

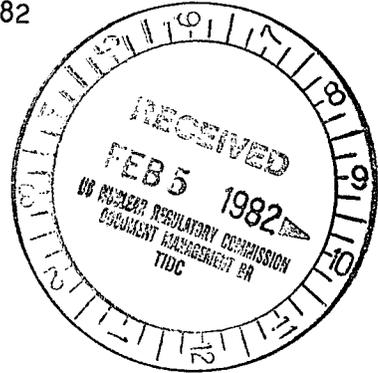
TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

January 28, 1982

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555



Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

Enclosed for NRC information is a revision to the Watts Bar Nuclear Plant Final Safety Analysis Report (FSAR) chapter 17, Table 17.2-2. This revision identifies the systems, structures, and components contained in the Critical Structures, Systems, and Components (CSSC) List. This information will be included in Amendment 47 of the FSAR.

If you have any questions concerning this matter, please get in touch with D. P. Ormsby at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Regulation and Safety

Sworn to and subscribed before me
this 28th day of January 1982

Paulette H. White
Notary Public

My Commission Expires 9-5-84

Enclosure

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TABLE 17.2-1

CRITICAL STRUCTURES, SYSTEMS, AND COMPONENTS

The Division of Nuclear Power prepares a Critical Structure, Systems, and Components (CSSC) list for each operating plant. Items designated on this list are treated under the operational QA program as set forth in the Operational Quality Assurance Manual (OQAM).

The only requirement for inclusion of items on the CSSC list is that they be safety related. For this purpose, safety-related items have been defined as those that are necessary to ensure:

1. The integrity of the reactor coolant pressure boundary
2. The capability to shut down the reactor and maintain it in a safe condition
3. The capability to prevent or mitigate the consequences of an incident which could result in potential offsite exposures comparable to those specified in 10 CFR Part 100.

Additionally, Nuclear Power has included other items important to continued plant operations which should receive the same level of quality assurance coverage as safety-related items described above.

The detailed CSSC list for Watts Bar Nuclear Plant is contained in the Operational Quality Assurance Manual which is maintained at the plant. This table identifies the structures, systems, and components contained in the CSSC list. Safety-related portions of these identified systems are designated on the detailed CSSC list contained in the OQAM and are treated in accordance with the procedures in the OQAM.

TABLE 17.2-1 (Continued)

- 1.0 Primary Containment
 - 1.1 Containment Vessel Steel Shell and Liner
 - 1.2 Penetrations
 - 1.3 Personnel Airlocks and Equipment Access Port
 - 1.4 Divider Barrier Seal
 - 1.5 Containment Protective Coating
- 2.0 Primary Containment and Reactor Coolant System Containment Boundary Control System
 - 2.1 Valves, Operators, Piping, and Supports
 - 2.2 Electrical
- 3.0 Primary Containment Atmospheric Control System
 - 3.1 Combustible Gas Control System
 - 3.2 Air return System
 - 3.3 Emergency Gas Treatment System
- 4.0 Reactor Building
 - 4.1 Shield Building (Including Main Steam and Feedwater Compartment and Steam Valve Rooms)
 - 4.2 Containment (Reactor Building) Purge System
 - 4.3 Structures Within Containment
 - 4.3.1 Concrete Structures
 - 4.3.2 Structural Steel
 - 4.3.3 Ice Condenser
 - 4.3.4 Fuel Transfer Canal Liner
 - 4.3.5 Cable Trays and Supports
 - 4.4 Handling Devices
 - 4.4.1 Polar Crane
 - 4.4.2 Manipulator Crane
 - 4.4.3 Fuel Transfer System
 - 4.5 Pressure-Containing or Watertight Doors, Hatches, or Manways and Seals
- 5.0 Auxiliary Building Including Waste Packaging Area, Additional Equipment and Condensate Demineralizer Waste Evaporator Buildings
 - 5.1 Concrete Structures
 - 5.2 Structural Steel
 - 5.3 Penetrations and Penetration Seals in Compartments Isolated With Emergency Gas Treatment System
 - 5.4 Electrical Penetrations and Seals Through Boundary Walls
 - 5.5 Piping Penetrations and Seals Through Boundary Walls
 - 5.6 Instrument and Control Penetrations and Seals Through Boundary Walls
 - 5.7 Shutdown Board Rooms, Auxiliary Control Room, and Battery Board Rooms I through IV Air-Conditioning System

TABLE 17.2-1 (Continued)

- 5.8 Shutdown Board Transformer Room Ventilation System
- 5.9 Fuel Handling Area Ventilation
- 5.10 Engineered Safety Equipment Cooling System
- 5.11 Auxiliary Building Gas Treatment System
- 5.12 Fuel Handling and Storage Devices
- 5.13 Auxiliary Board Rooms and Battery Rooms I Through IV Ventilation and Air-Conditioning Systems
- 5.14 Auxiliary Control Air System
- 5.15 Auxiliary Building Secondary Containment Enclosure
- 5.16 Spent Fuel Pool Cooling System
- 5.17 Turbine-Drive Auxiliary Feed Water Pump Room Ventilation System
- 5.18 Pressure-Containing or Watertight Doors, Hatches, or Manways and Seals
- 5.19 Cable Trays and Supports
- 5.20 Masonry Walls
- 6.0 Control Building
 - 6.1 Concrete
 - 6.2 Structural Steel
 - 6.3 Main Control Room Air-Conditioning System
 - 6.4 Control Building Pressurization Systems, Control Building Emergency Air Pressurization Systems, Control Building Air Cleanup Systems, and 24, 48, and 250 VDC Battery Room Exhaust Systems
 - 6.5 Electrical Board, Charger, and Communication Room Air-Conditioning Systems
 - 6.6 Pressure-Containing or Watertight Doors, Hatches, or Manways and Seals
 - 6.7 Cable Trays and Supports
 - 6.8 Masonry Walls
- 7.0 Diesel Generator Building
 - 7.1 Concrete
 - 7.2 Reinforcing Steel
 - 7.3 Exhaust Systems 1 and 2, Battery Hood Exhaust systems, Electric Board Room Exhaust Systems, and Natural Supply Systems
 - 7.4 Pressure-Containing or Watertight Doors, Hatches, or Manways and Seals
 - 7.5 Cable Trays and Supports
- 8.0 Intake Pumping Stations, Channels, and Retaining Walls
 - 8.1 Concrete
 - 8.2 Structural Steel
 - 8.3 Retaining Walls (Concrete and Sheet Pile)
 - 8.4 Traveling Water Screens
 - 8.5 Trash Racks

TABLE 17.2-1 (Continued)

9.0 Yard Structures

- 9.1 Class IE Electrical System Manholes, Handholes, and Conduits
 - 9.1.1 Diesel Generator Building to Auxiliary Building
 - 9.1.2 Auxiliary Building to Intake Pumping Structure
 - 9.1.3 Underground Electrical Concrete Conduit Banks
- 9.2 Supports for ERCW Piping to Intake Pumping Banks
- 9.3 Pipe Encasements at Diesel Generators
- 9.4 ERCW Standpipe and Overflow Discharge Structures
- 9.5 Carbon Dioxide Storage Building
- 9.6 Refueling Water Storage Tank
- 9.7 Fire Protection Piping

10.0 Refueling Water Storage Tank

11.0 Reactor Coolant Systems

- 11.1 Reactor Pressure Vessel
- 11.2 Reactor Vessel Internals
- 11.3 Fuel Assemblies
- 11.4 Control Rod Assemblies and Drive Mechanisms
- 11.5 Control Rod Drive Mechanism Seismic Support
- 11.6 Reactor Coolant Pumps
- 11.7 Reactor Coolant Pressure Boundary Piping
- 11.8 Steam Generators (Primary Side)
- 11.9 Pressurizer
- 11.10 Reactor Coolant System Supports
- 11.11 Electrical
- 11.12 Water Treatment Chemicals
- 11.13 Sampling System Delay Coil
- 11.14 Reactor Vessel Vent System

12.0 Steam and Blowdown Systems

- 12.1 Main Steam
- 12.2 Steam Line to Auxiliary Feedwater Pump Turbines
- 12.3 Steam Generator Blowdown
- 12.4 Steam Generators (Secondary Side)

13.0 Feedwater System (Including Auxiliary Feedwater System)

- 13.1 Main Feedwater System
- 13.2 Auxiliary Feedwater System

TABLE 17.2-1 (Continued)

- 14.0 Safety Injection System
- 15.0 Residual Heat Removal System
- 16.0 Containment Spray System
- 17.0 Ice Condenser System
- 18.0 Chemical and Volume Control System
- 19.0 Component Cooling Systems
- 20.0 Essential Raw Cooling Water System

- 21.0 Radioactive Waste Systems
 - 21.1 Radioactive Liquid Waste System
 - 21.2 Radioactive Gaseous Waste System
- 22.0 Instruments and Controls
 - 22.1 Seismically-Qualified Cabinets, Panels, and Instrument Racks
- 23.0 Emergency Power System
 - 23.1 Diesel Generator System
 - 23.2 Distribution System
 - 23.3 125-Volt Vital Battery System
 - 23.4 120-Volt A.C. Vital Instrument Power System
 - 23.5 Emergency Lighting
- 24.0 Upper Head Injection System
- 25.0 Fire Protection and Detection Systems in Areas Containing Safety-Related Equipment
 - 25.1 High-Pressure Fire Protection Systems
(From Intake Structure through Fire Stations in Auxiliary Building, Control Building, Reactor Building, and Diesel Generator Building)
 - 25.2 Carbon Dioxide Protection Systems (Supply to Spreader Rooms, Auxiliary Instruments Rooms, and Diesel Generator Building)
- 26.0 Flood Mode Boration and Makeup
- 27.0 Radioactive Material Shipping Containers
 - 27.1 Spent Fuel Casks
 - 27.2 Radioactive Waste Casks

TABLE 17.2-1 (Continued)

- 28.0 Reactor Protection System
- 29.0 Engineered Safety Features Activation Systems
- 30.0 Safety Related Display Indication
- 31.0 Remote Shutdown Monitors and Controls
- 32.0 Post Accident Sampling