SeabrookNPEm Resource

From: Green, Kimberly
Sent: Thursday, September 16, 2010 5:11 PM
To: Cliche, Richard
Cc: Brittner, Donald; Min, Seung; Dozier, Jerry; Plasse, Richard
Subject: Material and Environment Audit
Attachments: Seabrook Random Sample for M and E.xls

Rick,

Attached is the material and environment spreadsheet which will be used during the upcoming scoping and screening methodology audit. It contains 35 random samples taken from the AMR Table 2's in the LRA. This spreadsheet is for the material and environment verification. As you'll see, there are several components for which NextEra will not be able to show to the reviewer because the components will not be accessible. For those components that are inaccessible, we would appreciate seeing documentation that would indicate what are the component material and environment.

The second verification that will be conducted is of 85 random samples based on your equipment database. Rick Plasse has already sent this file to you. For this effort, the reviewer will want to determine if the component is or is not within the scope of license renewal. For those that are determined to not be within the scope of license renewal, he will determine if the component was appropriately omitted from scope.

If you have any questions regarding these spreadsheets or what will be taking place regarding their use, please call or email me.

Thanks,
Kim

Hearing Identifier: Seabrook_License_Renewal_NonPublic
Email Number: 85

Mail Envelope Properties (Kimberly.Green@nrc.gov20100916171100)

Subject: Material and Environment Audit
Sent Date: 9/16/2010 5:11:27 PM
Received Date: 9/16/2010 5:11:00 PM
From: Green, Kimberly

Created By: Kimberly.Green@nrc.gov

Recipients:
"Brittner, Donald" <Donald.Brittner@nrc.gov>
Tracking Status: None
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Files	**Size**	**Date & Time**
MESSAGE	1184	9/16/2010 5:11:00 PM
Seabrook Random Sample for M and E.xls	55290	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
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SEABROOK STATION LRA - AGING MANAGEMENT EVALUATION RESULTS

System	LRA Table No	Component Type	Intended Function	Material	Environment	NRC Comment
Reactor Coolant	3.1.2.1	Reactor Coolant System Piping and Fittings (Hot Leg, Cold Leg, Surge Line and Spray Line)	Pressure Boundary	CASS	Reactor Coolant (Internal)	
Reactor Vessel	3.1.2.2	Reactor Vessel Control Rod Drive Penetration Nozzle and Welds	Pressure Boundary	Nickel Alloy	Air-Indoor Uncontrolled (External)	
Steam Generator	3.1.2.4	Orifice	Throttle	Nickel Alloy	Secondary Feedwater/Steam (Internal)	
Steam Generator	3.1.2.4	Steam Generator Lower Heads	Pressure Boundary	Steel With Stainless Steel Cladding	Reactor Coolant (Internal)	
RHR		Piping and Fittings (Class 1 <4 Inches)	Throttle	Stainless Steel	Reactor Coolant (Internal)	
SI	3.2.2.4	Piping and Fittings (Class 1 <4 Inches)	Pressure Boundary	Stainless Steel	Reactor Coolant (Internal)	
SI	3.2.2.4	Valve Body (Class 1)	Pressure Boundary	CASS	Reactor Coolant (Internal)	
Auxiliary Boiler	3.3.2.1	Flame Arrester	Pressure Boundary	Steel	Air-Outdoor (Internal)	
Auxiliary Boiler	3.3.2.1	Tank	Pressure Boundary	Steel	Air-Outdoor (External)	
Chemical & Volume Control	3.3.2.3	Flexible Hose	Pressure Boundary	Stainless Steel	Treated Borated Water (Internal)	
Chemical & Volume Control	3.3.2.3	Orifice	Pressure Boundary	Stainless Steel	Air-With Borated Water Leakage (External)	
Chemical & Volume Control	3.3.2.3	Pump Casing (High Head Centrifugal Charging Pump)	Pressure Boundary	Stainless Steel	Air-Indoor Uncontrolled (External)	
Containment Air Handling	3.3.2.5	Damper Housing	Pressure Boundary	Stainless Steel	Air-Indoor Uncontrolled (Internal)	
Containment Air Handling	3.3.2.5	Piping and Fittings	Pressure Boundary	Copper Alloy	Air-Indoor Uncontrolled (External)	

System	LRA Table No	Component Type	Intended Function	Material	Environment	NRC Comment
Containment Enclosure Air Handling	3.3.2.7	Air Conditioner Housing (EAH-AC-2A & 2B Housing)	Pressure Boundary	Steel	Air-Indoor Uncontrolled (External)	
Containment Online Purge	3.3.2.8	Piping and Fittings	Structural Integrity (Attached)	Stainless Steel	Air-Indoor Uncontrolled (Internal)	
Control Building Air Handling	3.3.2.9	Damper Housing	Pressure Boundary	Galvanized Steel	Air-Outdoor (Internal)	
Control Building Air Handling	3.3.2.9	Flexible Connector	Pressure Boundary	Elastomer	Air-Indoor Uncontrolled (Internal)	
Control Building Air Handling	3.3.2.9	Heat Exchanger Components (CBA-E-228A & B Cooling Coil)	Heat Transfer	Copper Alloy	Closed Cycle Cooling Water (Internal)	
Dewatering	3.3.2.11	Flexible Hose	Leakage Boundary (Spatial)	Elastomer	Raw Water (Internal)	
Diesel Generator	3.3.2.12	Expansion Joint	Pressure Boundary	Stainless Steel	Closed Cycle Cooling Water (Internal)	
Fuel Handling	3.3.2.16	Pump Casing	Leakage Boundary (Spatial)	Stainless Steel	Air-Indoor Uncontrolled (External)	
Fuel Oil	3.3.2.17	Bolting	Pressure Boundary	Steel	Air-Outdoor (External)	
Fuel Oil	3.3.2.17	Tank	Pressure Boundary	Steel	Air-Outdoor (External)	
Miscellaneous Equipment	3.3.2.23	Valve Body	Leakage Boundary (Spatial)	Copper Alloy >15% Zn	Air-With Borated Water Leakage (External)	
Primary Auxiliary Air Handling	3.3.2.28	Filter Housing	Leakage Boundary (Spatial)	Steel	Closed Cycle Cooling Water (Internal)	
Primary Component Cooling Water	3.3.2.29	Piping and Fittings	Leakage Boundary (Spatial)	Steel	Treated Water (Internal)	

System	LRA Table No	Component Type	Intended Function	Material	Environment	NRC Comment
Waste Processing Liquid Drain System	3.3.2.45	Orifice	Throttle	Stainless Steel	Raw Water (Internal)	
Spent Fuel Pool Cooling	3.3.2.39	Thermowell	Leakage Boundary (Spatial)	Stainless Steel	Treated Borated Water	
Steam Generator Blowdown	3.4.2.8	Thermowell	Leakage Boundary (Spatial)	Stainless Steel	Treated Water (Internal)	
Steam Generator Blowdown	3.4.2.8	Valve Body	Pressure Boundary	Steel	Air-Indoor Uncontrolled (External)	
Containment Structures	3.5.2.2	CNT-CEVA-Elastomeric Pressure Seal and Caulk Exposed to Air Indoor Uncontrolled	Structural Pressure Barrier	Elastomer	Air-Indoor Uncontrolled (External)	
Miscellaneous Yard Structures	3.5.2.4	MYS - Concrete ENCLOSURE FOR CONDENSATE STORAGE TANK Air Indoor Uncontrolled	Structural Support	Concrete	Air-Indoor Uncontrolled (External)	
Primary Structures	3.5.2.5	PST - Reinforced Concrete -PCEW- Exposed To Air Outdoor	Shelter, Protection	Concrete	Air-Outdoor (External)	
Supports	3.5.2.7	ASME Class 1 - Stainless Steel - Exposed To Air Indoor Uncontrolled	Structural Support	Stainless Steel	Air-Indoor Uncontrolled (External)	