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**From:** "Baker, Ray D." <RDBAKER@southernco.com>  
**To:** "William F. Burton (E-mail)" <wfb@nrc.gov>  
**Date:** Tue, Apr 4, 2000 2:49 PM  
**Subject:** Updated/Expanded Matrix

Butch,

As you requested last week, please find attached a WordPerfect document containing the previously provided matrix of programs/activities and commodity groups with a "system" column added. As in the previous e-mail, please note the following as regards this document:

1. The matrix does not depict where TLAA's are used to disposition certain aging effects for commodity groups (thermal fatigue-related or EQ-related issues).
2. The matrix does not depict those commodity groups for which no aging management is required. These commodity groups largely fall within either the dry gas environment or are electrical commodities.
3. The term "quasi-system" is used for the new column since the application does not literally group the components into systems. The traditional use of the term "system" would usually be interpreted as a group of components having the same "system" designator as a part of their part number (MPL). The Hatch Application identified intended functions. For each intended function, a "system" was identified as being the system primarily associated with the intended function and used that designator as a placeholder only. While there is generally a reasonable amount of line up between the two approaches, some intended functions cross traditional "system" boundaries to a large degree. Thus, there is no representation of "usefulness" associated with this listing of "quasi-systems."

Also, please note that although reasonable care has been taken to assure the accuracy of this document, it is intended as an administrative tool for your use in making work assignments. The document is not intended to modify the application in any respect.

Please let me know if you have any questions or comments regarding this subject.

Ray Baker  
8-992-7367

"Always do right. This will gratify some people and astonish the rest." --  
Mark Twain

ATTACHMENT

<<WPMATRIX of Programs - Commodities - Systems.doc>>

**CC:** "Crowe, Don M." <DMCROWE@southernco.com>, "Wade, J..."

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P/F: W. Burton

## MATRIX - COMMODITIES TO AGING MANAGEMENT PROGRAMS/ACTIVITIES

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.1.1 REACTOR WATER CHEMISTRY CONTROL	C.2.1.1.1 Reactor Pressure Vessel	B11
	C.2.1.1.2 Reactor Pressure Vessel Internals	B11
	C.2.1.1.3 Class 1 Carbon Steel Components Within the Reactor Water Environment	B21
	C.2.1.1.4 Class 1 Wrought and Forged Stainless Steel Components Within the Reactor Water Environment	B21 B31
	C.2.1.1.5 Class 1 Cast Austenitic Stainless Steel Components Within the Reactor Water Environment	B21 B31
	C.2.2.1.1 Non-Class 1 Carbon Steel Components Within the Reactor Water Environment	B21 E41 E51 N61
	C.2.2.1.2 Non-Class 1 Stainless Steel Components Within the Reactor Water Environment	B21 E41 E51 N32 N61
A.1.2 CLOSED COOLING WATER CHEMISTRY CONTROL	C.2.2.5.1 Non-Class 1 Carbon Steel Components Within the Closed Cooling Water Environment	P42 P64
	C.2.2.5.2 Non-Class 1 Stainless Steel Components Within the Closed Cooling Water Environment	P42 P64
	C.2.2.5.3 Non-Class 1 Copper Alloy Components Within the Closed Cooling Water Environment	P42 P64
A.1.3 DIESEL FUEL OIL TESTING	C.2.2.7.1 Non-Class 1 Carbon Steel Components Within the Fuel Oil Environment	Y52
	C.2.2.7.2 Non-Class 1 Stainless Steel Components Within the Fuel Oil Environment	Y52
	C.2.3.2 Fire Protection Diesel Fuel Oil Supply System	X43
A.1.4 PLANT SERVICE WATER AND RHR SERVICE WATER CHEMISTRY CONTROL	C.2.2.6.1 Non-Class 1 Carbon Steel Components Within the River Water Environment	E11 P41
	C.2.2.6.2 Non-Class 1 Stainless Steel Components Within the River Water Environment	E11 P41
	C.2.2.6.3 Non-Class 1 Copper Alloys Within the River Water Environment	E11 P41

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.1.4 PLANT SERVICE WATER AND RHR SERVICE WATER CHEMISTRY CONTROL (Continued)	C.2.2.6.4 Non-Class 1 Gray Cast Iron Components Within the River Water Environment	P41
	C.2.2.11.1 Residual Heat Removal Heat Exchangers	E11
A.1.5 FUEL POOL CHEMISTRY CONTROL	C.2.6.5 Spent Fuel Pool Liner, Components, and Racks	T24
	C.2.6.6 Aluminum	T24
A.1.6 DEMINERALIZED WATER AND CONDENSATE STORAGE TANK CHEMISTRY CONTROL	C.2.2.2.1 Non-Class 1 Carbon Steel Components Within the Demineralized Water Environment	C11 E41 E51 R43 T23
	C.2.2.2.2 Non-Class 1 Stainless Steel Components Within the Demineralized Water Environment	B21 C11 E41 E51 P11 R43 T23
	C.2.2.2.3 Condensate Storage Tanks	P11
	C.2.2.4.1 Non-Class 1 Carbon Steel Components Within the Borated Water Environment	C41
	C.2.2.4.2 Non-Class 1 Stainless Steel Components Within the Borated Water Environment	C41
A.1.7 SUPPRESSION POOL CHEMISTRY CONTROL	C.2.2.3.1 Non-Class 1 Carbon Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T23 T48
	C.2.2.3.2 Non-Class 1 Stainless Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T48
	C.2.2.11.1 Residual Heat Removal Heat Exchangers	E11

C.2.6.2 Steel Primary Containment and Internals	T23
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PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.1.8 CORRECTIVE ACTIONS PROGRAM	ALL COMMODITIES	IN-SCOPE PART OF ALL SYSTEMS
A.1.9 INSERVICE INSPECTION PROGRAM	C.2.1.1.2 Reactor Pressure Vessel Internals	B11
	C.2.1.1.3 Class 1 Carbon Steel Components Within the Reactor Water Environment	B21
	C.2.1.1.4 Class 1 Wrought and Forged Stainless Steel Components Within the Reactor Water Environment	B21 B31
	C.2.1.1.5 Class 1 Cast Austenitic Stainless Steel Components Within the Reactor Water Environment	B21 B31
	C.2.1.1.6 Class 1 Pressure Boundary Bolting	B21 B31
	C.2.2.11.1 Residual Heat Removal Heat Exchangers	E11
	C.2.4.3 Commodity External Surfaces exposed to a Buried or Embedded Environment	E11 P41
	C.2.6.2 Steel Primary Containment and Internals	T23 T52
	C.2.6.3 Steel Structures in Seismic Category I Buildings, the Turbine Building and Category I Yard Structures	T29 T31
A.1.10 OVERHEAD CRANE AND REFUELING PLATFORM INSPECTIONS		

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.1.11 TORQUE ACTIVITIES	C.2.1.1.6 Class 1 Pressure Boundary Bolting	B21 B31
	C.2.2.10.1 Non-Class 1 Bolting Materials	B21 C11 E11 E21 E41 E51 N61 P41 P42 P52 P64 P70 T23 T41 T48 T49 W33 X41 X43 Y52 Z41
	C.2.2.10.2 Non-Class 1 Stainless Steel Bolting Materials	C41 E11 E21 E41 E51 P11 P52 P70 T48 X41

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.1.12 COMPONENT CYCLIC OR TRANSIENT LIMIT PROGRAM	C.2.1.1.1 Reactor Pressure Vessel	B11
	C.2.1.1.3 Class 1 Carbon Steel Components Within the Reactor Water Environment	B21
	C.2.1.1.4 Class 1 Wrought and Forged Stainless Steel Components Within the Reactor Water Environment	B21 B31
	C.2.1.1.5 Class 1 Cast Austenitic Stainless Steel Components Within the Reactor Water Environment	B21 B31
	C.2.6.2 Steel Primary Containment and Internals	T23 T52
A.1.13 PLANT SERVICE WATER AND RHR SERVICE WATER INSPECTION PROGRAM	C.2.2.6.1 Non-Class 1 Carbon Steel Components Within the River Water Environment	E11 P41
	C.2.2.6.2 Non-Class 1 Stainless Steel Components Within the River Water Environment	E11 P41
	C.2.2.6.3 Non-Class 1 Copper Alloys Within the River Water Environment	E11 P41
	C.2.2.6.4 Non-Class 1 Gray Cast Iron Components Within the River Water Environment	P41
	C.2.4.3 Commodity External Surfaces exposed to a Buried or Embedded Environment	E11 P41
A.1.14 PRIMARY CONTAINMENT LEAKAGE RATE TESTING PROGRAM	C.2.6.2 Steel Primary Containment and Internals	T23 T52
A.1.15 BOILING WATER REACTOR VESSEL AND INTERNALS PROGRAM	C.2.1.1.2 Reactor Pressure Vessel Internals	B11
A.1.16 WETTED CABLE ACTIVITIES	C.2.5.4 Insulated Electrical Cable Outside Containment	E11 E21 P41 R23 S11
A.1.17 REACTOR PRESSURE VESSEL MONITORING PROGRAM	C.2.1.1.1 Reactor Pressure Vessel	B11

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.2.1 FIRE PROTECTION ACTIVITIES	C.2.3.1 Water Based Fire Suppression Systems	X43
	C.2.3.2 Fire Protection Diesel Fuel Oil Supply System	X43
	C.2.3.3 Compressed Gas Based Fire Suppression System	X43
	C.2.3.4.1 Fire Penetration Seals	X43
	C.2.3.4.2 Cable Tray Fire Barriers	X43
	C.2.3.4.3 Fire Doors	X43
	C.2.4.1 Commodity External Surfaces Exposed to an Inside Environment	X43
	C.2.4.2 Commodity External Surfaces exposed to an Outside Environment	X43
A.2.2 FLOW ACCELERATED CORROSION PROGRAM	C.2.1.1.3 Class 1 Carbon Steel Components Within the Reactor Water Environment	B21
	C.2.2.1.1 Non-Class 1 Carbon Steel Components Within the Reactor Water Environment	B21 E41 E51 N61
A.2.3 PROTECTIVE COATINGS PROGRAM	C.2.2.3.1 Non-Class 1 Carbon Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T23 T48
	C.2.2.4.1 Non-Class 1 Carbon Steel Components Within the Borated Water Environment	C41

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.2.3 PROTECTIVE COATINGS PROGRAM (Continued)	C.2.2.10.1 Non-Class 1 Bolting Materials	B21 C11 E11 E21 E41 E51 N61 P41 P42 P52 P64 P70 T23 T41 T48 T49 W33 X41 X43 Y52 Z41
	C.2.3.1 Water Based Fire Suppression Systems	X43



PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.2.3 PROTECTIVE COATINGS PROGRAM (Continued)	C.2.4.1 Commodity External Surfaces Exposed to an Inside Environment	B21 C11 C41 E11 E41 E51 N61 P41 P42 P52 P64 P70 R43 T23 T41 T46 T48 T49 X41 X43 Y52 Z41
	C.2.4.2 Commodity External Surfaces exposed to an Outside Environment	E41 E51 P41 X43 Y52
	C.2.4.3 Commodity External Surfaces exposed to a Buried or Embedded Environment	E11 P41 T46 X43 Y52

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.2.3 PROTECTIVE COATINGS PROGRAM (Continued)	C.2.6.1 Concrete Structures	T23 T24 T29 U29 W35 Y29 Y32 Y39 Z29
	C.2.6.2 Steel Primary Containment and Internals	T23 T52
	C.2.6.3 Steel Structures in Seismic Category I Buildings, the Turbine Building and Category I Yard Structures	F15 L48 T24 T29 T31 T38 T54 U29 W33 W35 Y29 Y32 Y39 Z29
	C.2.6.4 Component Supports	H11 H21 L35 R33

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.2.4 EQUIPMENT AND PIPING INSULATION MONITORING PROGRAM	C.2.4.4.1 Insulation	E11 E21 E41 E51 P41
	C.2.4.4.2 Insulation Jacketing	E11 E21 E41 E51 P41
A.2.5 STRUCTURAL MONITORING PROGRAM	C.2.2.6.1 Non-Class 1 Carbon Steel Components Within the River Water Environment	E11 P41 W33
	C.2.2.6.2 Non-Class 1 Stainless Steel Components Within the River Water Environment	E11 P41
	C.2.2.6.3 Non-Class 1 Copper Alloys Within the River Water Environment	E11 P41
	C.2.2.6.4 Non-Class 1 Gray Cast Iron Components Within the River Water Environment	P41
	C.2.2.11.1 Residual Heat Removal Heat Exchangers	E11
	C.2.6.1 Concrete Structures	T23 T24 T29 U29 W35 Y29 Y32 Y39 Z29

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.2.5 STRUCTURAL MONITORING PROGRAM (Continued)	C.2.6.3 Steel Structures in Seismic Category I Buildings, the Turbine Building and Category I Yard Structures	F15 L48 T24 T29 T31 T38 T54 U29 W33 W35 Y29 Y32 Y39 Z29
	C.2.6.4 Component Supports	H11 H21 L35 R33
	C.2.6.7 Structural Sealants	T29
	C.2.6.8 Tornado Relief Vent Assemblies	T38
	C.2.1.1.3 Class 1 Carbon Steel Components Within the Reactor Water Environment	B21
	C.2.2.1.1 Non-Class 1 Carbon Steel Components Within the Reactor Water Environment	B21 E41 E51 N61
A.3.1 GALVANIC SUSCEPTIBILITY INSPECTIONS	C.2.2.2.1 Non-Class 1 Carbon Steel Components Within the Demineralized Water Environment	C11 E41 E51 R43 T23

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.3.1 GALVANIC SUSCEPTIBILITY INSPECTIONS (Continued)	C.2.2.3.1 Non-Class 1 Carbon Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T23 T48
	C.2.2.6.1 Non-Class 1 Carbon Steel Components Within the River Water Environment	E11 P41 W33
A.3.2 TREATED WATER SYSTEMS PIPING INSPECTIONS	C.2.1.1.3 Class 1 Carbon Steel Components Within the Reactor Water Environment	B21
	C.2.1.1.4 Class 1 Wrought and Forged Stainless Steel Components Within the Reactor Water Environment	B21 B31
	C.2.2.1.1 Non-Class 1 Carbon Steel Components Within the Reactor Water Environment	B21 E41 E51 N61
	C.2.2.1.2 Non-Class 1 Stainless Steel Components Within the Reactor Water Environment	B21 E41 E51 N32 N61
	C.2.2.2.1 Non-Class 1 Carbon Steel Components Within the Demineralized Water Environment	C11 E41 E51 R43 T23
	C.2.2.2.2 Non-Class 1 Stainless Steel Components Within the Demineralized Water Environment	B21 C11 E41 E51 P11 R43 T23

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.3.2 TREATED WATER SYSTEMS PIPING INSPECTIONS (Continued)	C.2.2.3.1 Non-Class 1 Carbon Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T23 T48
	C.2.2.3.2 Non-Class 1 Stainless Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T48
	C.2.2.4.2 Non-Class 1 Stainless Steel Components Within the Borated Water Environment	C41
	C.2.2.5.1 Non-Class 1 Carbon Steel Components Within the Closed Cooling Water Environment	P42 P64
	C.2.2.5.2 Non-Class 1 Stainless Steel Components Within the Closed Cooling Water Environment	P42 P64
	C.2.2.5.3 Non-Class 1 Copper Alloy Components Within the Closed Cooling Water Environment	P42 P64
A.3.3 GAS SYSTEMS COMPONENT INSPECTIONS	C.2.2.9.1 Non-Class 1 Carbon Steel and Cast Iron Components in the Humid or Wetted Gases Environment	B21 C11 E11 E41 E51 R43 T23 T46 T48 T49 X41 Y52 Z41

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.3.3 GAS SYSTEMS COMPONENT INSPECTIONS (Continued)	C.2.2.9.2 Non-Class 1 Stainless Steel Components Containing Humid or Wetted Gases	B21 E41 E51 P33 R43 T23 T41 T46 T48 T49 X41 Y52 Z41
	C.2.2.9.3 Non-Class 1 Copper Alloy Components Containing Humid or Wetted Gases	C11 R43 T41 T46 X41 Z41
	C.2.2.9.4 Non-Class 1 Galvanized Carbon Steel and Aluminum Components Containing Humid or Wetted Gases	R43 T41 T46 Z41
	C.2.4.2 Commodity External Surfaces exposed to an Outside Environment	R43 X41 Z41
	C.2.6.7 Structural Sealants	Z41
A.3.4 CONDENSATE STORAGE TANK INSPECTION	C.2.2.2.3 Condensate Storage Tanks	P11

PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.3.5 PASSIVE COMPONENT INSPECTION ACTIVITIES	C.2.2.9.1 Non-Class 1 Carbon Steel and Cast Iron Components in the Humid or Wetted Gases Environment	B21 C11 E11 E41 E51 R43 T23 T46 T48 T49 X41 Y52 Z41
	C.2.2.9.2 Non-Class 1 Stainless Steel Components Containing Humid or Wetted Gases	B21 E41 E51 P33 R43 T23 T41 T46 T48 T49 X41 Y52 Z41
	C.2.2.9.4 Non-Class 1 Galvanized Carbon Steel and Aluminum Components Containing Humid or Wetted Gases	R43 T41 T46 Z41
	C.2.4.2 Commodity External Surfaces exposed to an Outside Environment	R43 X41 Z41



PROGRAM/ACTIVITY	COMMODITY	QUASI-SYSTEM
A.3.5 PASSIVE COMPONENT INSPECTION ACTIVITIES (Continued)	C.2.4.3 Commodity External Surfaces exposed to a Buried or Embedded Environment	E11 P41 T46 X43 Y52
	C.2.6.2 Steel Primary Containment and Internals	T23
	C.2.6.7 Structural Sealants	Z41
A.3.6 RHR HEAT EXCHANGER AUGMENTED INSPECTION AND TESTING PROGRAM	C.2.2.11.1 Residual Heat Removal Heat Exchangers	E11
A.3.7 TORUS SUBMERGED COMPONENTS INSPECTION PROGRAM	C.2.2.3.1 Non-Class 1 Carbon Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T23 T48
	C.2.2.3.2 Non-Class 1 Stainless Steel Components Within the Suppression Pool Environment	B21 E11 E21 E41 E51 T48