC)	Loss of Material	Chemistry Program	See Note A-DG-o	VII.H1.4-a, VII.H1.4.1	T.3-07	Yes, detection of aging effects is to be evaluated	Partial	VII.H1.4-a addresses Diesel Fuel Oil System components. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effects and program (VCSNS Fuel Oil Chemistry included in Chemistry Program), except that VCSNS found that heat exchanger biofouling and loss of material due to general, crevice and pitting corrosion are not aging effects requiring management for

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Database AMR Query

Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the subject component. However, the attributes of the credited program are not fully consistent with the corresponding program attributes as described in GALL Chapter XI because the GALL item recommends augmentation of the Fuel Oil Chemistry Program with a One-Time inspection. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-MS-a, See Note A-MS-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	EF	Valve (Body Only) (XVM11025-EF), EFWP Turbine Governor	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MS-a, See Note A-MS-b	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VU	VU	Pumps (Casing Only) (XHX0001A/B/C-PP1, 2, 3, 4) - Chilled Water Unit Lubrication System	PB	Cast Iron	Oil	None Identified	None Identified	None Required	See Note A-VU-r	VII.G.7-a	N.3-05	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
VU	VU	Filters - Chilled Water Lubrication System	PB, FI	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-VU-q	VIII.G.5-d	N.3-05	Yes, plant specific	No	GALL Item No. VIII.G.5-d addresses bearing oil coolers. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the period of extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Black Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-FS-o, See Note A-FS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an additional aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-r, See Note A-FS-s	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-FS-o, See Note A-FS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect with the identification of an additional aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Pumps (Casing Only) (XPP0134A/B), Electric & Diesel Fire Pump	PB	Cast Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-o, See Note A-FS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. There are material similarities between cast iron and carbon steel. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the period of extended operation.
FS	FS	Strainer (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-o, See Note A-FS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-r, See Note A-FS-s	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-o, See Note A-FS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Valves (Body Only)	PB	Cast Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-o, See Note A-FS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. There are material similarities between cast iron and carbon steel. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-IA-c See Note A-IA-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-IA-e See Note A-IA-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Tanks	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-IA-e See Note A-IA-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components.. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-IA-c See Note A-IA-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-IA-e See Note A-IA-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
IA	IA	Valves (Body Only)	PB	Cast Iron	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-IA-b See Note A-	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. Cast iron is similar to carbon steel in composition and would be

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
									IA-o					expected to experience the same aging effects as carbon steel. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SA	SA	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SA-c See Note A-SA-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SA	SA	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SA-e See Note A-SA-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SA	SA	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SA-c See Note A-SA-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses carbon steel external surfaces. The component/component type AMR results are consistent with the identified GALL items in material, environment, and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
SA	SA	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SA-e See Note A-SA-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
BS	BS	Tube & Tube Fittings	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-BS-e See Note A-BS-g	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. An additional VCSNS aging effect includes galvanic corrosion. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
NG	NG	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-NG-a See Note A-NG-b	V.C.1-a, V.C.1.2	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and aging effect. Relative to environment, the identified GALL item and component/component type consider the same external environment, but reference different internal environments. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
NG	NG	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-NG-d See Note A-NG-e	V.C.1-a, V.C.1.2	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and aging effect. Relative to environment, the identified GALL item and component/component type consider the same external environment, but reference different internal environments. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
NG	NG	Valves (Body Only)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-NG-a See Note A-NG-b	V.C.1-a, V.C.1.1	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and aging effect. Relative to environment, the identified GALL item and component/component type consider the same external environment, but reference different internal environments.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
NG	NG	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-NG-d See Note A-NG-e	V.C.1-a, V.C.1.1	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and aging effect. Relative to environment, the identified GALL item and component/component type consider the same external environment, but reference different internal environments. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
LR	LR	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-LR-a See Note A-LR-b	V.C.1-a, V.C.1.2	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and aging effect. Relative to environment, the identified GALL item and component/component type consider the same external environment, but reference different internal environments. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
LR	LR	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-LR-c See Note A-LR-d	V.C.1-a, V.C.1.2	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and aging effect. Relative to environment, the identified GALL item and component/component type consider the same external environment, but reference different internal environments. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
LR	LR	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-LR-c See Note A-LR-d	V.C.1-a, V.C.1.1	T.2-03	Yes, plant specific	No	V.C.1-a addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effect. Relative to environment, the identified GALL item and component/component type consider the same external environment, but reference different internal environments. However, the identified GALL items recommend plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Expansion Joints, Mechanical (retaining rings)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-a, See Note A-AH-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAA-1A/B, -2A/B-AH) - RBCUs	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-a, See Note A-AH-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAH-12A/B-AH) - Control Room	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAH-13A/B-AH) - Relay Room	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of an aging effect requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Handling Units (XAH-24A/B-AH) - Battery Room/Charging Room	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Air Plenums (FH Building and CR Emergency Filter Plenums)	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAH-12A/B, -13A/B, -24A/B-AH) - Headers	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Ductwork	PB	Galvanized Steel	Sheltered	Galvanic Corrosion, Microbiologically	Loss of Material	Inspections for Mechanical	See Note A-AH-k, See	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. For this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Induced Corrosion (MIC)		Components, Maintenance Rule Structures Program	Note A-AH-I					environment, there are similarities between carbon steel and galvanized steel. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of aging effects requiring management that are not addressed in GALL for this item. . However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Ductwork (fan housings and plenum housings)	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-I	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Heating Coils (XHC-2A/B, -3A/B, -14A/B-AH)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-I	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Pipe - RBCU Cooling Coil Manifold	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-a, See Note A-AH-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														during the period of extended operation.
AH	AH	Valves (Body Only) (XVB-1A, -2A, -3A/B, -4A/B-AH)	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-k, See Note A-AH-l	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effects, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Valves (Body Only) (XVB-1B, -2B-AH)	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-a, See Note A-AH-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XHR0003A/B-HE1), Helical - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WG-c See Note A-WG-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Shell	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WG-c See Note A-WG-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WG	WG	Heat Exchangers (XGC0001A/B-HE1), Waste Gas Compressor - Channel Head	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WG-c See Note A-WG-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WG	WG	Tube & Tube Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WG-c See Note A-WG-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
WG	WG	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-WG-c See Note A-WG-d	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SI	SI	Pipe and Fittings	PB	Stainless Steel	Air-Gas (Moist)	None Identified	None Identified	None Required	See Note A-SI-h	N/A	N.2-01	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SI	SI	Valves (Body Only)	PB	Stainless Steel	Air-Gas (Moist)	None Identified	None Identified	None Required	See Note A-SI-h	N/A	N.2-01	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
BR	BR	Heat Exchanger (XEV0008-HE2), Recycle Evaporator - Shell	PB	Carbon Steel/Stainless Steel Combination	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-BR-a, See Note A-BR-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited activity. Refer to TR00160-020 for a detailed discussion of the attributes of this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														activity in effectively managing aging during the period of extended operation.
BR	BR	Condensers (XEV0008-CN1, XEV0008-CN2), Recycle Evaporator - Channel Head	PB	Carbon Steel/Stainless Steel Combination	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-BR-a, See Note A-BR-b	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited activity. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-01A/B-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Unit (XAH-02-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-04A/B-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														operation.
VL	VL	Air Handling Unit (XAH-06-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Unit (XAH-08-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-09A/B-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-11A/B-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managinq

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-19A/B-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
VL	VL	Air Handling Units (XAH-32-VL, XAH-33-VL)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect with the identification of an aging effect requiring management that is not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
VL	VL	Cooling Coils - Headers	PB	Carbon Steel	Sheltered	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
VL	VL	Ductwork (including fire damper housings)	PB	Galvanized Steel	Sheltered	Galvanic Corrosion, Microbiologically Induced Corrosion (MIC)	Loss of Material	Inspections for Mechanical Components, Maintenance Rule Structures Program	See Note A-VL-a See Note A-VL-f	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Fins	HT	Copper	Ventilation	Boric Acid Corrosion (Aggressive Chemical Attack), Galvanic Corrosion; Particulates	Heat Exchanger Fouling, Loss of Material	Preventive Maintenance Activities - Ventilation Systems Inspections	See Notes A-AH-h, A-AH-ii	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Tubes	PB, HT	Copper	Ventilation	Boric Acid Corrosion (Aggressive Chemical Attack), Galvanic Corrosion; Particulates	Loss of Material; Heat Exchanger Fouling	Preventive Maintenance Activities - Ventilation Systems Inspections	See Notes A-AH-h, A-AH-ii	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
RC1b	RC	Upper Support Plate Assembly	2	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.1-a, IV.B2.1.1	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effects/mechanisms requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the VCSNS Chemistry Program. Additionally, the attributes of the Chemistry Program, as it

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2) . The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Upper Support Plate Assembly	2	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-b, IV.B2.1.1	T.1-11	Yes, Plant Specific	No	Except as noted, the sub-component AMR results are consistent with the identified GALL item which has essentially the same material, environment, aging effect requiring management and credited program. Sub-component material is Stainless Steel, whereas the GALL item lists both Sainless Steel and Nickel-Based alloy. Additionally, the GALL item recommends plant specific evaluation even though a corresponding program, addressing void swelling, is evaluated in GALL Chapter XI (XI.M16). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program attributes (XI.M16) as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a discussion of the attributes of the program in effectively managing aging during the period of extended operation.
RC1b	RC	Upper Support Columns	2, 4	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC),	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.1-e, IV.B2.1.2	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aqing

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Irradiation Assisted Stress Corrosion Cracking (IASCC)								effects/mechanisms requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the VCSNS Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Upper Support Columns	2, 4	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-f, IV.B2.1.2	T.1-11	Yes, Plant Specific	No	Except as noted, the sub-component AMR results are consistent with the identified GALL item which has essentially the same material, environment, aging effect requiring management and credited program. Sub-component material is Stainless Steel, whereas the GALL item lists both Sainless Steel and Nickel-Based alloy. Additionally, the GALL item recommends plant specific evaluation even though a corresponding program, addressing void swelling, is evaluated in GALL Chapter XI (XI.M16). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program attributes (XI.M16) as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a discussion of the attributes of the program in effectively

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														managing aging during the period of extended operation.
RC1b	RC	Upper Support Column Bolts	2, 4	Stainless Steel (Type 316)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-j, IV.B2.1.3	T.1-11	Yes, Plant specific	No	Except as noted, the sub-component AMR results are consistent with the identified GALL item which has essentially the same material, environment, aging effect requiring management and credited program. Sub-component material is Stainless Steel, whereas the GALL item lists both Sainless Steel and Nickel-Based alloy. Additionally, the GALL item recommends plant specific evaluation even though a corresponding program, addressing void swelling, is evaluated in GALL Chapter XI (XI.M16). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program attributes (XI.M16) as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a discussion of the attributes of the program in effectively managing aging during the period of extended operation.
RC1b	RC	Upper Support Column Bolts	2, 4	Stainless Steel (Type 316)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.1-i, IV.B2.1.3	T.1-45, N.1-07	No	Partial	GALL item IV.B2.1-i is referred to herein as IV.B2.1-ii due to an MS Access quirk. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effects/mechanisms requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the VCSNS Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2) . The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection meets the intent of the corresponding GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Chapter XI program (XI.M16) attributes as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Upper Support Column Bolts	2, 4	Stainless Steel (Type 316)	Borated Water	Stress Relaxation	Loss of Preload	Reactor Vessel Internals Inspection	See Note A-RC1b-g.	IV.B2.1-k, IV.B2.1.3	T.1-48	No	Partial	Except as noted, the sub-component AMR results are consistent with the identified GALL item which has essentially the same material, environment, and aging effect requiring management. Sub-component material is Stainless Steel, whereas the GALL item lists both Sainless Steel and Nickel-Based alloy. Additionally, the GALL item recommends a combination of "ISI" (XI.M1) and "Loose Parts Monitoring" (XI.M14) programs for aging management, whereas VCSNS credits the Reactor Vessel Internals Inspection. The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program attributes (XI.M16) as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a discussion of the attributes of the program in effectively managing aging during the period of extended operation.
RC1b	RC	Upper Core Plate (UCP)	1, 3	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-b, IV.B2.1.4	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Upper Core Plate (UCP)	1, 3	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.1-a, IV.B2.1.4	T.1-45, N.1-07	No	Partial	The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match. Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match".
RC1b	RC	Upper Core Plate Alignment Pins	1, 3	Stainless Steel (Type 304)	Borated Water	Wear	Loss of Material	Reactor Vessel Internals Inspection	See Note A-RC1b-f.	IV.B2.1-I, IV.B2.1.5	T.1-40	No	Partial	Material is SS, GALL list both SS and Ni alloy. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Upper Core Plate Alignment Pins	1, 3	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.1-i, IV.B2.1.5	T.1-45, N.1-07	No	Partial	Material is SS, GALL lists both SS and Ni alloy. The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match. Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match".
RC1b	RC	Upper Core Plate Alignment Pins	1, 3	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-j, IV.B2.1.5	T.1-11	Yes, Plant Specific	No	Material is SS, GALL list both SS and Ni alloy. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Core Plate Fuel Alignment Pins	1, 3, 4, 5	Stainless Steel (Type 316)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-f, IV.B2.5.2	T.1-11	Yes, Plant Specific	No	Material is SS, GALL list both SS and Ni alloy. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Core Plate Fuel Alignment Pins	1, 3, 4, 5	Stainless Steel (Type 316)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.5-g, IV.B2.5.2	T.1-43	No	Partial	Material is SS, GALL list both SS and Ni alloy. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
RC1b	RC	Holddown Spring	1	Stainless Steel (Type 403)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-b, IV.B2.1.7	T.1-11	No	Partial	Material is 403 SS, GALL list just SS. The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match. Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Holddown Spring	1	Stainless Steel (Type 403)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.1-a, IV.B2.1.7	T.1-45, N.1-07	No	Partial	Material is 403 SS, GALL list just SS. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes (XI.M2) . The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Holddown Spring	1	Stainless Steel (Type 403)	Borated Water	Stress Relaxation	Loss of Preload	Reactor Vessel Internals Inspection	See Note A-RC1-g	IV.B2.1-d, IV.B2.1.7	T.1-42	No	Partial	Material is 403 SS, GALL list just SS. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Guide Tubes	2	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.2-a, IV.B2.2.1	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Guide Tubes	2	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.2-b, IV.B2.2.1	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Guide Tube Bolts and Support Pins (Split Pins)	2	Stainless Steel (Type 316)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.2-d, IV.B2.2.2, IV.B2.2.3	T.1-45, N.1-07	No	Partial	Material is stainless steel, GALL item lists both stainless steel and Ni alloy. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Guide Tube Bolts and Support Pins (Split Pins)	2	Stainless Steel (Type 316)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.2-b, IV.B2.2.2	T.1-11	Yes, Plant specific	No	Material is SS, GALL list both SS and Ni alloy. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Core Barrel and Flange	1, 3, 6	Stainless Steel (Type 304)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.3-c, IV.B2.3.1	T.1-43	No	Partial	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Core Barrel and Flange	1, 3, 6	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.3-a, IV.B2.3.1, IV.B2.3.3	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Core Barrel and Flange	1, 3, 6	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.3-b, IV.B2.3.1	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Core Barrel Outlet Nozzles	3	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.3-a, IV.B2.3.3	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Core Barrel Outlet Nozzles	3	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.3-b, IV.B2.3.3	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Core Barrel Outlet Nozzles	3	Stainless Steel (Type 304)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.3-c, IV.B2.3.3	T.1-43	No	Partial	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Neutron Panels (Thermal Shields)	6	Stainless Steel (Type 304)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.3-c, IV.B2.3.4	T.1-43	No	Partial	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Neutron Panels (Thermal	6	Stainless Steel	Borated	Crevice Corrosion,	Loss of Material;	Chemistry	See Note A-	IV.B2.3-a,	T.1-45,	No	Partial	Except as noted, the AMR results for this

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Shields)		(Type 304)	Water	Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Cracking	Program; Reactor Vessel Internals Inspection	RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.3.4	N.1-07			sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Neutron Panels (Thermal Shields)	6	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.3-b, IV.B2.3.4	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Baffle and Former	1, 3, 6	Stainless Steel	Borated	Irradiation	Reduction of	Reactor Vessel	See Note A-	IV.B2.4-e.	T.1-43	No	Partial	GALL items IV.B2.4-e addresses reduction of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Assembly		(Type 304)	Water	Embrittlement	Fracture Toughness	Internals Inspection	RC1b-e.	IV.B2.4.1				fracture toughness of the baffle and former assembly. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited program. At VCSNS, void swelling is considered to result in changes in dimensions (distortion) and is not considered to separately result in both a reduction of fracture toughness and in changes in dimensions as is stated for GALL items IV.B2.4-e and IV.B2.4-b, even though the same activity is credited for management of both mechanisms. The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of applicable stainless steel RV Internals (EPRI MRP ITG). This inspection will include visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Baffle and Former Assembly	1, 3, 6	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.4-b, IV.B2.4.1	T.1-11	Yes, Plant Specific	No	GALL item IV.B2.4-b addresses void swelling of the baffle and former plates. The AMR results for this sub-component are consistent with the GALL item with respect to material, environment, aging effect requiring management, and credited program. However, the GALL item recommends plant specific evaluation. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of applicable RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. Even though plant specific evaluation is recommended by the GALL item, the attributes of the Reactor Vessel Internals Inspection meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program (XI.M16) attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Baffle and Former Assembly	1, 3, 6	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.4-a, IV.B2.4.1	T.1-45, N.1-07	No	Partial	GALL items IV.B2.4-a addresses cracking of the baffle and former assembly. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Baffle and Former Assembly Bolts	1, 3, 6	Stainless Steel (Type 316)	Borated Water	Stress Relaxation	Loss of Preload	Reactor Vessel Internals Inspection	See Note A-RC1b-g.	IV.B2.4-h, IV.B2.4.2	T.1-16	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Baffle and Former Assembly Bolts	1, 3, 6	Stainless Steel (Type 316)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.4-f, IV.B2.4.2	T.1-06	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Baffle and Former Assembly Bolts	1, 3, 6	Stainless Steel (Type 316)	Borated Water	Void Swelling, Irradiation Creep	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.4-d, IV.B2.4.2	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG), as well as irradiation creep of the baffle former bolts. This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Core Plate (LCP)	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-b, IV.B2.5.1	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Core Plate (LCP)	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.5-c, IV.B2.5.1	T.1-43	No	Partial	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Core Plate (LCP)	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.5-a, IV.B2.5.1	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Lower Core Plate Fuel Alignment pins	1, 3, 4, 5	Stainless Steel (Type 316)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.5-e, IV.B2.5.2	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Upper Core Plate Fuel Alignment pins	1, 3	Stainless Steel (Type 316)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.1-i, IV.B2.1.6	T.1-45, N.1-07	No	Partial	Material is SS, GALL list both SS and Ni alloy. The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Stress Corrosion Cracking (IASCC)								Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection program meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection program are at best a "Partial Match".
RC1b	RC	Lower Support Plate (LSP)	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.5-n, IV.B2.5.3	T.1-43	No	Partial	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Support Plate (LSP)	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-l, IV.B2.5.3	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Support Plate (LSP)	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Notes A-RC1b-a, A-RC1b-b.	IV.B2.5-k, IV.B2.5.3	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Lower Support Columns	1, 4, 5	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-l, IV.B2.5.4	T.1-11	Yes, Plant Specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Support Columns	1, 4, 5	Stainless Steel (Type 304)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.5-n, IV.B2.5.4	T.1-43	No	Partial	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Lower Support Columns	1, 4, 5	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.5-k, IV.B2.5.4	T.1-45, N.1-07	No	Partial	Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Lower Support Column Bolts	1, 4, 5	Stainless Steel (Type 316)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Notes A-RC1b-a, A-RC1b-b.	IV.B2.5-e, IV.B2.5.5	T.1-45, N.1-07	No	Partial	Material is SS, GALL list both SS and Ni alloy. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Lower Support Column Bolts	1, 4, 5	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals	See Note A-RC1b-d.	IV.B2.5-f, IV.B2.5.5	T.1-11	Yes, Plant Specific	No	Material is SS, GALL list both SS and Ni alloy. The Reactor Vessel Internals

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
								Inspection						Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Radial Keys	1	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.5-a, IV.B2.5.6	T.1-45, N.1-07	No	Partial	GALL list Radial keys and Clevis inserts together. Keys are SS as in GALL, GALL says the Inserts are SS but they are Alloy 600 at VCSNS. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Radial Keys	1	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-b, IV.B2.5.6	T.1-11	Yes, Plant Specific	No	GALL list Radial keys and Clevis inserts together. Keys are SS like GALL, GALL says the Inserts are SS but they are Alloy 600. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Radial Keys	1	Stainless Steel (Type 304)	Borated Water	Wear	Loss of Material	Reactor Vessel Internals Inspection	See Note A-RC1b-f.	IV.B2.5-o, IV.B2.5.6	T.1-40	No	Partial	GALL list Radial keys and Clevis inserts together. Keys are SS like GALL, GALL says the Inserts are SS but they are Alloy 600. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Clevis Inserts	1	Nickel-Based Alloy (Alloy 600)	Borated Water	Wear	Loss of Material	Reactor Vessel Internals Inspection	See Note A-RC1b-f.	IV.B2.5-o, IV.B2.5.6	T.1-40	No	Partial	GALL lists IV.B2.5-o, IV.B2.5.6 as SS for inserts however they are Alloy 600 at VCSNS. However, either material is susceptible to the identified aging effect. As

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														such, the environment, aging effect requiring management, and credited program for the sub-component AMR result are consistent with the specified GALL item. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Clevis Inserts	1	Nickel-Based Alloy (Alloy 600)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-b, IV.B2.5.6	T.1-11	Yes, Plant Specific	No	GALL lists IV.B2.5-b, IV.B2.5.6 as SS for radial keys and clevis inserts, however they are Alloy 600 at VCSNS. However, the environment, aging effect requiring management, and credited program for this sub-component AMR result are consistent with the specified GALL item and nickel-based alloys are conservatively considered to demonstrate the same response to aging as stainless steel. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and/or Wear of susceptible RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes, except as clarified. However, the program is in not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Clevis Inserts	1	Nickel-Based Alloy (Alloy 600)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals	See Notes A-RC1b-c, A-RC1b-b	IV.B2.5-a, IV.B2.5.6	T.1-45, N.1-07	No	Partial	GALL lists IV.B2.5-a, IV.B2.5.6 as SS for clevis inserts, however they are Alloy 600 at VCSNS. As such the inserts are also

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC); Primary Water Stress Corrosion Cracking (PWSCC)		Inspection						susceptible to PWSCC. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanisms requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations and will also address PWSCC of the nickel-based alloy portions of the Reactor Internals. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	RC	Clevis Inserts Bolts	1	Nickel-Based Alloy (X-750)	Borated Water	Stress Relaxation	Loss of Preload	Reactor Vessel Internals Inspection	See Note A-RC1b-g.	IV.B2.5-i, IV.B2.5.7	T.1-42	No	Partial	Material is Alloy X-750, GALL lists both SS and Ni alloy. Except as noted, the AMR results for this component type are consistent with the identified GALL item which has a similar material, environment, aging effect/mechanism and credited programs. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Clevis Inserts Bolts	1	Nickel-Based Alloy (X-750)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-f, IV.B2.5.7	T.1-11	Yes, Plant Specific	No	Material is Alloy X-750, GALL list both SS and Ni alloy. Except as noted, the AMR results for this component type are consistent with the identified GALL item which has a similar material, environment, aging effect/mechanism and credited program. Per the WCAP, the location of the clevis is such that irradiation embrittlement is not an issue and therefore void swelling, which is irradiation related is unlikely. However, conservatively, the specified program is credited for management. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Clevis Inserts Bolts	1	Nickel-Based Alloy (X-750)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC); Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-c, A-RC1b-b.	IV.B2.5-e, IV.B2.5.7	T.1-45, N.1-07	No	Partial	Material is Alloy X-750, GALL list both SS and Ni alloy. Except as noted, the AMR results for this component type are consistent with the identified GALL item which has a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it is applicable to Class 1 components, meet the intent of the corresponding GALL Chapter XI program (XI.M2) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Secondary Core Support	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.1-a	T.1-45, N.1-07	No	Partial	Secondary Core Support is not listed in GALL compare to: IV B2.1-a, IV B2.1.1 for the Upper Support Plate. The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match. Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														best a "Partial Match".
RC1b	RC	Secondary Core Support	1, 3, 4, 5	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-b, IV.B2.1.1	T.1-11	Yes, Plant Specific	No	Secondary Core Support is not listed in GALL compare to: IV.B2.1-b, IV.B2.1.1 for the Upper Support Plate. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Spray Nozzles	3	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.1-a, IV.B2.1.1	T.1-45, N.1-07	No	Partial	Spray Nozzles are not listed in GALL compare to: IV B2.1-a, IV B2.1.1 for the Upper Support Plate. The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match. Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match".
RC1b	RC	Spray Nozzles	3	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-b, IV.B2.1.1	T.1-11	Yes, Plant Specific	No	Spray Nozzles are not listed in GALL compare to: IV.B2.1-b, IV.B2.1.1 for the Upper Support Plate. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Upper Instrumentation Conduit and Supports	4	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-b, IV.B2.1.1	T.1-11	Yes, Plant Specific	No	Upper Instrumentation Columns are not listed in GALL. GALL item IV.B2.1-b addresses the identified aging effect for the Upper Support Plate. Except as noted, the sub-component AMR results are consistent with the identified GALL item which has essentially the same material, environment, aging effect requiring management and credited program. Additionally, the GALL item recommends plant specific evaluation even though a corresponding program, addressing void swelling, is evaluated in GALL Chapter XI (XI.M16). The Reactor Vessel Internals Inspection is a new activity, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program attributes (XI.M16) as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														discussion of the attributes of the program in effectively managing aging during the period of extended operation.
RC1b	RC	Upper Instrumentation Conduit and Supports	4	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.1-a, IV.B2.1.1	T.1-45, N.1-07	No	Partial	Upper Instrumentation Columns are not listed in GALL compare to: IV B2.1-a, IV B2.1.1 for the Upper Support Plate. The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match. Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match".
RC1b	RC	Head/Vessel Alignment Pins	2	Stainless Steel (Type 304)	Borated Water	Wear	Loss of Material	Reactor Vessel Internals Inspection	See Note A-RC1b-f.	IV.B2.5-o, IV.B2.5.6	T.1-40	No	Partial	Head and Vessel Alignment Pins are not listed in GALL compare to: IV B2.5-b, IV B2.5.6 for Radial Keys and Clevis Inserts. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Head/Vessel Alignment Pins	2	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.5-b, IV.B2.5.6	T.1-11	Yes, Plant Specific	No	Head and Vessel Alignment Pins are not listed in GALL compare to: IV B2.5-b, IV B2.5.6 for Radial Keys and Clevis Inserts. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Head/Vessel Alignment Pins	2	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.5-a	T.1-45, N.1-07	No	Partial	Head and Vessel Alignment Pins are not listed in GALL. The material, environment, aging effect requiring management, and credited programs are consistent with GALL item IV B2.5-a which addresses cracking of stainless steel radial keys and clevis inserts. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which has similar material, environment, aging effect/mechanism requiring management and credited programs. Certain aging effects not addressed by the GALL (crevice and pitting corrosion) are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program, as it applies to the environments of Class 1 components, meets the intent of the corresponding GALL Chapter XI program attributes (XI.M2). The Reactor Vessel Internals Inspection is a new activity,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This inspection includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection, when developed, will meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes except as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 inch resolution suggested in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1b	IC	Instrumentation, Incore Thermocouples Seal	4, 7	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RC1b-a, A-RC1b-b.	IV.B2.1-e	N.1-05, N.1-06	No	Partial	Incore Thermocouple seals are not listed in GALL. However, with respect to material, environment, aging effect requiring management, and credited program as clarified, the sub-component AMR results are consistent with GALL item IV.B2.1-e, particularly for the upper most portions of the upper support columns (IV.B2.1.2). Due to their location relative to the core, IASCC (as well as Void Swelling) is not considered a valid aging mechanism, as it is for the lower portions of the upper support columns. Certain aging effects (crevice and pitting corrosion) not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program (XI.M2) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
MU	MU	Tank (XTK0039), Reactor Makeup Water Storage	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-MU-d	VII.F2.4-a, VII.F2.4.1	N.3-01	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SF	RW	Tank (XTK0025), Refueling Water Storage (RWST)	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-SF-j	VII.F3.4-a	N.2-01	Yes, plant specific	No	VII.F3.4-a addresses Ventilation System components. The component/component type AMR results are consistent with the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SS	SS	Tank (XTK0147), Flushing Water Storage	PB	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-SS-q	VII.F2.4-a, VII.F2.4.1	N.3-01	Yes, plant specific	No	VII.F2.4-a addresses Auxiliary and Radwaste Area Ventilation System components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1b	RC	Baffle and Former Assembly Bolts	1, 3, 6	Stainless Steel (Type 316)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Notes A-RC1b-a, A-RC1b-b.	IV.B2.4-c, IV.B2.4.2	T.1-15, N.1-07	Yes, Plant Specific	No	GALL item IV.B2.4-b addresses void swelling of the baffle and former plates. The AMR results for this sub-component are consistent with the GALL item with respect to material, environment, aging effect requiring management, and credited program. However, the GALL item recommends plant specific evaluation. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of applicable RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. Even though plant specific evaluation is recommended by the GALL item, the attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Bottom Mounted Instrumentation (BMI) Columns	4	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Irradiation Assisted Stress Corrosion Cracking (IASCC)	Loss of Material; Cracking	Chemistry Program; Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.6-a, IV.B2.6.1	T.1-45, N.1-07	No	Partial	The Chemistry Program applicable to the Class 1 components is consistent with the criteria in Chapter XI.M2 of the GALL. Therefore, this program by itself is a match. Except as noted, the AMR results for this component type are consistent with the identified GALL items which have a similar material, environment, aging effect/mechanism and credited programs. Certain aging effects not addressed by the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection program meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection program are at best a "Partial Match".
RC1b	RC	Bottom Mounted Instrumentation (BMI) Columns	4	Stainless Steel (Type 304)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-a, A-RC1b-b.	IV.B2.6-b, IV.B2.6.1	T.1-11	Yes, plant specific	No	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection program meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection program are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	IC	Incore Neutron Detector (Flux) Thimbles (XD0004-IC) - Bottom Mounted Instrumentation	4, 7	Stainless Steel (Type 304)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RC1b-a, A-RC1b-b. A-RC1b-b	IV.B2.6-a	N.1-07, N.1-11	No	Partial	BMI (flux) thimbles are listed in GALL only for item IV.B2.-c (IV.B2.6.2). However, with respect to material, environment, aging effect requiring management, and credited program as clarified, the sub-component AMR results are consistent with GALL item IV.B2.6-a, particularly for the lower most portions of the thimble guide tubes (IV.B2.6.1). Due to their location relative to the core, IASCC is not

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														considered a valid aging mechanism, as it is for the upper portions of the thimble guide tubes. Certain aging effects (crevice and pitting corrosion) not addressed by the GALL are also managed by the Chemistry Program. Additionally, the attributes of the Chemistry Program meet the intent of the corresponding GALL Chapter XI program (XI.M2) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	RC	Upper Core Plate Fuel Alignment Pins	1, 3	Stainless Steel (Type 316)	Borated Water	Void Swelling	Changes in Dimensions	Reactor Vessel Internals Inspection	See Note A-RC1b-d.	IV.B2.1-j, IV.B2.1.6	T.1-11	Yes, Plant Specific	No	Material is SS, GALL list both SS and Ni alloy. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program attributes. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1b	IC	Instrumentation, Incore Thermocouples Seal	4, 7	Stainless Steel (Type 304)	Reactor Building	Stress Relaxation, Wear	Loss of Mechanical Closure Integrity	In-Service Inspection (ISI) Plan	See Note A-RC1b-f.	N/A	N.1-04	N/A	N/A	Incore Thermocouple seals are not listed in GALL. The material/enviroment/aging effect combination for this sub-component is not addressed for any GALL item in chapters IV, V, VII, or VIII. Refer to TR00160-020 for a discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
RC1b	IC	Incore Neutron Detector (Flux) Thimbles (XD0004-IC) - Bottom Mounted Instrumentation	4, 7	Stainless Steel (Type 304)	Ventilation *	None Identified	None Identified	None Required	See Note A-RC1b-f.	N/A	N.1-01	N/A	N/A	The sub-component AMR result is for a material and environment combination that is not addressed in GALL Chapters IV, V, VII and VIII (GALL item V.C.1-b addresses the material and includes the environment, along with the internal environment, however, the aging effects for this GALL item are focused on the internal environment effects). Also, for VCSNS, no aqinq effects were determined to

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														require management during the period of extended operation as detailed in the applicable note.
RC1b	RC	Lower Support Column Bolts	1, 4, 5	Stainless Steel (Type 316)	Borated Water	Stress Relaxation	Loss of Preload	Reactor Vessel Internals Inspection	See Note A-RC1b-g.	IV.B2.5-h, IV.B2.5.5	T.1-48	No	Partial	Material is SS, GALL lists both SS and Ni alloy. Except as noted, the sub-component AMR results are consistenet with the specified GALL item with respect to material, environment and aging effect requiring management. Whereas the GALL item specifies the ASME Section XI ISI (XI.M1) and Loose Parts Monitoring (XI.M14), VCSNS credits the Reactor Vessel Internals Inspection. The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of susceptible RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of a corresponding GALL Chapter XI program (XI.M16) attributes, as clarified . However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of GALL program XI.M16.
RC1b	RC	Lower Support Column Bolts	1, 4, 5	Stainless Steel (Type 316)	Borated Water	Irradiation Embrittlement	Reduction of Fracture Toughness	Reactor Vessel Internals Inspection	See Note A-RC1b-e.	IV.B2.5-g, IV.B2.5.5	T.1-43	No	Partial	The Reactor Vessel Internals Inspection is a new activity/program, supplementing ISI, to address Irradiation Embrittlement, IASCC, Stress Relaxation, Void Swelling, and Wear of stainless steel RV Internals (EPRI MRP ITG). This program includes visual and volumetric examinations. The attributes of the Reactor Vessel Internals Inspection meet the intent of the corresponding GALL Chapter XI program (XI.M16) attributes, as clarified. However, the program is not completely developed and it is unlikely it will include the 0.0005 in resolution shown in XI.M16. For this reason, all items covered by the Reactor Vessel Internals Inspection are at best a "Partial Match". Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL program.
EF	EF	Pipe and Fittings	PB	Carbon Steel	Underground	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Microbiologically Induced Corrosion (MIC), Pitting Corrosion	Loss of Material	Buried Piping and Tanks Inspection	See Note A-EF-y	VIII.G.1-e, VIII.G.1.2	T.4-12	Yes, detection of aging effects and operating experience are to be further evaluated.	Partial	VIII.G.1-e addresses Auxiliary Feedwater System components. The material, environment, aging effects requiring management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effects and credited activity. However, the attributes of the credited activity are not fully consistent with the corresponding program attributes as described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Traps (Body Only)	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-MS-ii, See Note A-MS-j	VIII.B1.1-a, VIII.B1.1.2	T.4-07	No	Yes	VIII.B1.1-a addresses Main Steam System piping and fittings. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
GS	GS	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-GS-a, See Note A-GS-b	VIII.B1.2-a, VIII.B1.2.1	T.4-07	No	Yes	VIII.B1.2-a addresses Main Steam System valve bodies. The material, environment, aging effects requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Certain aging effects not addressed by the GALL item are also managed by the credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														of the pertinent GALL program.
GS	GS	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-GS-c, See Note A-GS-d	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
GS	GS	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-GS-c, See Note A-GS-d	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
GS	GS	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-GS-c, See Note A-GS-d	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
MS	MS	Traps (Body Only)	PB	Alloy Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-MS-k, See Note A-MS-l	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel/alloy steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	MS	Traps (Body Only)	PB	Alloy Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-MS-k, See Note A-MS-I	VIII.H.1-a, VIII.H.1.1	T.4-13	No	Yes	VIII.H.1-a addresses external surfaces of carbon steel/alloy steel components. The material, environment, aging effect requiring management and credited activity for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited activity. Additionally, the attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
FS	FS	Pipe and Fittings	PB	Galvanized Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-FS-o, See Note A-FS-p	VII.I.1-b, VII.I.1.1	T.3-05	Yes, plant specific	No	VII.I.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
IA	IA	Tube & Tube Fittings	PB	Copper	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-IA-k See Note A-IA-p	N/A	N.3-09	N/A	N/A	Component/Component type has a unique material/environment combination that is not addressed for any item in GALL Chapters IV, V, VII or VIII and the AMR results for this component/component type are therefore, specific to VCSNS. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
AH	AH	Cooling Coils (XAA-1A/B, -2A/B-AH), RCBUs - Headers	PB	Copper	Reactor Building	Galvanic Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-AH-c	VII.F1.2-a, VII.F1.2.1	T.3-05	Yes, plant specific	No	VII.F1.2-a addresses Control Room Area Ventilation System components. VCSNS determined that loss of material due to crevice and pitting corrosion are not aging effects requiring management for this component/component type. The component/component type AMR results are consistent with the identified GALL item in material and environment, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activity in effectively managing aging during the period of extended operation.
RC	RC	Drip Pan - RCP Oil Collection	FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Drip Pan - RCP Oil Collection	FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-b, VII.G.7.2	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Flame Arresters (XPS5021A/B/C-RC) - RCP Oil Collection	FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-b, VII.G.7.2	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Flame Arresters (XPS5021A/B/C-RC) - RCP Oil Collection	FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Flexible Hose - RCP Oil Collection	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-b, VII.G.7.2	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Flexible Hose - RCP Oil	PB	Stainless Steel	Reactor	None Identified	None Identified	None Required	TR00160-010,	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Collection			Building				Attachment IX					not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Orifices	PB, TH	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RC-e	V.C.1-b	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Orifices	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RC-b, See Note A-RC-c	IV.C2.1-c	N.1-05, N.1-06	No	Partial	IV.C2.1-c addresses Reactor Coolant System piping and fittings. VCSNS found that cracking due to fatigue and cyclic loading are not aging effects for orifices and that the ISI Program identified in the GALL for this item is not applicable for these aging effects. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material and environment. Certain aging effects not addressed by the GALL item are also managed by the credited program. The attributes of the credited program meet the intent of a GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC	RC	Orifices	PB, TH	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
RC	RC	Pipe and Fittings	PB	Stainless Steel	Sheltered	Microbiologically Induced Corrosion (MIC)	Loss of Material	Maintenance Rule Structures Program	See Note A-RC-e	V.C.1-b, V.C.1.2	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. VCSNS found that loss of material due to crevice and pitting corrosion are not aging effects for stainless steel exposed to ambient air. The identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC	RC	Pipe and Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Pipe and Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RC-b, See Note A-RC-c	IV.C2.1-c	N.1-05, N.1-06	No	Partial	IV.C2.1-c addresses Reactor Coolant System piping and fittings. VCSNS found that cracking due to fatigue and cyclic loading are not aging effects for this component and that the ISI Program identified in the GALL for this item is not applicable for these aging effects. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material and environment. Certain aging effects not addressed by the GALL item are also managed by the credited program. The attributes of the credited program meet the intent of a GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC	RC	Pipe - RCP Oil Collection	PB, FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-b, VII.G.7.2	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
RC	RC	Pipe - RCP Oil Collection	PB, FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK0130A/B/C) - RCP Oil Collection Drain Tank	FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-a, VII.G.7.1	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended opeation as detailed in the applicable note.
RC	RC	Tanks (XTK0130A/B/C) - RCP Oil Collection Drain Tank	FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK1) - RCP Oil Collection Cooler Enclosure)	FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK1) - RCP Oil Collection Cooler Enclosure)	FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-a, VII.G.7.1	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended opeation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK2) - RCP Oil Collection Lift Enclosure	FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK2) - RCP Oil Collection Lift Enclosure	FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-a, VII.G.7.1	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK3) - RCP Oil Collection Fill & Drain Enclosure	FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-a, VII.G.7.1	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK3) - RCP Oil Collection Fill & Drain Enclosure	FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK4) - RCP Oil Collection Upper Alarm & Gauge Enclosure	FP	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-a, VII.G.7.1	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-a addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tanks (XTK3000A/B/C-TK4) - RCP Oil Collection Upper Alarm & Gauge Enclosure	FP	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation as detailed in the applicable note.
RC	RC	Tube & Tube Fittings	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tube & Tube Fittings	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RC-e	V.C.1-b	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Tube & Tube Fittings	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RC-b, See Note A-RC-c	IV.C2.2-f, IV.C2.2.6	N.1-05, N.1-06	No	Partial	IV.C2.2-f addresses piping and fittings for systems connected to the Reactor Coolant System. VCSNS found that cracking due to fatigue is not an aging effect for this component and that the ISI Program identified in the GALL for this item is not applicable for this aging effect. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material, and environment. Certain aging effects not addressed by the GALL item are also managed by the credited program. The attributes of the credited program meet the intent of a GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC	RC	Tube & Tube Fittings	PB	Stainless Steel	Treated Water	None Identified	None Identified	None Required	See Note A-RC-d	V.C.1-b	N.1-12	Yes, plant specific	No	V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														operation as detailed in the applicable note.
RC	RC	Valves (Body Only)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Note A-RC-b, See Note A-RC-c	IV.C2.4-b, IV.C2.4.1	N.1-05, N.1-06	No	Partial	IV.C2.4-b addresses Reactor Coolant System valve bodies. VCSNS found that cracking due to fatigue is not an aging effect for this component and that the ISI Program identified in the GALL for this item is not applicable for this aging effect. Except as noted, the AMR results for this component/component type are consistent with the identified GALL item which has a similar material and environment. Certain aging effects not addressed by the GALL item are also managed by the credited program. The attributes of the credited program meet the intent of a GALL Chapter XI program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC	RC	Valves (Body Only)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	V.C.1-b	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Valves (Body Only)	PB	Stainless Steel	Sheltered	None Identified	None Identified	None Required	See Note A-RC-e	V.C.1-b	N.1-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does not address the external surface of stainless steel components. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Valves (Body Only) - RCP Oil Collection	PB	Stainless Steel	Oil	None Identified	None Identified	None Required	See Note A-RC-a	VII.G.7-b, VII.G.7.2	T.3-06	Yes, detection of aging effects is to be evaluated	No	VII.G.7-b addresses Reactor Coolant Pump Oil Collection System components. The component/component type AMR results are consistent with the identified GALL item in environment. However, for VCSNS, no aging effects were determined to require management during the period of extended opeation as detailed in the applicable note.
RC	RC	Valves (Body Only) -	PB	Stainless Steel	Reactor	None Identified	None Identified	None Required	TR00160-010,	V.C.1-b	N.3-01	Yes, plant specific	No	GALL Section IV.C2, for RCS piping, does

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		RCP Oil Collection			Building				Attachment IX					not address the external surface of stainless steel components. Neither does GALL Section VII.G.7, RCP oil collection. However, GALL item V.C.1-b addresses the external surface of stainless steel containment Isolation components. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1a	IC	XD0003-IC, XD0005-IC - Tube & Fittings / Incore Neutron Detector Conduits (BMI guide tubes)	PB, Support	Stainless Steel	Ventilation *	None Identified	None Identified	None Required	See Note A-RC1a-ii.	N/A	N.1-01	N/A	N/A	The sub-component AMR results address a material and environment combination that cannot be readily connected to a GALL Chaper IV, V, VII, or VIII item. GALL item IV.A2.2-e addressed a stainless steel / ambient air combination. However, that GALL item addresses cracking of bolt material and is not applicable to the BMI guide tubes & fittings. Also, for VCSNS BMI guide tubes, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1a	IC	XD0003-IC, XD0005-IC - Tube & Fittings / Incore Neutron Detector Conduits (BMI guide tubes)	PB, Support	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1a-a and A-RC1a-b.	IV.C2.1-g, IV.C2.1.5	N.1-07, N.1-11	Yes, parameters monitored/inspected and detection of aging effects are to be evaluated	Partial	IV.C2.1-g addresses RCS piping and fittings (< NPS 4) and crack initiation/growth and is the closest match with regards to material, environment, and aging effect requiring management to the Bottom Mounted Instrumentation (BMI) guide tubes AMR results. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which have a similar material, environment, aging effect/mechanism requiring management. In addition to cracking, certain aging effects (loss of material due to crevice and/or pitting corrosion) not addressed by the GALL item are also managed by the credited program. However, VCSNS determined the Chemistry program to be sufficient to manage the specified effects in this particular instance, since thermal and mechanical loading on the BMI guides tubes would be much less than that on other small bore pipe, whereas the GALL item specifies a combination of ISI and Chemistry. Additionally, the attributes of the credited program meet the intent of a GALL Chapter XI program (XI.M2),. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity ineffectively managing aging during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation and in meeting the intent of a pertinent GALL program.
RC1a	RC	XRD0008 - CRDM Latch Housing	PB	Stainless Steel (CASS)	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX; WCAP-14581. See Note A-RC1a-j.	N/A	N.1-01	N/A	N/A	The sub-component AMR results address a material and environment combination that cannot be readily connected to a GALL Chaper IV, V, VII, or VIII item. GALL item IV.A2.2-e addressed a stainless steel / ambient air combination. However, that GALL item addresses cracking of flange bolt material and is not applicable to the VCSNS CRDM housing. Also, for VCSNS CRDM housings, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1a	RC	XRD0008 - CRDM Latch Housing	PB	Stainless Steel (CASS)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-a, See Note A-RC1a-b	IV.A2.2-b, IV.A2.2.2	T.1-36, N.1-07	No	Yes	GALL item IV.A2.2-b addresses stress corrosion cracking of the CRDM pressure housing. The material, environment, aging effect requiring management, and credited programs for this component are consistent with the identified GALL item, as clarified. Certain aging mechanisms (crevice and pitting corrosion) not addressed by the GALL item are also managed by one of the credited programs (Chemistry). The Chemistry program is the primary program credited for aging management, whereas the ISI Plan supplements Chemistry control for this sub-component, with regard to cracking. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the programs in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1 respectively).
RC1a	RC	XRD0008 - CRDM Rod Travel Housing	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-a, See Note A-RC1a-b	IV.A2.2-b, IV.A2.2.2	T.1-36, N.1-07	No	Yes	GALL item IV.A2.2-b addresses stress corrosion cracking of the CRDM pressure housing. The material, environment, aging effect requiring management, and credited programs for this component are consistent with the identified GALL item, as clarified. Certain aging mechanisms (crevice and pitting corrosion) not addressed by the GALL item are also managed by one of the credited programs (Chemistry). The Chemistry program is the primary program credited for aging management, whereas the ISI Plan supplements Chemistry control for this sub-component, with regard to cracking. Additionally, the attributes of the credited

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														programs meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the programs in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1 respectively).
RC1a	RC	XRD0008 - CRDM Rod Travel Housing	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX; WCAP-14581. See Note A-RC1a-j	N/A	N.1-01	N/A	N/A	The sub-component AMR results address a material and environment combination that cannot be readily connected to a GALL Chaper IV, V, VII, or VIII item. GALL item IV.A2.2-e addressed a stainless steel / ambient air combination. However, that GALL item addresses cracking of flange bolt material and is not applicable to the VCSNS CRDM housing. Also, for VCSNS CRDM housings, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1a	RC	XRD0008 - CRDM Top Top Cap/Vent Plug	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX; WCAP-14581	N/A	N.1-01	N/A	N/A	The sub-component AMR results address a material and environment combination that cannot be readily connected to a GALL Chaper IV, V, VII, or VIII item. GALL item IV.A2.2-e addressed a stainless steel / ambient air combination. However, that GALL item addresses cracking of flange bolt material and is not applicable to the VCSNS CRDM cap. Also, for VCSNS CRDM caps, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1a	RC	XRD0008 - CRDM Top Top Cap/Vent Plug	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-a, See Note A-RC1a-b	IV.A2.2-b, IV.A2.2.2	T.1-36, N.1-07	No	Yes	GALL item IV.A2.2-b addresses stress corrosion cracking of the CRDM pressure housing. The material, environment, aging effect requiring management, and credited programs for this component are consistent with the identified GALL item, as clarified. Certain aging mechanisms (crevice and pitting corrosion) not addressed by the GALL item are also managed by one of the credited programs (Chemistry). The Chemistry program is the primary program credited for aging management, whereas the ISI Plan supplements Chemistry control for this sub-component, with regard to cracking. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the programs in meeting the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														pertinent GALL programs (XI.M2 and XI.M1 respectively).
RC1a	RC	XRE0001 - RV Bottom Head Dome	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.1-a, IV.A2.1.1	T.1-38	No	Yes	GALL Item IV.A2.1-a addresses boric acid corrosion of the closure head dome (IV.A2.1.1). The material, environment, aging effect requiring management, and the credited program for this component (bottom head dome) are consistent with the identified GALL item. The bottom head dome (IV.A2.5.4) is not addressed for boric acid corrosion explicitly in the GALL. The attributes of the credited activity meets the intent of the corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Bottom Head Dome (Cladding)	PB	Alloy Steel clad w/ Austenitic Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-g, See Note A-RC1a-h	IV.A2.2-b	T.1-36, N.1-07	No	Partial	GALL Item IV.A2.5-d addresses cumulative fatigue and includes the bottom head (IV.A2.5.4), the only location in the GALL for the bottom head. The sub-component AMR results are consistent with that GALL item in material and environment. However, cumulative fatigue is addressed in technical reports TR00140-001 and TR00140-002 and has not been explicitly identified as an aging effect, although flaw growth at welds is an aging mechanism and is related to service (cyclic) loading. However, the material, environment, aging effect requiring management and credited aging management programs are consistent with GALL item IV.A2.2-b, as clarified. GALL item IV.A2.2-b addresses SCC of the stainless steel CRDM housing. The material for this GALL item is consistent with the cladding material for the sub-component and both are susceptible to SCC. Additional mechanisms not addressed in the GALL (crevice and pitting corrosion, and flaw growth at welds) are also managed at VCSNS. Additionally, the attributes of the credited programs, as applied to Class 1 components meet the intent of corresponding GALL program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the corresponding GALL program (XI.M1 and XI.M2) attributes.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
RC1a	RC	XRE0001 - RV Bottom Head Penetration Tubes	PB	Nickel-Based Alloy	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan; Alloy 600 Aging Management Program	See Note A-RC1a-c, See Note A-RC1a-d	IV.A2.7-a, IV.A2.7.1	T.1-12, N.1-07	Yes, plant specific	No	GALL item IV.A2.7-a addresses PWSCC of RV bottom head penetration tubes. The material, environment, aging effects requiring management, and credited programs for this sub-component AMR result are consistent with the identified GALL item. However, additional aging effects (crevice corrosion, pitting corrosion, and SCC) were identified and are managed for VCSNS. One of these aging mechanisms (SCC) and the corresponding credited aging management programs are consistent with another GALL Chapter IV item, IV.A2.2-b, for stainless steel in the same environment. These aging mechanisms were conservatively considered to also be applicable to nickel-based alloys. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (X1.M2, and XI.M1 respectively) attributes. Also, even though the GALL item (IV.A2.7-a) recommends plant specific program evaluation. The attributes of the Alloy 600 Aging Management Program meet the intent of GALL program XI.M11 (Nickel-Alloy Nozzles and Penetrations) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in meeting the intent of the pertinent GALL programs.
RC1a	RC	XRE0001 - RV Bottom Head Penetration Tubes	PB	Nickel-Based Alloy	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX; WCAP-14581	N/A	N.1-02	N/A	N/A	The sub-component AMR results are for a material and environment combination that is not addressed in the GALL Report, especially in Chapter IV. Also, no aging effects were determined to require management during the period of extended operation as per the applicable note.
RC1a	RC	XRE0001 - RV Closure Head & Vessel Flanges	PB	Alloy Steel	Reactor Building	Wear	Loss of Material	In-Service Inspection (ISI) Plan	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.5-f, IV.A2.5.3	T.1-40	No	Yes	GALL item IV.A2.5-f addresses wear of the vessel flange (IV.A2.5.3). The material, environment, aging effects requiring management, and the credited programs for this sub-component are consistent with the identified GALL item. Also, the attributes of the credited program meets the intent of the corresponding GALL Chapter XI program (XI.M1) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended opeation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Closure Head & Vessel Flanges	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aqgressive Chemical	Loss of Material	Boric Acid Corrosion	See Note A-RC1a-e, See	IV.A2.5-e, IV.A2.5.3	T.1-38	No	Yes	GALL item IV.A2.5-e addresses boric acid corrosion of the vessel flange(IV.A2.5.3)

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Attack)		Surveillances	Note A-RC1a-f					respectively. The material, environment, aging effects requiring management, and the credited programs for this sub-component are consistent with the identified GALL item. Also, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended opeation and in meeting the intent of the pertinent GALL programs.
RC1a	RC	XRE0001 - RV Closure Head & Vessel Flanges (Cladding)	PB	Alloy Steel clad w/ Austenitic Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-g, See Note A-RC1a-h	IV.A2.2-b	T.1-36, N.1-07	No	Partial	GALL Item IV.A2.5-d addresses cumulative fatigue and includes the vessel flange (IV.A2.5.3), the only location in the GALL for the vessel flange and exposure to chemically treated borated water. The sub-component AMR results are consistent with that GALL item in material and environiment. However, cumulative fatigue is addressed in technical reports TR00140-001 and TR00140-002 and has not been explicitly identified as an aging effect, although flaw growth at welds is an aging mechanism and is related to service (cyclic) loading. However, the material, environment, aging effect requiring management and credited aging management programs are consistent with GALL item IV.A2.2-b, as clarified. GALL item IV.A2.2-b addresses SCC of the stainless steel CRDM housing. The material for this GALL item is consistent with the cladding material for the sub-component and both are susceptible to SCC. Additional mechanisms not addressed in the GALL (crevice and pitting corrosion, and flaw growth at welds) are also managed at VCSNS. Additionally, the attributes of the credited programs, as applied to Class 1 components meet the intent of corresponding GALL program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the corresponding GALL program (XI.M1 and XI.M2) attributes.
RC1a	RC	XRE0001 - RV Closure Head Dome & Lifting Lugs	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.1-a, IV.A2.1.1	T.1-38	No	Yes	GALL Item IV.A2.1-a addresses boric acid corrosion of the closure head dome (IV.A2.1.1). The material, environment, aging effect requiring management, and the credited program for the sub-component AMR results are consistent with the identified

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL item. The attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Closure Head Dome (Cladding)	PB	Alloy Steel clad w/ Austenitic Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-g, See Note A-RC1a-h	IV.A2.2-b	T.1-36, N.1-07	No	Partial	GALL Item IV.A2.1-b addresses cumulative fatigue of the closure dome (IV.A2.1.1) with exposure to borated water, the only GALL location which addresses the sub-component/material/environment combination. The sub-component AMR results are consistent with that GALL item in material and environment. However, the material, environment, aging effect requiring management and credited aging management programs are consistent with GALL item IV.A2.2-b, as clarified. GALL item IV.A2.2-b addresses SCC of the stainless steel CRDM housing. The material for this GALL item is consistent with the cladding material for the sub-component and both are susceptible to SCC. Additional mechanisms not addressed in the GALL (crevice and pitting corrosion, and flaw growth at welds) are also managed at VCSNS. Additionally, the attributes of the credited programs, as applied to Class 1 components meet the intent of corresponding GALL program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the corresponding GALL program (XI.M1 and XI.M2) attributes.
RC1a	RC	XRE0001 - RV Closure Head Penetration Safe Ends (CR, Instrument , Vent Pipe)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-a, See Note A-RC1a-b	IV.A2.2-b, IV.A2.2.2	T.1-36, N.1-07	No	Yes	GALL item IV.A2.2-b address stress corrosion cracking of the CRDM pressure housing. The material, environment, aging effect requiring management, and credited programs for this component are consistent with the identified GALL item, as clarified. Certain aging mechanisms (crevice and pitting corrosion) not addressed by the GALL item are also managed by one of the credited programs (Chemistry). The Chemistry program is the primary program credited for aging management, whereas the ISI Plan supplements Chemistry control for this sub-component, with regard to cracking.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the programs in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1 respectively).
RC1a	RC	XRE0001 - RV Closure Head Penetration Safe Ends (CR, Instrument , Vent Pipe)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX; WCAP-14581	N/A	N.1-01	N/A	N/A	The sub-component AMR results address a material and environment combination that cannot be readily connected to a GALL Chaper IV, V, VII, or VIII item. GALL item IV.A2.2-e addressed a stainless steel / ambient air combination. However, that GALL item addresses cracking of flange bolt material (implies SCC of bolting due to the presence boric acid) and is not applicable to the VCSNS safe ends. Also, for VCSNS RV safe ends, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1a	RC	XRE0001 - RV Closure Head Penetration Tubes (CR, Instrument , Vent Pipe)	PB	Nickel-Based Alloy	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan; Alloy 600 Aging Management Program	See Note A-RC1a-c, See Note A-RC1a-d	IV.A2.2-a, IV.A2.2.1	T.1-35, N.1-07, N.1-11B	No	Partial	GALL item IV.A2.2-a addresses PWSCC of control rod drive head penetration nozzles. The material, environment, aging effect requiring management, and credited programs for this sub-component AMR result are consistent with the identified GALL item with regard to PWSCC. However, additional aging effects (crevice corrosion, pitting corrosion, and SCC) were identified and are managed for VCSNS. One of these aging mechanisms (SCC) and the corresponding credited aging management programs are consistent with another GALL Chapter IV item, IV.A2.2-b, for stainless steel in the same environment. These aging mechanisms were conservatively considered to also be applicable to nickel-based alloys. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (X1.M2, and XI.M1 respectively) attributes. Also, the attributes of the Alloy 600 Aging Management Program meet the intent of GALL program XI.M11 (Nickel-Alloy Nozzles and Penetrations) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in meeting the intent of the pertinent GALL programs.
RC1a	RC	XRE0001 - RV Closure Head Penetration Tubes (CR, Instrument , Vent	PB	Nickel-Based Alloy	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX; WCAP-14581	N/A	N.1-02	N/A	N/A	The sub-component AMR results are for a material and environment combination that is not addressed in the GALL Report, especially

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Pipe)												in Chapter IV. Also, no aging effects were determined to require management during the period of extended operation as per the applicable note.
RC1a	RC	XRE0001 - RV Closure Stud Assembly (including nuts & washers)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.1-a, IV.A2.1.3	T.1-38	No	Yes	The material, environment, aging effects requiring management, and the credited activity for this sub-component are consistent with the identified GALL item which have the same material, environment, aging effect, and credited program. The attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Closure Stud Assembly (including nuts & washers)	PB	Alloy Steel	Reactor Building	Stress Relaxation, Stress Corrosion Cracking (SCC), Wear	Loss of Mechanical Closure Integrity	Reactor Head Closure Studs Program	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.1-c, IV.A2.1-d, IV.A2.1.3	T.1-22, T.1-47	No	Yes	GALL items IV.A2.1-c and IV.A2.1-d address stress corrosion cracking and wear respectively of the closure stud assembly (IV.A2.1.3). The material, environment, aging effect requiring management, and credited aging management program for this sub-component are consistent with the identified GALL item, with the clarification that a loss of closure integrity rather than loss of material is the effect requiring management and the additional mechanism of stress relaxation being managed. Also, the attributes of the credited program are consistent with the corresponding program (XI.M3) attributes described in GALL Chapter XI. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Core Support Pads (Clevises/Keyways)	PB	Nickel-Based Alloy	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds; Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Note A-RC1a-c, See Note A-RC1a-d	IV.A2.6-a	T.1-12, N.1-07	Yes, plant specific	No	GALL item IV.A2.6-a addresses PWSCC of core support pads. The material, environment, aging effect requiring management, and credited program for this sub-component AMR result are consistent with the identified GALL item with regard to PWSCC. However, additional aging effects (crevice corrosion, pitting corrosion, SCC, and flaw growth at welds) were identified and are managed for VCSNS. One of these aging mechanisms (SCC) and the corresponding credited aging management programs are consistent with another GALL Chapter IV item, IV.A2.2-b, for stainless steel in the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														same environment. These aging mechanisms were conservatively considered to also be applicable to nickel-based alloys. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (X1.M2, and XI.M1 respectively) attributes. Also, even though the GALL item (IV.A2.6-a) recommends plant specific program evaluation, the credited program (ISI Plan) meets the intent of a corresponding GALL program (XI.M1), and provides adequate management of PWSCC as detailed in the applicable Note. Refer to TR00160-020 for a detailed discussion of the attributes of these programs effectively managing aging during the period of extended operation.
RC1a	RC	XRE0001 - RV Inlet & Outlet Nozzle Safe Ends	PB	Nickel-Based Alloy	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds, Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan; Alloy 600 Aging Management Program	See Note A-RC1a-c, See Note A-RC1a-d	IV.A2.4-b, IV.A2.4.1, IV.A2.4.2	T.1-36, N.1-07	No	Yes	The material, environment, aging effects requiring management, and credited programs for this sub-component (alloy 600 weld metal) are consistent with the identified GALL item. However, additional aging effects/mechanisms (crevice & pitting corrosion and flaw growth at welds) were identified and are managed for VCSNS. These aging mechanisms were conservatively considered to also be applicable to nickel-based alloys. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (X1.M2, XI.M1, and XI.M11 respectively) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these programs/activities in meeting the intent of the pertinent GALL programs.
RC1a	RC	XRE0001 - RV Inlet & Outlet Nozzle Safe Ends	PB	Nickel-Based Alloy	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX; WCAP-14581	N/A	N.1-02	N/A	N/A	The sub-component AMR results are for a material and environment combination that is not addressed in the GALL Report, especially in Chapter IV. Also, no aging effects were determined to require management during the period of extended operation as per the applicable note.
RC1a	RC	XRE0001 - RV Inlet & Outlet Nozzles (including cladding)	PB	Alloy Steel clad w/ Austenitic Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds; Radiation Embrittlement	Loss of Material; Cracking; Reduction of Fracture Toughness	Chemistry Program; In-Service Inspection (ISI) Plan; Reactor Vessel Surveillance Program	See Note A-RC1a-g, See Note A-RC1a-h	IV.A2.3-b, IV.A2.3.1, IV.A2.3.2	T.1-05, N.1-07	Yes, plant specific	No	GALL Item IV.A2.3-b addresses neutron embrittlement of the inlet/outlet nozzles (IV.A2.3.1 and IV.A2.3.2). The sub-component AMR results are consistent with the identified GALL item in material, environment, and aging effect requiring management, as clarified. Other aging mechanisms requiring management (crevice & pitting corrosion, SCC, and flaw growth at welds) that are not addressed in GALL for

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														<p>this item are applicable to this sub-component. Also, the material (cladding), environment, aging effect requiring management (SCC) and credited aging management programs (Chemistry Program and ISI Plan) for these other aging effects are consistent with GALL item IV.A2.2-b, which addresses SCC of the stainless steel CRDM housing. Furthermore, the attributes of these programs, as applied to Class 1 components, are consistent with the attributes of corresponding GALL programs (XI.M2 and XI.M1 respectively). Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.</p> <p>Even though GALL item IV.A2.3-b recommends plant specific evaluation, the item specifies a GALL chapter XI program (XI.M31) for management. The upper shell and nozzles are not normally considered to be susceptible to radiation embrittlement due to their physical distance from the active fuel assemblies. However, the Reactor Vessel Surveillance program will manage radiation embrittlement in the upper shell (nozzle) course through addressing the most limiting sub-components with respect to exposure to the greatest fluence (i.e. those sub-components adjacent to active fuel assemblies) as well as confirming that fluence levels, postulated to occur in and around the nozzle course during the period of extended operation, will not reach levels sufficient to cause embrittlement. However, as described in TR00160-020, the attributes of the Reactor Vessel Surveillance Program are not fully consistent with the attributes of the corresponding GALL program (XI.M31). Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.</p>
RC1a	RC	XRE0001 - RV Inlet & Outlet Nozzles (including Nozzle Support Pads)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.5-e, IV.A2.5.3	T.1-38	No	Yes	The material, environment, aging effects requiring management, and the credited activity for this sub-component are consistent with the identified GALL item which have the same material, environment, aging effect, and credited program. The attributes of the credited activity meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Shell, Core Region	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.5-e	T.1-38	No	Yes	The material, environment, aging effects requiring management, and the credited activity for this sub-component are consistent with the identified GALL item which have the same material, environment, aging effect, and credited program. The attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Shell, Core Region - Intermediate and Lower Shell Plates (including cladding)	PB	Alloy Steel clad w/ Austenitic Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds; Radiation Embrittlement	Loss of Material; Cracking; Reduction of Fracture Toughness	Chemistry Program; In-Service Inspection (ISI) Plan; Reactor Vessel Surveillance Program	See Note A-RC1a-g, See Note A-RC1a-h	IV.A2.5-c, IV.A2.5.2	T.1-05, N.1-07	Yes, plant specific	No	GALL Item IV.A2.5-c addresses neutron irradiation embrittlement of the shell, including upper (IV.A2.5.1) and intermediate/lower (IV.A2.5.2). The sub-component AMR results are consistent with the identified GALL item in material, environment, aging effect requiring management and credited aging management program, as clarified. However, the GALL item specifies plant specific evaluation even though the specified program (XI.M31) is addressed in GALL chapter XI. Also, other aging effects requiring management (crevice & pitting corrosion, flaw growth at welds, and SCC) that are not addressed in GALL for this item are applicable to this sub-component. The material (cladding), environment, aging effect requiring management (SCC) and credited aging management programs for these other aging mechanisms are consistent with GALL item IV.A2.2-b, which addresses SCC of stainless steel in the same environment. Additionally, the attributes of the credited programs for management of SCC and flaw growth at welds (as well as crevice &/or pitting corrosion) are consistent with the attributes of the corresponding GALL programs Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														and in meeting the intent of the corresponding GALL program (XI.M2 and XI.M1 respectively). Even though GALL item IV.A2.5-c recommends plant specific evaluation, the item specifies a GALL chapter XI program (XI.M31) for management. However, the attributes of the Reactor Vessel Surveillance Program are not fully consistent with the attributes of the corresponding GALL program (XI.M31), as described in TR00160-020. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation.
RC1a	RC	XRE0001 - RV Shell, Nozzle Course & Refueling Seal Ledge	PB	Alloy Steel & Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.5-e	T.1-38	No	Yes	The material, environment, aging effects requiring management, and the credited activity for this sub-component are consistent with the identified GALL item which have the same material, environment, aging effect, and credited program. The attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1a	RC	XRE0001 - RV Shell, Upper Shell (Nozzle) Course (including cladding)	PB	Alloy Steel clad w/ Austenitic Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds; Radiation Embrittlement	Loss of Material; Cracking; Reduction of Fracture Toughness	Chemistry Program; In-Service Inspection (ISI) Plan; Reactor Vessel Surveillance Program	See Note A-RC1a-g, See Note A-RC1a-h	IV.A2.5-c, IV.A2.5.1	T.1-05, N.1-07	Yes, plant specific	No	GALL Item IV.A2.5-c addresses neutron irradiation embrittlement of the shell, including upper (IV.A2.5.1) and intermediate/lower (IV.A2.5.2). The sub-component AMR results are consistent with the identified GALL item in material, environment, aging effect requiring management and credited aging management program, as clarified. However, the GALL item specifies plant specific evaluation even though the specified program (XI.M31) is addressed in GALL chapter XI. Also, other aging effects requiring management (crevice & pitting corrosion, flaw growth at welds, and SCC) that are not addressed in GALL for this item are applicable to this sub-component. The material (cladding), environment, aging effect requiring management (SCC) and credited aging management programs for these other aging mechanisms are consistent with GALL item IV.A2.2-b, which addresses SCC of stainless steel in the same environment.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														<p>Additionally, the attributes of the credited programs for management of SCC and flaw growth at welds (as well as crevice &/or pitting corrosion) are consistent with the attributes of the corresponding GALL programs Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the corresponding GALL program (XI.M2 and XI.M1 respectively).</p> <p>Even though GALL item IV.A2.5-c recommends plant specific evaluation, the item specifies a GALL chapter XI program (XI.M31) for management. The upper shell and nozzles are not normally considered to be susceptible to radiation embrittlement due to their physical distance from the active fuel assemblies. However, the Reactor Vessel Surveillance program will manage radiation embrittlement in the upper shell (nozzle) course through addressing the most limiting sub-components with respect to exposure to the greatest fluence (i.e. those sub-components adjacent to active fuel assemblies) as well as confirming that fluence levels, postulated to occur in and around the nozzle course during the period of extended operation, will not reach levels sufficient to cause embrittlement. However, the attributes of the Reactor Vessel Surveillance Program are not fully consistent with the attributes of the corresponding GALL program (XI.M31), s described in TR00160-020. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation.</p>
RC1a	RC	XRE0001 - RV Ventilation Shroud Support Ring	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-RC1a-e, See Note A-RC1a-f	IV.A2.5-e	T.1-38	No	Yes	The material, environment, aging effects requiring management, and the credited activity for this sub-component are consistent with the identified GALL item which have the same material, environment, aging effect, and credited program. The attributes of the credited activity meet the intent of the corresponding GALL Chapter XI program (XI.M10) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of these activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														program.
RC1c	RC	Bolting Materials - Pipe and Valves (<2" diameter)	PB	Stainless Steel	Reactor Building	Stress Relaxation, Stress Corrosion Cracking (SCC), Wear	Loss of Mechanical Closure Integrity	In-Service Inspection (ISI) Plan	See Note A-RC1c-e.	IV.C2.4-g, IV.C2.4.3	T.1-26	No	Partial	GALL recommends a bolting integrity program be established. The bolting integrity program (XI.M18) uses elements of ASME Section XI for detection of aging effects. The program credited for managing the effects of aging, the "Inservice Inspection Plan", meets only the portions of GALL Program XI.M18, "Bolting Integrity", that apply to Class 1 bolting of less than 2 inch diameter. Therefore, this is a partial match. Except as noted, the AMR results for this component type are consistent with the GALL items which have a similar material, environment, aging effect/mechanism and credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC1c	RC	Bolting Materials - Pipe and Valves (<2" diameter)	PB	Alloy Steel	Reactor Building	Stress Relaxation, Stress Corrosion Cracking (SCC), Wear	Loss of Mechanical Closure Integrity	In-Service Inspection (ISI) Plan	See Notes A-RC1c-c, A-RC1c-j.	IV.C2.4-g, IV.C2.4.3	T.1-26	No	Partial	GALL recommends a bolting integrity program be established. The bolting integrity program (XI.M18) uses elements of ASME Section XI for detection of aging effects. The program credited for managing the effects of aging, the "Inservice Inspection Plan", meets only the portions of GALL Program XI.M18, "Bolting Integrity", that apply to Class 1 bolting of less than 2 inch diameter. Therefore, this is a partial match. Except as noted, the AMR results for this component type are consistent with the GALL items which have a similar material, environment, aging effect/mechanism and credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC1c	RC	Bolting Materials - Pipe and Valves (<2" diameter)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1c-k, A-RC1c-j.	IV.C2.4-f, IV.C2.4.3	T.1-38	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited program for this component type are consistent with the identified GALL item. The attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR000160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1c	RC	Elbows and Nozzles - Reactor Coolant Loop	PB	CASS	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program; In-Service Inspection	See Notes A-RC1c-a, A-RC1c-b, A-	IV.C2.1-e, IV.C2.1.1, IV.C2.1.2	T.1-13, N.1-05	Yes, plant specific	No	The material, environment, aging effects/mechanisms requiring management, and the credited program for this component

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC), Flaw Growth at Welds		(ISI) Plan	RC1c-g, A-RC1c-l.					type are consistent with the identified GALL item, as clarified, except that the GALL specifies plant specific evaluation. Certain aging effects/mechanisms (crevice and pitting corrosion) not addressed by the GALL are also managed by the credited program (Chemistry). Additionally, although not identified in GALL for CASS piping specifically, cracking due to flaw growth at welds has been identified in the GALL for stainless steel or SS clad Reactor Coolant components and also requires management for the CASS elbows and nozzles at VCSNS. Consistent with the GALL for stainless steel, the ISI Plan is credited with management of cracking due to flaw growth at welds in these CASS sub-components. The attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (XI.M2 and XI.M1 respectively) attributes for the Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1c	RC	Elbows and Nozzles - Reactor Coolant Loop	PB	CASS	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1c	RC	Orifices - Piping	PB, TH	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1c	RC	Orifices - Piping	PB, TH	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1c-a, A-RC1c-b, A-RC1c-g.	IV.C2.1-g, IV.C2.1.5	T.1-07, N.1-05	Yes, parameters monitored/inspected and detection of aging effects are to be evaluated.	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited programs for this component type are consistent with the identified GALL item, as clarified. The credited ISI Plan is focused on connections/junctures such as welds and thus on cracking due to flaw growth (referred to as Crack initiation and growth/cyclic and mechanical loading in GALL). The Chemistry program is credited for maintaining the conditions that could lead to SCC. In addition, certain aging effects not addressed by the GALL (crevice and pitting corrosion) for this component type are also

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														managed by the same program. The attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (XI.M2 and XI.M1 respectively) attributes for the Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1c	RC	Pipe - Reactor Coolant System	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1c-a, A-RC1c-b, A-RC1c-g.	IV.C2.1-c, IV.C2.1.1, IV.C2.1.2, IV.C2.1.3	T.1-36, N.1-05	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited programs for this component type are consistent with the identified GALL item, as clarified. The credited ISI Plan is focused on connections/junctures such as welds and thus on cracking due to flaw growth (referred to as Crack initiation and growth/cyclic and mechanical loading in GALL). The Chemistry program is credited for maintaining the conditions that could lead to SCC. In addition, certain aging effects not addressed by the GALL (crevice and pitting corrosion) for this component type are also managed by the same program. The attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (XI.M2 and XI.M1 respectively) attributes for the Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1c	RC	Pipe - Reactor Coolant System	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX. See Note A-RC1c-h.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1c	RC	Piping and Fittings - Connected systems	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1c	RC	Piping and Fittings - Connected systems	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1c-a, A-RC1c-b, A-RC1c-g.	IV.C2.2-f	T.1-36, N.1-05	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited programs for this component type are consistent with the identified GALL item, as clarified. Certain aging effects/mechanisms (crevice and pitting

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corrosion) not addressed by the GALL are also managed by one of the credited programs (Chemistry). Additionally, although not identified in GALL for connected system piping specifically, cracking due to flaw growth at welds (Cracking/cyclic and/or mechanical loading) has been identified in the GALL for stainless steel or SS clad Reactor Coolant components and also requires management for this component type at VCSNS. Consistent with the GALL for other stainless steel RCS components, the ISI Plan is credited with management of cracking due to flaw growth. The attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (XI.M2 and XI.M1 respectively) attributes for the Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1c	RC	Piping and Fittings - less than NPS 4"	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1c	RC	Piping and Fittings - less than NPS 4"	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program, In-Service Inspection (ISI) Plan, Small Bore Class 1 Piping Inspection	See Notes A-RC1c-a, A-RC1c-d, A-RC1c-g.	IV.C2.1-g, IV.C2.1.5	T.1-07, N.1-05	Yes, parameters monitored/inspected and detection of aging effects are to be evaluated	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited programs/activity for this component type are consistent with the identified GALL item, as clarified. The ISI Plan is focused on connections/junctures such as welds, and thus is credited for the management of cracking due to flaw growth (cracking /thermal and mechanical loading and thermal loading in GALL). This program is supplemented by the Small Bore Class 1 Piping Inspection activity to characterize the condition of the small bore piping (not normally inspected by ISI) and ensure that cracking has not occurred. The Chemistry program is credited for maintaining the conditions that could lead to SCC. In addition, certain aging effects not addressed by the GALL (crevice and pitting corrosion) for this component type are also managed by the same program. The attributes of the credited programs/activity meet the intent of the corresponding GALL Chapter XI program (XI.M1, XI.M2, XI.M32) attributes for the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs/activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1c	RC	Valves (Body Only) - Cast	PB	CASS	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1c	RC	Valves (Body Only) - Cast	PB	CASS	Borated Water	Thermal Aging	Reduction of Fracture Toughness	In-Service Inspection (ISI) Plan	See Notes A-RC1c-b, A-RC1c-g.	IV.C2.4-c, IV.C2.4.1	T.1-23	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited program for this component type are consistent with the identified GALL item. The attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1c	RC	Valves (Body Only) - Cast	PB	CASS	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1c-a, A-RC1c-b, A-RC1c-g, A-RC1c-l.	IV.C2.4-b, IV.C2.4.1	T.1-36, N.1-05	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited program for this component type are consistent with the identified GALL item, as clarified, Certain aging effects/mechanisms (crevice and pitting corrosion) not addressed by the GALL are also managed by the credited program (Chemistry). Additionally, although not identified in GALL for CASS piping, cracking due to flaw growth at welds has been identified in the GALL for stainless steel or SS clad Reactor Coolant components and also requires management for this component type at VCSNS. Similar to the related non-CASS specific GALL items, the ISI Plan is credited with management. The attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (XI.M2 and XI.M1 respectively) attributes for the Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1c	RC	Valves (Body only) - Forged	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion;	Loss of Material; Cracking	Chemistry Program; In-	See Notes A-RC1c-a, A-	IV.C2.4-b, IV.C2.4.1	T.1-36, N.1-05	No	Yes	The material, environment, aging effects/mechanisms requiring management,

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Stress Corrosion Cracking (SCC), Flaw Growth at Welds		Service Inspection (ISI) Plan	RC1c-b, A-RC1c-g.					and the credited programs for this component type are consistent with the identified GALL item, as clarified. The material of this component type is forged stainless steel, whereas the GALL only addresses CASS RCS valve bodies. Also, certain aging effects/mechanisms (crevice and pitting corrosion) not addressed by the GALL are also managed by one of the credited programs (Chemistry). Additionally, although not identified in GALL for valve bodies specifically, cracking due to flaw growth at welds has been identified in the GALL for stainless steel or SS clad Reactor Coolant components and also requires management for this component type (forged valve bodiers) at VCSNS. Similar to the related non-CASS specific GALL items, the ISI Plan is credited with management. The attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program (XI.M2 and XI.M1 respectively) attributes for the Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1c	RC	Valves (Body only) - Forged	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1d	RC	Bolting Materials - RCP Main Flange	PB	Alloy Steel	Reactor Building	Stress Relaxation, Stress Corrosion Cracking (SCC), Wear	Loss of Mechanical Closure Integrity	In-Service Inspection (ISI) Plan	See Notes A-RC1d-c, A-RC1d-k.	IV.C2.3-g, IV.C2.3.3	T.1-26	No	Partial	GALL recommends a bolting integrity program be established. The bolting integrity program (XI.M18) uses elements of ASME Section XI for detection of aging effects. The program credited for managing the effects of aging at VCSNS, the "In-Service Inspection (ISI) Plan", meets only the portions of GALL Program XI.M18, "Bolting Integrity", that apply to Class 1 bolting of less than 2 inch diameter. Therefore, this is a partial match. Except as noted, the AMR results for this component type are consistent with the GALL items which have a similar material, environment, aging effect/mechanism and credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
RC1d	RC	Bolting Materials - RCP Main Flange	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1d-e, A-RC1d-k.	IV.C2.3-f, IV.C2.3.3	T.1-38	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited program for this component type are consistent with the identified GALL item. The attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1d	RC	Flange - RCP Thermal Barrier	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	See Note A-RC1d-j. TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1d	RC	Flange - RCP Thermal Barrier	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1d-a, A-RC1d-g.	IV.C2.3-b, IV.C2.3.1	N.1-05, N.1-06	No	Partial	The material (stainless steel rather than CASS or cladding), environment, aging effects/mechanisms requiring management, and credited aging management program for this sub-component are consistent with the identified GALL item. However, the GALL item writeup is specific to CASS or stainless steel clad carbon steel for the RCP casing and no GALL item explicitly addresses the thermal barrier. In addition, certain aging effects/mechanisms not identified for this GALL item (crevice and pitting corrosion) require management at VCSNS and are managed by the same program. However, the credited program alone, rather than supplemented by Inservice Inspection as recommended by GALL, was determined to provide adequate management of the conditions that could result in the specified aging effects. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M2).
RC1d	RC	Flange - Thermal Barrier Piping	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	See Note A-RC1d-j. TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1d	RC	Flange - Thermal Barrier Piping	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1d-a, A-RC1d-h.	VII.C2.2-a, VII.C2.1.1	T.3-15	No	Partial	The AMR results for this sub-component are partially consistent with a GALL item for closed-cycle cooling component which has a

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC)								similar material, environment (although at a lower temperature), and aging effects requiring management, as clarified. The higher temperatures associated with the operation of this sub-component make it susceptible to SCC (not identified for the listed GALL item) as described in the appropriate note. However, the GALL recommends a Closed-Cycle Cooling Water System AMP. The Chemistry Program credited for management at VCSNS does not match (is not fully consistent with) all of the criteria in Chapter XI.M21 of the GALL. Therefore, this is a partial match. Additionally, the attributes of the credited program meet the intent of a GALL Chapter XI program (XI.M2) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC1d	RC	Main Closure Flange - RCP	PB	CASS	Reactor Building	None Identified	None Identified	None Required	See Note A-RC1d-j. TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1d	RC	Main Closure Flange - RCP	PB	CASS	Borated Water	Thermal Aging	Reduction of Fracture Toughness	In-Service Inspection (ISI) Plan	See Notes A-RC1d-b, A-RC1d-g.	IV.C2.3-c, IV.C2.3.1	T.1-23	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited program for this sub-component are consistent with the identified GALL item. The attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1d	RC	Main Closure Flange - RCP	PB	CASS	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1d-a, A-RC1d-g.	IV.C2.3-b, IV.C2.3.1	T.1-36, N.1-07	No	Yes	The material, environment, aging effects/mechanisms requiring management, and credited program for this sub-component are consistent with the identified GALL item. The attributes of the credited program meet the intent of the corresponding GALL Chapter XI program (XI.M2) attributes for the Reactor Coolant System and material selection is not credited. Additionally, certain aging effects not addressed by the GALL (crevice and pitting corrosion)are also managed by the credited program for this sub-component. Refer to TR00160-020 for a detailed discussion of the attributes of this program in

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1d	RC	RCP Thermal Barrier (including CVCS supply piping less than 4 inch)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at welds	Loss of Material; Cracking	Chemistry Program, In-Service Inspection (ISI) Plan, Small Bore Class 1 Piping Inspection	See Notes A-RC1d-a, A-RC1d-g. CVCS to thermal barrier (int/ext), CCW to thermal barrier (external).	IV.C2.2-h, IV.C2.2.8	T.1-07, N.1-05	Yes, parameters monitored/inspected and detection of aging effects are to be evaluated.	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited programs/activity for this component type are consistent with the identified GALL item, as clarified. The ISI Plan is focused on connections/junctures such as welds, and thus is credited for the management of cracking due to flaw growth (cracking/thermal and mechanical loading or thermal loading in GALL). This program is supplemented by the Small Bore Class 1 Piping Inspection activity to characterize the condition of the small bore piping from CVCS to the thermal barrier (not normally inspected by ISI) and ensure that cracking has not occurred. The Chemistry program is credited for maintaining the conditions that could lead to SCC. In addition, certain aging effects not addressed by the GALL (crevice and pitting corrosion) for this component type are also managed by the same program. The attributes of the credited programs/activity meet the intent of the corresponding GALL Chapter XI program (XI.M1, XI.M2, XI.M32) attributes for the Reactor Coolant System. Refer to TR00160-020 for a detailed discussion of the attributes of these programs/activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1d	RC	Piping/Tubing to RCP Thermal Barrier (less than NPS 4 inch)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1d-a, A-RC1d-h. CCW to thermal barrier (internal).	VII.C2.2-a, VII.C2.1.1	T.3-15	No	Partial	The AMR results for this sub-component are partially consistent with a GALL item for closed-cycle cooling component which has a similar material, environment (although at a lower temperature), and aging effects/mechanisms requiring management, as clarified. The higher temperatures associated with the operation of this sub-component make it susceptible to SCC (not identified for the listed GALL item) as described in the appropriate note. However, the GALL recommends a Closed-Cycle Cooling Water System AMP. The Chemistry Program credited for management at VCSNS does not match (is not fully consistent with) all of the criteria in Chapter XI.M21 of the GALL. Therefore, this is a partial match. Additionally, the attributes of the credited program meet the intent of a GALL Chapter

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														XI program (XI.M2) attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation.
RC1d	RC	Piping/Tubing - RCP Thermal Barrier (less than NPS 4 inch)	PB	Stainless Steel	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1d	RC	Pumps (Casing Only) (XPP0030A/B/C), RCP	PB	CASS	Borated Water	Thermal Aging	Reduction of Fracture Toughness	In-Service Inspection (ISI) Plan	See Notes A-RC1d-b, A-RC1d-g.	IV.C2.3-c, IV.C2.3.1	T.1-23	No	Yes	The material, environment, aging effects/mechanisms requiring management, and the credited program for this sub-component are consistent with the identified GALL item. The attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1d	RC	Pumps (Casing Only) (XPP0030A/B/C), RCP	PB	CASS	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX.	N/A	N.1-01	N/A	N/A	Chapter IV of the GALL does not evaluate external environments for this component type/material. For VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable reference.
RC1d	RC	Pumps (Casing Only) (XPP0030A/B/C), RCP	PB	CASS	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1d-a, A-RC1d-g.	IV.C2.3-b, IV.C2.3.1	T.1-36, N.1-07	No	Partial	The material, environment, aging effects/mechanisms requiring management, and credited program for this sub-component are consistent with the identified GALL item. However, the credited program alone, rather than being supplemented by Inservice Inspection or taking explicit credit for material selection as recommended by GALL, was determined to provide adequate management of the conditions that could result in the specified aging effects. The primary focus of ISI is on connections/junctures, such as welded joints, for Class 1 components and, therefore, this component is not applicable. The attributes of the credited program meet the intent of the corresponding GALL Chapter XI program (XI.M2) attributes for the Reactor Coolant System. Certain aging effects not addressed by the GALL (crevice and pitting corrosion)are also managed by the credited program for this sub-component. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1e	RC	Tank (XTK0024) - PZR Head (Lower)	PB	Alloy Steel - SA-533, Gr. A, Cl. 2	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack); Flaw Growth at Welds (cyclic loading)	Loss of Material; Cracking	Boric Acid Corrosion Surveillances; In-Service Inspection (ISI) Plan	See Notes A-RC1e-a, A-RC1e-b.	IV.C2.5-b, IV.C2.5.1; IV.C2.5-u, IV.C2.5.12; IV.C2.5-v, IV.C2.5.12	T.1-38, T.1-41	No	Yes	<p>The identified GALL items address boric acid corrosion of alloy steel Pressurizer external surfaces, including the integral support (IV.C2.5.12). Additionally, GALL item IV.C2.5-v addresses cracking of the integral support weld due to cyclic loading resulting in the growth of flaws at the support skirt/lower head interface.</p> <p>The material, environment, aging effect(s)/mechanism(s) requiring management, and the credited programs for this sub-component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, credited program. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of each program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M10 and XI.M1 respectively).</p>
RC1e	RC	Tank (XTK0024) - PZR Head (Lower)	PB	Stainless Steel Cladding - E308L &/or E309L	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds (cyclic loading)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	Cladding; See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-c, IV.C2.5.1	T.1-36, N.1-07	No	Yes	<p>The identified GALL item addresses crack initiation and growth for stainless steel Pressurizer shell/head cladding. The material, environment, aging effect(s)/mechanism(s) requiring management, and the credited programs for this sub-component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism and credited program. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the Chemistry program. Additionally, the attributes of the credited programs, as applied to Class 1 components, meet the intent of the corresponding GALL Chapter XI programs. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1 respectively).</p>
RC1e	RC	Tank (XTK0024) - PZR Head (Upper)	PB	Stainless Steel Cladding - E308L &/or	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program; In-Service Inspection	Cladding; See Notes A-RC1e-c, A-	IV.C2.5-c, IV.C2.5.1	T.1-36, N.1-07	No	Yes	<p>The identified GALL item addresses crack initiation and growth for stainless steel Pressurizer shell/head cladding. The material,</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
				E309L		Cracking (SCC), Flaw Growth at Welds (cyclic loading)		(ISI) Plan	RC1e-d					environment, aging effect(s)/mechanism(s) requiring management, and the credited programs for this sub-component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism and credited program. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the Chemistry program. Additionally, the attributes of the credited programs, as applied to Class 1 components, meet the intent of the corresponding GALL Chapter XI programs. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1 respectively)
RC1e	RC	Tank (XTK0024) - PZR Head (Upper)	PB	Alloy Steel - SA-533, Gr. A, Cl. 2	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1e-a, A-RC1e-b.	IV.C2.5-b, IV.C2.5.1	T.1-38	No	Yes	The identified GALL item addresses boric acid corrosion of alloy steel pressurizer external surfaces. The material, environment, aging effect(s)/mechanism(s) requiring management, and the credited activities for this component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, and credited program. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M10).
RC1e	RC	Tank (XTK0024) - PZR Immersion Heater Well Assemblies	PB	Stainless Steel - SA-182, Gr. F316	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX, WCAP-14574-A	N/A	N.1-01	N/A	N/A	The sub-component AMR result is for a material and environment combination that is not addressed in GALL Chapters IV, V, VII and VIII (GALL item V.C.1-b addresses the material and includes the environment, along ironment with the internal environment, however, the aging effects for this GALL item are focused on the internal environment effects). Also, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1e	RC	Tank (XTK0024) - PZR Immersion Heater Well Assemblies	PB	Stainless Steel - SA-182, Gr. F316	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-r, IV.C2.5.10	T.1-36, N.1-07	No	Partial	The identified GALL item addresses crack initiation and growth for austenitic stainless steel heater sheathes and sleeves. The

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
						Cracking (SCC)								material, environment, aging effect)/mechanism requiring management, and the credited program for this component are consistent with the identified GALL item, except as clarified. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the Chemistry program. While the GALL item specifies both Chemistry (XI.M2) and ISI (XI.M2) for management, VCSNS determined that the Chemistry Program provides adequate management of the conditions that could lead to the onset and propagation of cracks in the sub-componentets. Additionally, the attributes of the credited program, as it is applied to the environments to which Class 1 components are exposed, meets the intent of a GALL Chapter XI programs. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1e	RC	Tank (XTK0024) - PZR Manway Cover	PB	Stainless Steel Insert	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-m, IV.C2.5.8	N.1-07, N.1-11	No	Partial	The identified GALL item addresses crack initiation and growth for manway and flanges (stainless steel and/or nickel-based cladding). The material (stainless steel insert), environment, aging effect/mechanism requiring management, and the credited program for this sub-component are consistent with the identified GALL item, except as clarified. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the Chemistry program. While the GALL item specifies both Chemistry (XI.M2) and ISI (XI.M2) for management, VCSNS determined that the Chemistry Program provides adequate management of the conditions that could lead to the onset and propagation of cracks in the sub-component. Additionally, the attributes of the credited program, as it is applied to the environments to which Class 1 components are exposed, meets the intent of a GALL Chapter XI programs. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1e	RC	Tank (XTK0024) - PZR	PB	Alloy Steel -	Reactor	Boric Acid Corrosion	Loss of Material	Boric Acid	See Notes A-	IV.C2.5-o,	T.1-38	No	Yes	The material, environment, aqinq

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Manway Cover (& Bolts)		SA-533, Gr. B, Cl. 1	Building	(Aggressive Chemical Attack)		Corrosion Surveillances	RC1e-a, A-RC1e-b	IV.C2.5.8, IV.C2.5.9				effect(s)/mechanism(s) requiring management, and the credited activities for this sub-component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, and credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M10).
RC1e	RC	Tank (XTK0024) - PZR Manway Cover Bolts/Studs	PB	Alloy Steel - SA-193, Gr. B7	Reactor Building	Stress Relaxation, Loss of Preload, Stress Corrosion Cracking (SCC)	Loss of Mechanical Closure Integrity	In-Service Inspection (ISI) Plan	See Note A-RC1e-e	IV.C2.5-n, IV.C2.5-p, IV.C2.5.9	T.1-26	No	Partial	The identified GALL items address crack initiation and growth as well as loss of preload for high strength low alloy steel bolting. The sub-component AMR results are consistent with the identified GALL items in terms of material, environment and aging effect/mechanism requiring management. However, the "In-Service Inspection (ISI) Plan", which is credited for management of these aging effects, meets the intent of GALL program XI.M.18, "Bolting Integrity" as it applies to bolting of class 1 components. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation.
RC1e	RC	Tank (XTK0024) - PZR Nozzle & Manway Forgings	PB	Stainless Steel Cladding - E308L &/or E309L	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds (cyclic loading)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	Cladding; See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-g, IV.C2.5.2, IV.C2.5.3	T.1-36, N.1-07	No	Partial	The identified GALL item addresses crack initiation and growth for stainless spray and surge nozzle cladding. The material, environment, aging effect/mechanism requiring management, and the credited programs for this sub-component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism and credited program, except as clarified. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the "Chemistry program". Likewise, cracking due to flaw growth (cyclic loading), that is not addressed for the identified GALL item, is managed by the In-Service Inspection (ISI) Plan. Also, VCSNS determined that the Chemistry Program provides adequate management of the conditions that could result in stress corrosion cracking. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														programs (XI.M2 and XI.M1 respectively). Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1e	RC	Tank (XTK0024) - PZR Nozzle & Manway Forgings	PB	Alloy Steel - SA-508, Cl. 2	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1e-a, A-RC1e-b.	IV.C2.5-b, IV.C2.5.1	T.1-38	No	Yes	The material, environment, aging effect/mechanism requiring management, and the credited activities for this sub-component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M10).
RC1e	RC	Tank (XTK0024) - PZR Nozzle Safe Ends	PB	Stainless Steel - SA-182, Gr. F316L	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX, WCAP-14574-A	N/A	N.1-01	N/A	N/A	The sub-component AMR result is for a material and environment combination that is not addressed in GALL Chapters IV, V, VII and VIII (GALL item V.C.1-b addresses the material and includes the environment, along ironment with the internal environment, however, the aging effects for this GALL item are focused on the internal environment effects). Also, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1e	RC	Tank (XTK0024) - PZR Nozzle Safe Ends	PB	Stainless Steel - SA-182, Gr. F316L	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-h, IV.C2.5.7	T.1-36, N.1-07	No	Yes	The identified GALL item addresses crack initiation and growth for stainless steel safe ends. The material, environment, aging effect/mechanism requiring management, and the credited programs for this component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism and credited program. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the "Chemistry program". Additionally, the attributes of the credited programs meet the intent of the corresponding GALL Chapter XI programs (XI.M2 and XI.M1 respectively). Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														extended operation and in meeting the intent of the pertinent GALL programs.
RC1e	RC	Tank (XTK0024) - PZR Nozzle Thermal Sleeves	HT	Stainless Steel - SA-213&240, Type 304	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds (cyclic loading)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-g, IV.C2.5.2, IV.C2.5.3	T.1-36, N.1-07	No	Partial	The identified GALL item addresses crack initiation and growth for stainless steel spray and surge nozzles. The material, environment, aging effect/mechanism requiring management, and the credited programs for this sub-component (surge & spray nozzle thermal sleeves) AMR results are consistent with the identified GALL item, as clarified. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the "Chemistry program". Cracking due to flaw growth, which is not specified for the GALL item, is managed by the ISI Plan. However, the ISI Plan is not credited for management of SCC at VCSNS (Chemistry Program is), but the associated ISI actions serve as added confirmation of the effectiveness of chemistry control. Additionally, the attributes of the credited programs meet the intent of corresponding GALL Chapter XI programs (XI.M2 and XI.M1 respectively). Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1e	RC	Tank (XTK0024) - PZR Nozzle-Safe End Weld Metal	PB	Nickel-Based Alloy - Alloy 82/182 Buttering	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds (cyclic loading); Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan; Alloy 600 Aging Management Program	See Notes A-RC1e-f, A-RC1e-g	IV.C2.5-k, IV.C2.5.6	T.1-14, N.1-07	Yes, an AMP for PWSCC of Inconel 182 weld is to be evaluated.	No	The identified GALL item addresses alloy 600 instrument penetrations rather than inconel 82/182 weld metal. The sub-component AMR results are consistent with identified GALL item in material, environment, and aging effect/mechanism requiring management. Additionally, aging effects for stainless steel in the same environment (crevice & pitting corrosion, SCC) are conservatively managed for the nickel-based alloy weld metal. Also, the programs credited for management of these aging effects (not addressed for the GALL item) are consistent with corresponding GALL Chapter XI programs (XI.M2 and XI.M1 respectively). Also, the closest GALL chapter XI program, with regards to attributes for effective management, is XI.M11. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
RC1e	RC	Tank (XTK0024) - PZR Nozzle-Safe End Weld Metal	PB	Nickel-Based Alloy - Alloy 82/182 Weld Buttering	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX, WCAP-14574-A	N/A	N.1-02	N/A	N/A	The sub-component AMR result is for a material and environment combination that is not addressed in GALL Chapters IV, V, VII and VIII (GALL item V.C.1-b addresses a similar material (stainless steel) and includes the environment, along ironment with the internal environment, however, the aging effects for this GALL item are focused on the internal environment effects). Also, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1e	RC	Tank (XTK0024) - PZR Shell Barrel	PB	Alloy Steel - SA-533, Gr. A, Cl. 2	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1e-a, A-RC1e-b.	IV.C2.5-b, IV.C2.5.1	T.1-38	No	Yes	The identified GALL item addresses boric acid corrosion of alloy steel Pressurizer external surfaces. The material, environment, aging effect(s)/mechanism(s) requiring management, and the credited activities for this sub-component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism, credited program. Additionally, the attributes of the credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this program/activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M10).
RC1e	RC	Tank (XTK0024) - PZR Shell Barrel	PB	Stainless Steel Cladding - E308L &/or E309L	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds (cyclic loading)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	Cladding; See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-c, IV.C2.5.1	T.1-36, N.1-07	No	Yes	The identified GALL item addresses crack initiation and growth for stainless steel shell/head sub-components. The material, environment, aging effect/mechanism requiring management, and the credited programs for this component are consistent with the identified GALL item which has the same material, environment, aging effect/mechanism and credited programs. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the "Chemistry program". Cracking due to flaw growth, which is not specified for the GALL item, is managed by the ISI Plan. However, the ISI Plan is not credited for management of SCC at VCSNS (Chemistry Program is), but the associated ISI actions serve as added confirmation of the effectiveness of chemistry control. Additionally, the attributes of the credited programs meet the intent of corresponding GALL Chapter XI programs (XI.M2 and XI.M1

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														respectively). Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1e	RC	Tank (XTK0024) - PZR Tube Couplings (Instrument and Sample)	PB	Stainless Steel - SA-182, Gr. F316	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX, WCAP-14574-A	N/A	N.1-01	N/A	N/A	The sub-component AMR result is for a material and environment combination that is not addressed in GALL Chapters IV, V, VII and VIII (GALL item V.C.1-b addresses the material and includes the environment, along ironment with the internal environment, however, the aging effects for this GALL item are focused on the internal environment effects). Also, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1e	RC	Tank (XTK0024) - PZR Tube Couplings (Instrument and Sample)	PB	Stainless Steel - SA-182, Gr. F316	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-g, IV.C2.5.6	T.1-36, N.1-07	No	Partial	The identified GALL item addresses crack initiation and growth for instrument penetrations. The material, environment, aging effect/mechanism requiring management, and the credited program for this sub-component are consistent with the identified GALL item, except as clarified. Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the Chemistry program. While the GALL item specifies both Chemistry (XI.M2) and ISI (XI.M2) for management, VCSNS determined that the Chemistry Program provides adequate management of the conditions that could lead to the onset and propagation of cracks in the sub-component. Additionally, the attributes of the credited program, as it is applied to the environments to which Class 1 components are exposed, meets the intent of a GALL Chapter XI programs. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1e	RC	Tank (XTK0024) - PZR Tubing (Instrument and Sample Lines)	PB	Stainless Steel, SA-213, TP-316	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1e-c, A-RC1e-d	IV.C2.5-g, IV.C2.5.6	T.1-36, N.1-07	No	Partial	The identified GALL item addresses crack initiation and growth for instrument penetrations. The material, environment, aging effect/mechanism requiring management, and the credited program for this sub-component are consistent with the identified GALL item, except as clarified.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														Certain aging effects (e.g. loss of material due to crevice & pitting corrosion) not addressed by the GALL item are also managed by the Chemistry program. While the GALL item specifies both Chemistry (XI.M2) and ISI (XI.M2) for management, VCSNS determined that the Chemistry Program provides adequate management of the conditions that could lead to the onset and propagation of cracks in the sub-component. Additionally, the attributes of the credited program, as it is applied to the environments to which Class 1 components are exposed, meets the intent of a GALL Chapter XI programs. Refer to TR00160-020 for a detailed discussion of the attributes of these programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1e	RC	Tank (XTK0024) - PZR Tubing (Instrument and Sample Lines)	PB	Stainless Steel, SA-213, TP-316	Reactor Building	None Identified	None Identified	None Required	TR00160-010 Attachment XI, WCAP-14575-A	N/A	N.1-01	N/A	N/A	The sub-component AMR result is for a material and environment combination that is not addressed in GALL Chapters IV, V, VII and VIII (GALL item V.C.1-b addresses the material and includes the environment, along ironment with the internal environment, however, the aging effects for this GALL item are focused on the internal environment effects). Also, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1f	RC	Channel Head & Inlet/Outlet Nozzles (XSG0002A/B/C)	PB	Alloy Steel clad w/ Austenitic Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds	Loss of Material; Cracking (cladding)	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1f-c and A-RC1f-d.	IV.D1.1-i, IV.D1.1.9	T.1-44, N.1-07	No	Yes	GALL item IV.D1.1-i addresses stress corrosion cracking of the primary nozzles. The material, environment, aging effect/mechanism and credited programs are consistent with the identified GALL item, except as clarified. Certain aging mechanisms (crevice and pitting corrosion and flaw growth) not addressed by the GALL item are also managed by the credited programs. Also, the Inconel buttering and weld material are addressed with a separate VCSNS AMR result. Although the GALL item only specifies the nozzles, the channel head is considered susceptible to the same aging effects at VCSNS. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL chapter XI programs (XI.M2 and XI.M1 respectively) attributes, as the programs are applied to Class 1 components. Refer to TR00160-020 for a detailed discussion of the attributes of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1f	RC	Channel Head & Inlet/Outlet Nozzles (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g, IV.D1.1.8	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1f	RC	Channel Head Divider Plate (XSG0002A/B/C)	PB	Nickel-Based Alloy (Alloy 690 TT)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds, Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking (cladding)	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1-e and A-RC1f-f.	IV.D1.1-i, IV.D1.1.9	T.1-44, N.1-07	No	Yes	GALL item IV.D1.1-i addresses stress corrosion cracking of the primary nozzles. The material, environment, aging effect/mechanism and credited programs are consistent with the identified GALL item, except as clarified. Certain aging mechanisms (crevice and pitting corrosion and flaw growth) not addressed by the GALL item are also managed by the credited programs. Also, the Alloy 690 TT divider plate is not considered susceptible to PWSCC and the Inconel 82/182 welds attaching the plate to the tubeplate and channel head have Inconel 152 final layers that preclude contact with primary water. However, the ISI Plan will address PWSCC should it become evident in the Alloy 690 TT/ Inconel 152. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL chapter XI programs (XI.M2 and XI.M1 respectively) attributes, as the programs are applied to Class 1 components. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1f	RC	Closure Bolting (Primary and Secondary Side)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a, A-RC1f-b.	IV.D1.1-k	T.1-38	No	Yes	GALL item IV.D1.1-k addresses loss of material due to boric acid corrosion of primary bolting (IV.D1.1.11). The sub-component AMR result is consistent with the identified item with respect to material, environment, aging effects requiring management, and

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														credited aging management programs/activities. However, the activities credited to address boric acid corrosion at VCSNS include both primary and secondary bolting. The attributes of the credited activities meet the intent of a corresponding GALL chapter XI program (XI.M10) attributes, as the activities are applied to Class 1 components and Class 2 steam generator sub-components. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation.
RC1f	RC	Closure Bolting (Primary and Secondary Side)	PB	Alloy Steel	Reactor Building	Loss of Preload, Stress Corrosion Cracking (SCC)	Loss of Mechanical Closure Integrity	In-Service Inspection (ISI) Plan	See Notes A-RC1f-a, A-RC1f-b.	IV.D1.1-f, IV.D1.1-l	T.1-26	No	Partial	<p>GALL item IV.D1.1-f and IV.D1.1.l address loss of preload due to stress relaxation of the secondary side bolting (IV.D1.1.7) and cracking due to stress corrosion cracking of primary bolting (IV.D1.1.11) as a result of boric acid exposure respectively. The sub-component AMR result is consistent with the identified GALL items with respect to material, environment, aging effects requiring management as clarified, and credited aging management program as clarified. The aging effects that the GALL items refer to (loss of preload / crack initiation and growth) are considered "loss of mechanical closure integrity" at VCSNS. However, the corresponding mechanisms that the GALL items refer to are considered to result in the above aging effect at VCSNS. Additionally, while the GALL items differentiate between secondary side bolting (loss of preload) and primary side bolting (cracking), VCSNS conservatively considered all Steam Generator closure bolting to be susceptible to both mechanisms. Furthermore, SCC is only applicable to high strength bolts (yield strengths > 150ksi). SA-193 and 194 closure material utilized at VCSNS typically has a yield strength of 105 ksi and is not strictly high strength. However, the ISI Plan, as it applies to Steam Generator closure bolting, rather than a separate "Bolting Integrity" program as specified by the GALL items (IV.D1.1-f and IV.D1.1-l), is credited for management of both loss of preload and SCC in primary and secondary side closure material.</p> <p>The attributes of the credited program meet the intent of a corresponding GALL chapter</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														XI program (XI.M1) attributes, as the programs are applied to Class 1 components and pertinent Steam Generator sub-components. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation.
RC1f	RC	External Support Attachments - Lifting Lugs, Support Pads, Barrel Trunnions (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1f	RC	Feedwater Distribution Pipe & Fittings (XSG0002A/B/C)	PB, TH	Alloy Steel (Chrome-Moly)/Nickel-Based Alloy	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1f-g and A-RC1f-j.	IV.D1.1-d; IV.D1.1-e, IV.D1.3-a	N.1-10	No; Yes, Plant specific	No	Although GALL item IV.D1.1-d does address flow-accelerated corrosion of the steam and feedwater nozzle and safe end (IV.D1.1.2 and IV.D1.1.5 respectively) while IV.D1.1-e addresses erosion of the feedwater impingement plate and support (IV.D1.1.6), the material for both of these GALL items is carbon steel. Also, GALL item IV.D1.3-a addressed flow-accelerated corrosion of feedwater inlet rings in CE system 80 generators (also carbon steel). As described in the applicable note, the chrome-moly alloy steel is not a low-alloy steel (but is closer to a stainless steel). As such, the distribution pipe and fittings in the Delta-75 SGs are resistant to both erosion and erosion/corrosion. However, the sub-component is considered susceptible to the same aging effects as other stainless steels exposed to treated water/steam. Therefore, the Chemistry Program is credited for the management of the conditions leading to the onset and propagation of these effects. Additionally, the attributes of the Chemistry Program, as it is applied to the secondary side steam generator environment, are consistent with the attributes of a program evaluated in GALL Chapter XI (XI.M2). Refer to TR00160-020 for a detailed discussion of the attributes of this program in managing

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														aging during the period of extended operation.
RC1f	RC	Manway Covers - Primary Side (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-k, IV.D1.1.11	T.1-38	No	Yes	GALL Item IV.D1.1-k addresses boric acid corrosion on the external surface of the primary manway cover. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1f	RC	Manway Covers Insert Plates - Primary Side (XSG0002A/B/C)	PB	Stainless Steel	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1f-g and A-RC1f-h.	IV.D1.1-i	N.1-07, N.1-11	No	Partial	GALL item IV.D1.1-i (referred to herein as IV.D1.1-ii) addresses stress corrosion cracking of the primary nozzles/safe ends. The material, environment, aging effect/mechanism and credited programs are consistent with the identified GALL item, except as clarified. Certain aging mechanisms (crevice and pitting corrosion) not addressed by the GALL item are also managed by the credited program. However, VCSNS determined that the Chemistry Program was sufficient for management of the manway cover insert, which is not specifically addressed in the GALL. Also, the cover insert plates are not susceptible to PWSCC, which is specified for the GALL item along with nickel based material (in addition to stainless steel), and the ISI program is not required for management of aging of the sub-component. Additionally, the attribute of the credited program meets the intent of the corresponding GALL chapter XI program (XI.M2) attributes, as applied to Class 1 components. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1f	RC	Manway, Handhole, Sludge Collector Opening & Inspection Port Covers - Secondary Side (XSG0002A/B/C)	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Note A-RC1f-ii and A-RC1f-j	IV.D1.1-c, IV.D1.1.3	N.1-03	Yes, detection of aging effects is to be evaluated	Partial	GALL item IV.D1.1-c addresses corrosion of the upper and lower shells and transition cone, to which the sub-components are attached at VCSNS. The material, environment, and aging effect/mechanisms for this sub-component AMR result are

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														consistent with the identified GALL item. However, VCSNS determined that the Chemistry Program provides adequate management for the secondary side covers, which are not specifically addressed in GALL chapter IV. IN 90-04, which is referenced for the GALL item as the basis for enhanced detection of aging effects in the shell, addressed flaw growth at welds due to service loading. The IN contains only general indication that pits on the surface may have served as crack initiation sites, and not that pitting corrosion resulted in sufficient degradation to cause loss of component function. Cracking due to flaw growth is managed for applicable sub-components at VCSNS. Refer to TR00160-020 for a detailed discussion of the effectiveness of the credited program in managing aging during the period of extended operation and in meeting the intent of a GALL chapter XI program (XI.M2).
RC1f	RC	Manway, Handhole, Sludge Collector Opening & Inspection Port Covers - Secondary Side (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1f	RC	Manways, Handholes, Sludge Collector Opening & Inspection Ports - Secondary Side (XSG0002A/B/C)	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion; Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1f-ii and A-RC1f-j.	IV.D1.1-c, IV.D1.1.3	N.1-03	Yes, detection of aging effects is to be evaluated	Partial	GALL item IV.D1.1-c addresses corrosion of the upper and lower shells and transition cone, of which the sub-components are integral at VCSNS. The material, environment, aging effect/mechanisms, and credited aging management programs for this sub-component AMR result are consistent with the identified GALL item, except as clarified. IN 90-04, which is referenced for the GALL item as the basis for enhanced detection of aging effects in the shell, addressed flaw growth at girth welds due to service loading. The IN contains only general indication that pits on the surface served as crack initiation sites, and not that pitting corrosion resulted in sufficient degradation to cause loss of component function. No

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														subsequent industry experience has further identified pitting corrosion resulting in reportable indications for the shell. Cracking due to flaw growth is managed at VCSNS by the ISI Plan. Refer to TR00160-020 for a detailed discussion of the effectiveness of the credited programs in managing aging during the period of extended operation and in meeting the intent of a GALL chapter XI programs (XI.M2 and XI.M1 respectively).
RC1f	RC	Manways, Handholes, Sludge Collector Opening & Inspection Ports - Secondary Side (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program
RC1f	RC	Nozzle - Inlet/Outlet - Closure Ring & Weld Metal (XSG0002A/B/C)	PB	Nickel-Based (Alloy 690 TT w/ Alloy 600 butter)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds, Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1-e and A-RC1f-f.	IV.D1.1-i, IV.D1.1.9	T.1-44, N.1-07	No	Partial	GALL item IV.D1.1-i addresses stress corrosion cracking of the primary nozzles. The material, environment, aging effect/mechanism and credited programs are consistent with the identified GALL item, except as clarified. Certain aging mechanisms (crevice and pitting corrosion and flaw growth) not addressed by the GALL item are also managed by the credited programs. Also, the Alloy 690 TT closure ring is not of a material that is considered to be susceptible to PWSCC while the Inconel 82/182 welds attaching the rings to the nozzles have Inconel 152 final layers that preclude contact with primary water. However, the ISI Plan will manage PWSCC in the event that the materials begin to evidence susceptibility during the period of extended operation. Additionally, the attributes of the credited programs meet the intent of the corresponding GALL chapter XI programs (XI.M2 and XI.M1 respectively) attributes, as the programs are applied to Class 1 components. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL programs.
RC1f	RC	Nozzle - Secondary Side Auxiliary Feedwater (XSG0002A/B/C)	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion; Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1f-ii and A-RC1f-j.	IV.D1.1-c, IV.D1.1.3	N.1-03	Yes, detection of aging effects is to be evaluated.	Partial	GALL item IV.D1.1-c addresses corrosion of the upper and lower shells and transition cone, to which the sub-components are integral at VCSNS. The material, environment, aging effect/mechanisms, and credited aging management programs for this sub-component AMR result are consistent with the identified GALL item, except as clarified. However, VCSNS determined that the Chemistry Program provides adequate management for the secondary side nozzles, from general, crevice and pitting corrosion. Also, cracking as the result of flaw growth is an aging effect/mechanism that is managed at VCSNS by the ISI plan. IN 90-04, which is referenced for the GALL item as the basis for enhanced detection of aging effects in the shell, addressed flaw growth at girth welds due to service loading. The IN contains only general indication that pits on the surface served as crack initiation sites, and not that pitting corrosion resulted in sufficient degradation to cause loss of component function. No subsequent industry experience has further identified pitting corrosion resulting in reportable indications for the shell. Cracking due to flaw growth is managed at VCSNS by the ISI Plan. Refer to TR00160-020 for a detailed discussion of the effectiveness of the credited programs in managing aging during the period of extended operation and in meeting the intent of a GALL chapter XI programs (XI.M2 and XI.M1 respectively).
RC1f	RC	Nozzle - Secondary Side Auxiliary Feedwater/Feedwater (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1f	RC	Nozzle - Secondary Side Feedwater	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion,	Loss of Material; Cracking	Chemistry Program; In-	See Notes A-RC1f-ii and A-	IV.D1.1-d, IV.D1.1.5	N.1-03	No	No	GALL item IV.D1.1-d addresses flow-accelerated corrosion of the Feedwater

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		(XSG0002A/B/C)				Pitting Corrosion; Flaw Growth at Welds		Service Inspection (ISI) Plan	RC1f-j.					Nozzle. The sub-component AMR result is consistent with the identified GALL item with regard to material and environment, but not in aging effect(s)/mechanism(s) requiring management or in credited program. Also, the nickel-based thermal sleeve (discussed separately below) that is installed in the nozzle precludes adverse impacts to the nozzle due to flow-accelerated corrosion. Furthermore, GALL item IV.D1.1-c addresses corrosion of the upper and lower shells. At VCSNS, the feedwater nozzle is integral to the shell and susceptible to the same aging mechanisms (general, pitting, and crevice corrosion). Cracking due to flaw growth is an aging effect that is not addressed for the identified GALL item (IV.D1.1-c), but is managed at VCSNS by the ISI plan. Refer to TR00160-020 for a detailed discussion of the attributes of these credited programs in managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1 respectively).
RC1f	RC	Nozzle Safe Ends - Primary Side (XSG0002A/B/C)	PB	Stainless Steel w/ Nickel-Based weld material	Reactor Building	None Identified	None Identified	None Required	TR00160-010, Attachment IX and WCAP-14757	N/A	N.1-02	N/A	N/A	The material/enviroment combination for this sub-component is not addressed for any GALL item in chapters IV, V, VII, or VIII. Also no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC1f	RC	Nozzle Safe Ends - Primary Side(XSG0002A/B/C)	PB	Stainless Steel w/ Nickel-Based weld material	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds, Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1f-e, A-RC1f-f, A-RC1f-g and A-RC1f-h	IV.D1.1-i, IV.D1.1.9	T.1-44, N.1-07	No	Yes	GALL item IV.D1.1-i addresses stress corrosion cracking of the primary nozzles/safe ends. The material, environment, aging effect/mechanisms and credited programs are consistent with the identified GALL item, as clarified. Certain aging mechanisms (crevice and pitting corrosion and flaw growth) not addressed by the GALL item are also managed by the credited program/programs. Additionally, the attribute of the credited program meets the intent of the corresponding GALL chapter XI programs (XI.M2 and XI.M1 respectively) attributes, as applied to Class 1 components. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs.
RC1f	RC	Nozzle Thermal Sleeve - Secondary Side Auxiliary	HT	Nickel-Based Alloy (Alloy 690	Treated Water	Crevice Corrosion, Pitting Corrosion;	Loss of Material; Cracking	Chemistry Program; In-	Sleeve and attachment	IV.D1.2-b	N.1-08, N.1-09	Yes, effectiveness of the AMP is to be	Partial	GALL item IV.D1.2-b addresses cracking of Alloy 600 tubes and sleeves. The sub-

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
		Feedwater (XSG0002A/B/C)		TT)		Stress Corrosion Cracking (SCC); Flaw Growth at Welds		Service Inspection (ISI) Plan	cladding; See Notes A-RC1f-k and A-RC1f-l.			evaluated		component AMR results are consistent with the identified GALL item in material (no listing of Alloy 690), environment, and aging effect requiring management (stress corrosion cracking). Certain aging effects not addressed for this GALL item are also managed by the credited programs (crevice and pitting corrosion and flaw growth). Additionally, the credited programs, as they are applied to Class 1 components, are consistent with GALL Chapter IX programs (XI.M2 and XI.M1 respectively), whereas the GALL item identifies programs that are focused on the tubes instead of secondary side thermal sleeves. As such, the GALL recommendation for effectiveness verification is not applicable to the secondary side nozzle thermal sleeves. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1).
RC1f	RC	Nozzle Thermal Sleeve - Secondary Side Feedwater (XSG0002A/B/C)	HT	Nickel-Based Alloy (Alloy 690 TT)	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	Sleeve and attachment cladding; See Notes A-RC1f-k and A-RC1f-l.	IV.D1.2-b	N.1-08, N.1-09	Yes, effectiveness of the AMP is to be evaluated	Partial	GALL item IV.D1.2-b addresses cracking of Alloy 600 tubes and sleeves. The sub-component AMR results are consistent with the identified GALL item in material (no listing of Alloy 690), environment, and aging effect requiring management (stress corrosion cracking). Certain aging effects not addressed for this GALL item are also managed by the credited programs (crevice and pitting corrosion and flaw growth). Additionally, the credited programs, as they are applied to Class 1 components, are consistent with GALL Chapter IX programs (XI.M2 and XI.M1 respectively), whereas the GALL item identifies programs that are focused on the tubes instead of secondary side thermal sleeves. As such, the GALL recommendation for effectiveness verification is not applicable to the secondary side nozzle thermal sleeves. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1).
RC1f	RC	Shell - Upper and Lower Barrel, Transition Cone, Elliptical Head (XSG0002A/B/C)	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion; Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	See Notes A-RC1f-ii and A-RC1f-j.	IV.D1.1-c, IV.D1.1.3, IV.D1.1.4	T.1-02	Yes, detection of aging effects is to be evaluated.	Partial	IV.D1.1-c address corrosion of the upper and lower shell and the transition cone. The sub-component AMR results are consistent with the identified GALL item with regards to material, environment, aging effects requiring

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management, and credited programs, except as clarified. Certain aging effects (cracking due to flaw growth) not specified for the identified GALL item are managed by the credited programs. IN 90-04, which is referenced for the GALL item as the basis for enhanced detection of aging effects in the shell, addressed flaw growth at girth welds due to service loading. The IN contains only general indication that pits on the surface served as crack initiation sites, and not that pitting corrosion resulted in sufficient degradation to cause loss of component function. No subsequent industry experience has further identified pitting corrosion resulting in reportable indications for the shell. Cracking due to flaw growth is managed at VCSNS by the ISI Plan. Refer to TR00160-020 for a detailed discussion of the effectiveness of the credited programs in managing aging during the period of extended operation and in meeting the intent of a GALL chapter XI programs (XI.M2 and XI.M1 respectively).
RC1f	RC	Shell - Upper and Lower Barrel, Transition Cone, Elliptical Head (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g, IV.D1.1.8	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program
RC1f	RC	Steam Outlet Nozzle (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														intent of the pertinent GALL program.
RC1f	RC	Steam Outlet Nozzle Flow Limiter (XSG0002A/B/C)	PB, TH	Nickel-Based Alloy (Alloy 690 TT)	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC); Flaw Growth at Welds	Loss of Material; Cracking	Chemistry Program; In-Service Inspection (ISI) Plan	Both Flow limiter and connecting weld metal; See Notes A-RC1f-k and A-RC1f-l.	IV.D1.2-b	N.1-08, N.1-09	Yes, effectiveness of AMP is to be evaluated	Partial	GALL item IV.D1.2-b addresses cracking of Alloy 600 tubes and sleeves. The sub-component AMR results are consistent with the identified GALL item in material (no listing of Alloy 690), environment, and aging effect requiring management (stress corrosion cracking). Certain aging effects not addressed for this GALL item are also managed by the credited programs (crevice and pitting corrosion and flaw growth). Additionally, the credited programs, as they are applied to Class 1 components, are consistent with GALL Chapter IX programs (XI.M2 and XI.M1 respectively), whereas the GALL item identifies programs that are focused on the tubes instead of secondary side outlet nozzles. As such, the GALL recommendation for effectiveness verification is not applicable to the secondary side outlet nozzle. Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs (XI.M2 and XI.M1).
RC1f	RC	Taps - Blowdown, Drain, Level, Sample, Wet Layup (Plugged) (XSG0002A/B/C)	PB	Alloy Steel	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Notes A-RC1f-ii, A-RC1f-j.	IV.D1.1-c, IV.D1.1.3, IV.D1.1.4	N.1-03	Yes, detection of aging effects is to be evaluated.	Partial	GALL item IV.D1.1-c addresses corrosion of the upper and lower shell and the transition cone, of which the specified taps are integral. The sub-component AMR results are consistent with the identified GALL item with regards to material, environment, and aging effect requiring management as clarified. The GALL item specifies both Water Chemistry and Inservice Inspection. VCSNS determined that the Chemistry Program provides adequate management of the conditions in the taps. IN 90-04, which is referenced for the GALL item as the basis for enhanced detection of aging effects in the shell, addressed flaw growth at girth welds due to service loading. The IN contains only general indication that pits on the inner surface served as crack initiation sites, and not that pitting corrosion resulted in sufficient degradation to cause loss of component function. No subsequent industry experience has further identified pitting corrosion resulting in reportable indications for the shell, specifically in the vicinity of small taps. Refer to TR00160-020 for a detailed discussion of the attributes and effectiveness of the credited program in managing aging

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M2).
RC1f	RC	Taps - Blowdown, Drain, Level, Sample, Wet Layup (Plugged) (XSG0002A/B/C)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head, but other portions of the Steam Generator were conservatively considered to be susceptible to boric acid accumulation. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program
RC1f	RC	Tube Bundle Wrapper, Wrapper Support and Downcomer - Secondary Side (XSG0002A/B/C)	Support	Carbon Steel/Nickel-Based Alloy	Treated Water	Crevice Corrosion, General Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC) (nickel-based only)	Loss of Material; Cracking	Chemistry Program	see Notes A-RC1f-ii and A-RC1f-j.	IV.D1.1-c	N.1-03, N.1-13	Yes, detection of aging effects is to be evaluated	Partial	GALL item IV.D1.1-c addresses corrosion of the shell and transition cone. The GALL item provides the closest relation to the sub-component AMR results with regard to material, environment, and aging effect/mechanisms requiring management, as clarified. GALL item IV.D1.2-h (IV.D1.2.2) addresses tube supports and corresponds with regard to material and environment, but differs with respect to aging mechanism. Also, an aging effect (SCC of nickel-based portions) not addressed by the GALL item are also managed by the credited program. Additionally, IN 90-04, which is referenced for the GALL item as the basis for enhanced detection of aging effects in the shell, addressed flaw growth at girth welds due to service loading. The IN contains only general indication that pits on the surface served as crack initiation sites, and not that pitting corrosion resulted in sufficient degradation to cause loss of component function. Lastly, the tube bundle wrapper support portions of the Steam Generators are not strictly necessary for the Steam Generator(s) to perform the required function of pressure boundary, throttling or heat transfer. The wrapper support portions were, however, conservatively subjected to AMR. As such, the credited program was determined to provide sufficient aging management for the sub-component, that is to provide adequate

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														management of the conditions that could result in internal support dedgradation. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation and in meeting the intent of a GALL Chapter XI program (XI.M2).
RC1f	RC	Tube Support Plates - Plates, AVBs, Flow Distribution Baffle - Secondary Side (XSG0002A/B/C)	Support	Stainless Steel / Nickel Based Tips&Rings	Treated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program	See Notes A-RC1f-m and A-RC1f-n.	VII.C2.2-a	N.1-13	No	Partial	GALL Chapters IV and VIII (Reactor Coolant and Steam & Power Conversion) do not include an item(s) with a stainless steel (or nickel-based) and treated water combination. GALL item VII.C2.2-a addresses crevice/pitting corrosion of stainless steel valves in treated water. Except as noted, the AMR results for this sub-component are consistent with the identified GALL item which have a similar material, environment, and aging effect/mechanism requiring management. Certain aging effects not addressed by the GALL item are also managed by the credited program. The GALL recommends a Closed-Cycle Cooling Water System AMP for the identified item. The Chemistry Program credited for VCSNS does not match all of the criteria in Chapter XI.M21 of the GALL, but is consistent with GALL program XI.M2 as it affects this sub-component. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program (XI.M2).
RC1f	RC	Tubeplate - Secondary Side (XSG0002A/B/C-RC)	PB	Alloy Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Notes A-RC1f-ii and A-RC1f-j	IV.D1.1-c	N.1-03	Yes, detection of aging effects is to be evaluated	Partial	GALL item IV.D1.1-c addresses corrosion of the upper and lower shells and transition cone. The tubeplate (secondary side) is connected to the lower shell. The material, environment, and aging effect requiring management for this sub-component are consistent with the identified GALL item. However, VCSNS determined that the Chemistry Program provides adequate management for the secondary side of the tubeplate, which is not specifically addressed in GALL chapter IV. IN 90-04, which is referenced for the GALL item as the basis for enhanced detection of aging effects in the shell, addressed flaw growth at girth welds due to service loading. The IN contains only general indication that pits on the surface served as crack initiation sites, and not that pitting corrosion resulted in sufficient degradation to cause loss of component

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														function. No subsequent industry experience has further identified pitting corrosion resulting in reportable indications for the shell. Refer to TR00160-020 for a detailed discussion of the effectiveness of the credited program in managing aging during the period of extended operation and in meeting the intent of a GALL chapter XI program (XI.M2)
RC1f	RC	Tubeplate - Primary Side (XSG0002A/B/C-RC)	PB	Alloy Steel clad w/ Nickel-Based weld (82/182)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Flaw Growth at Welds, Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material, Cracking (cladding)	Chemistry Program; In-Service Inspection (ISI) Plan; Alloy 600 Aging Management Program	See Notes A-RC1f-e and A-RC1f-f.	IV.D1.1-i	T.1-44, N.1-07	No	Partial	GALL item IV.D1.1-i addresses stress corrosion cracking of the primary nozzles/safe ends and is the closest match to the identified sub-component. The material, environment, aging effect/mechanisms requiring management and credited programs are consistent with the identified GALL item, except as indicated. Certain aging mechanisms (crevice and pitting corrosion and flaw growth) not addressed by the GALL item are also managed by the credited program/programs. The Alloy 600 Aging Management Program is credited to manage the PWSCC of the Inconel 82/182 cladding rather than the combination of Chemistry and ISI, as specified for the GALL item. The attribute of the credited programs meet the intent of the corresponding GALL chapter XI programs (XI.M2 and XI.M1 respectively) attributes, as applied to Class 1 components. Also, the "Alloy 600 Aging Management Program" is a plant specific program, with the closest corresponding GALL chapter XI program being "Nickel-Alloy Nozzles and Penetrations (XI.M11). Refer to TR00160-020 for a detailed discussion of the attributes of the credited programs in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL programs, as applicable.
RC1f	RC	Tubeplate (XSG0002A/B/C-RC)	PB	Alloy Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Notes A-RC1f-a and A-RC1f-b.	IV.D1.1-g	T.1-38	No	Yes	GALL Item IV.D1.1-g addresses boric acid corrosion on the external surface of the steam generator lower head, to which the tubeplate (primary side) is attached. The tubeplate is roughly 29 inches thick [1MS-07-365]. The outer circumference of the tubeplate is open to the ambient conditions in the vicinity of each Steam Generator. The material, environment, aging effect requiring management and the credited activities for this sub-component are consistent with the identified GALL item. Additionally, the attributes of the credited activities meet the intent of the corresponding GALL Chapter XI program (XI.M10) program attributes. Refer

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														to TR00160-020 for a detailed discussion of the attributes of the credited activities in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
RC1f	RC	Tubes - Secondary Side (XSG0002A/B/C-RC)	PB, HT	Nickel-Based Alloy (Alloy 690 TT)	Treated Water	Crevice Corrosion, Pitting Corrosion, Wear (Fretting); Stress Corrosion Cracking (SCC)	Loss of Material; Cracking	Chemistry Program; Steam Generator Management Program	See Notes A-RC1f-k and A-RC1f-l.	IV.D1.2-b, IV.D1.2-c, IV.D1.2.1	T.1-18	Yes, effectiveness of the AMP is to be evaluated.	Yes	Items IV.D1.2-b, and IV.D1.2-c and IV.D1.2-e address secondary side ODSCC, Intergranular Attack, and Fretting of the tube external surfaces respectively, rather than listing multiple aging mechanisms for a single GALL item even though the specified program and recommendations (as well as component, material, and environment) are the same for each item. The material, environment, aging effects/mechanisms, and credited programs for this sub-component are consistent with the identified GALL items combined. Additionally, certain aging mechanisms (crevice and pitting corrosion) not addressed by the GALL items are also managed by the credited programs. The identified GALL items indicate that program effectiveness is to be evaluated and that SG degradation management is to be incorporated in the plant technical specifications. Refer to TR00160-020 for a detailed discussion of the credited programs, particularly for the "Steam Generator Management Program" based on NEI 97-06 as incorporated into the Technical Specifications, in effectively managing aging during the period of extended operation and of meeting the intent of the pertinent GALL programs (XI.M2 and XI.M19).
RC1f	RC	Tubes/Plugs - Primary Side (XSG0002A/B/C)	PB, HT	Nickel-Based Alloy (Alloy 690 TT)	Borated Water	Crevice Corrosion, Pitting Corrosion; Stress Corrosion Cracking (SCC), Primary Water Stress Corrosion Cracking (PWSCC)	Loss of Material; Cracking	Chemistry Program; Steam Generator Management Program	See Notes A-RC1f-e and A-RC1f-f.	IV.D1.2-a, IV.D1.2.1, IV.D1.2-i, IV.D1.2.3	T.1-18	Yes, effectiveness of the AMP is to be evaluated	Yes	GALL items IV.D1.2-a and IV.D1.2-i address primary water stress corrosion cracking of the tubes (IV.D1.2.1) and tube plugs (IV.D1.2.3) respectively. The material, environment, aging effect/mechanism requiring management, and credited programs for this sub-component are consistent with the identified GALL items, as clarified. The identified GALL items indicate that program effectiveness is to be evaluated and that SG degradation management is to be incorporated in the plant technical specifications. Additionally, certain aging mechanisms (crevice and pitting corrosion) not addressed by the GALL items are also managed by the credited programs. Refer to TR00160-020 for a detailed discussion of the credited programs, particularly for the "Steam Generator Management Program" based on

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														NEI 97-06 as incorporated into the Technical Specifications, in effectively managing aging during the period of extended operation and of meeting the intent of the pertinent GALL programs (XI.M19 and XI.M2).
SI	SI	Pipe and Fittings	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SI-j See Note A-SI-k	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SI	SI	Pipe and Fittings	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SI-j See Note A-SI-k	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Pipe and Fittings	PB	Carbon Steel	Reactor Building	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SI-e See Note A-SI-f	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SI	SI	Pipe and Fittings	PB	Carbon Steel	Reactor Building	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SI-e See Note A-SI-f	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item which has the same material, environment, aging effect and credited program. Additionally, the attributes of this program meet the intent of the

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Valves (Body Only)	PB	Carbon Steel	Sheltered	General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-SI-j See Note A-SI-k	V.E.1-b, V.E.1.1	T.2-10	Yes, plant specific	No	V.E.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
SI	SI	Valves (Body Only)	PB	Carbon Steel	Sheltered	Boric Acid Corrosion (Aggressive Chemical Attack)	Loss of Material	Boric Acid Corrosion Surveillances	See Note A-SI-j See Note A-SI-k	V.E.1-a, V.E.1.1	T.2-17	No	Yes	V.E.1-a addresses external surfaces of carbon steel components. The material, environment, aging effect requiring management and credited program for this component/component type are consistent with the identified GALL item, which has the same material, environment, aging effect and credited program. Additionally, the attributes of this credited program meet the intent of the corresponding GALL Chapter XI program attributes. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation and in meeting the intent of the pertinent GALL program.
SI	SI	Pipe and Fittings	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-SI-g	N/A	N.2-02	N/A	N/A	The material/environment (compressed gas) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
SP	SP	Tank (XTK0060), Sodium Hydroxide Storage	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program; Above Ground Tank Inspection	See Note A-SP-g, See Note A-SP-h	VII.C2.4-a, VII.C2.4.1	N.2-05	No	No	VII.C2.4-a and VII.C2.4.1 address loss of material to a closed-cycle cooling water tank and shell, respectively. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effect/mechanisms, as clarified. The SP system is not a closed cycle cooling water system, although the environment and conditions in the NAOH addition portion of the system is closer to a treated water (such as

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														<p>found in closed-cycle cooling water) than the borated water environment of the majority of the system. Relative to the credited aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program and VCSNS credits the Chemistry Program, since the SP system is not a closed-cooling water system. Also, certain aging effects/mechanisms not addressed for the GALL item are also managed by the credited program. Additionally, the attributes of the credited Chemistry Program meet the intent of another GALL Chapter IX program (XI.M1) except as clarified. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of a pertinent GALL program.</p> <p>As detailed in the referenced notes, the Above Ground Tank Inspection, a one-time internal inspection not to be confused with GALL program XI.M29, "Above Ground Carbon Steel Tanks", an inspection of inaccessible areas of external tank surfaces, is credited with supplementing the Chemistry Program to detect and characterize the effects of aging due to general corrosion from lack of oxygen control. Refer to TR00160-020 for a detailed discussion of this activity.</p>
SP	SP	Pipe and Fittings	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program; Above Ground Tank Inspection	See Note A-SP-g, See Note A-SP-h	VII.C2.1-a, VII.C2.1.1	N.2-05	No	No	<p>GALL Item VII.C2.1-a, VII.C2.1.1, addresses loss of material for closed-cycle cooling water piping, fittings and flanges, respectively. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effect/mechanisms, as clarified. The SP system is not a closed cycle cooling water system, although the environment and conditions in the NAOH addition portion of the system is closer to a treated water (such as found in closed-cycle cooling water) than the borated water environment of the majority of the system. Relative to the credited aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program and VCSNS credits the Chemistry Program, since the SP system is not a closed-cooling water system. Also, certain aging effects/mechanisms not addressed for the GALL item are also managed by the credited program.</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														<p>Additionally, the attributes of the credited Chemistry Program meet the intent of another GALL Chapter IX program (XI.M1) except as clarified. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of a pertinent GALL program.</p> <p>As detailed in the referenced notes, the Above Ground Tank Inspection, a one-time internal inspection not to be confused with GALL program XI.M29, "Above Ground Carbon Steel Tanks", an inspection of inaccessible areas of external tank surfaces, is credited with supplementing the Chemistry Program to detect and characterize the effects of aging due to general corrosion from lack of oxygen control. Refer to TR00160-020 for a detailed discussion of this activity.</p>
SP	SP	Valves (Body Only)	PB	Carbon Steel	Treated Water	Crevice Corrosion, Galvanic Corrosion, General Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program; Above Ground Tank Inspection	See Note A-SP-g, See Note A-SP-h	VII.C2.2-a, VII.C2.2.1	N.2-05	No	No	<p>VII.C2.2-a and VII.C2.2.1 address valves, and body and bonnet, respectively. The component/component type AMR results are consistent with the identified GALL item in material, environment, aging effect/mechanisms, as clarified. The SP system is not a closed cycle cooling water system, although the environment and conditions in the NaOH addition portion of the system is closer to a treated water (such as found in closed-cycle cooling water) than the borated water environment of the majority of the system. Relative to the credited aging management program, the identified GALL item references the Closed-Cycle Cooling Water System Program and VCSNS credits the Chemistry Program, since the SP system is not a closed-cooling water system. Also, certain aging effects/mechanisms not addressed for the GALL item are also managed by the credited program.</p> <p>Additionally, the attributes of the credited Chemistry Program meet the intent of another GALL Chapter IX program (XI.M1) except as clarified. Refer to TR00160-020 for a detailed discussion of the attributes of this program in effectively managing aging during the period of extended operation and in meeting the intent of a pertinent GALL program.</p> <p>As detailed in the referenced notes, the Above Ground Tank Inspection, a one-time internal inspection not to be confused with</p>

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
														GALL program XI.M29, "Above Ground Carbon Steel Tanks", an inspection of inaccessible areas of external tank surfaces, is credited with supplementing the Chemistry Program to detect and characterize the affects of aging due to general corrosion from lack of oxygen control. Refer to TR00160-020 for a detailed discussion of this activity.
MS	MS	Pipe and Fittings	PB	Carbon Steel	Ventilation *	General Corrosion	Loss of Material	Preventive Maintenance Activities - Terry Turbine	See Note A-MS-m, See Note A-MS-n	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. Note that the ventilation* environment is ambient building air (i.e., sheltered environment) contained within the MS System components. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
MS	MS	Valves (Body Only)	PB	Carbon Steel	Ventilation *	General Corrosion	Loss of Material	Preventive Maintenance Activities - Terry Turbine	See Note A-MS-m, See Note A-MS-n	VIII.H.1-b, VIII.H.1.1	T.4-05	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment, and aging effect. Note that the ventilation* environment is ambient building air (i.e., sheltered environment) contained within the MS System components. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
FS	FS	Expansion Joint, Diesel Driven Fire Pump Exhaust	PB	Carbon Steel	Air-Gas (Dry)	None Identified	None Identified	None Required	See Note A-FS-q	VII.H2.4-a, VII.H2.4.2	N.3-10	Yes, plant specific	No	VII.H2.4-a addresses the Emergency Diesel Generator muffler. The component/component type AMR results are consistent with the identified GALL item in material and environment. However, for VCSNS, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
FS	FS	Pipe and Fittings	PB	Carbon Steel	Air-Gas (CO2)	None Identified	None Identified	None Required	See Note A-FS-q	N/A	N.3-10	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
FS	FS	Expansion Joint, Diesel Driven Fire Pump Exhaust	PB	Carbon Steel	Yard	Galvanic Corrosion, General Corrosion	Loss of Material	Inspections for Mechanical Components	See Note A-FS-h	VIII.H.1-b, VIII.H.1.1	N.3-10	Yes, plant specific	No	VIII.H.1-b addresses external surfaces of carbon steel components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect, with the identification of additional aging effects requiring management that are not addressed in GALL for this item. However, the identified GALL item recommends plant specific evaluation of the credited program. Refer to TR00160-020 for a detailed discussion of the attributes of this activity in effectively managing aging during the period of extended operation.
RC	RC	Pipe and Fittings	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Notes A-RC-d and A-RC-f	V.C.1-b, V.C.1.1	N.1-14	Yes, Plant Specific	No	GALL Chapter IV, Reactor Coolant, addresses the treated water (non-borated) environment only on the secondary side of the steam generator. However, GALL item V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. VCSNS determined that the applicable containment penetrations were not subject to wetting by raw water and therefore not susceptible to MIC as described for this GALL item. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.
RC	RC	Valves (Body Only)	PB	Stainless Steel	Treated Water	Crevice Corrosion, Pitting Corrosion	Loss of Material	Chemistry Program	See Notes A-RC-d and A-RC-f	V.C.1-b, V.C.1.2	N.1-14	Yes, Plant Specific	No	GALL Chapter IV, Reactor Coolant, addresses the treated water (non-borated) environment only on the secondary side of the steam generator. However, GALL item V.C.1-b addresses containment isolation components. The component/component type AMR results are consistent with the identified GALL item in material, environment and aging effect. However, the identified GALL item recommends plant specific evaluation of the credited program. VCSNS determined that the applicable containment penetrations were not subject to wetting by raw water and therefore not susceptible to MIC as described for this GALL item. Refer to TR00160-020 for a detailed discussion of the attributes of the credited program in effectively managing aging during the period of extended operation.

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Eval. Sys.	Act. Sys.	Component Type	Comp. Func.	Material	Environment	Age Mech	Age Effect	Age Program	Age Notes	GALL Section	SRP Item	GALL Recom	Site Match	Gall Discus
RC	RC	Pipe and Fittings	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-RC-g	N/A	N.1-15	N/A	N/A	The material/environment (dry air) combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.
RC	RC	Valves (Body Only)	PB	Stainless Steel	Air-Gas	None Identified	None Identified	None Required	See Note A-RC-g	N/A	N.1-15	N/A	N/A	The material/environment combination for this component/component type is not addressed for any item in GALL Chapters IV, V, VII or VIII. Also, no aging effects were determined to require management during the period of extended operation as detailed in the applicable note.

Comp. Func.

FI	-	Filtration
GR	-	Gas Removal
HT	-	Heat Transfer
NR	-	Noise Reduction
PB	-	Pressure Boundary
SP	-	Spray Flow
TH	-	Throttling
WR	-	Water Removal