

CATEGORY 1

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9707080154 DOC. DATE: 97/06/30 NOTARIZED: NO
FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.
50-270 Oconee Nuclear Station, Unit 2, Duke Power Co.
50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.

DOCKET #
05000269
05000270
05000287

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SUBJECT: Forwards descriptions of facility changes, tests &
experiments completed, per 10CFR 50.59 between 960101-1231.

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TITLE: 50.59 Annual Report of Changes, Tests or Experiments Made W/out Approv

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DUKE POWER

June 30, 1997

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Oconee Nuclear Station
Docket Nos. 50-269, 50-270, 50-287
10 CFR 50.59 Annual Report

Attached are descriptions of Oconee facility changes, tests, and experiments which were completed subject to the provisions of 10 CFR 50.59 between January 1, 1996, and December 31, 1996. This report is submitted pursuant to the requirement of 10 CFR 50.59 (b) (2).

Very truly yours,

A handwritten signature in dark ink, appearing to read "J. W. Hampton". The signature is fluid and cursive, with a large loop at the beginning.

J. W. Hampton

Attachment

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U. S. Nuclear Regulatory Commission
June 30, 1997
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Attachment
Oconee Facility Changes - 1996

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I. Procedures and Tests

Procedure/Test

Unit 3

Description of Change:

Procedure (TN/3/A/3001/DL1) provides instructions and documentation for the Electrical portion of the removal of Limitorque Control Valves 3LPSW-4 and 3LPSW-5 (LPI Cooler Shell Outlet Valves) from the Engineered Safeguards (ES) System. These valves are EQ (Environmentally Qualified) QA1 valves. ES function cables will be removed from Motor Control Center 3XS1, Compartment R3D and Motor Control Center 3XS2, Compartment R2D and associated Computer Cabinets. Two new non-safety cables will be required for this modification.

Summary:

The necessary Technical Specification changes have already been approved for this procedure change. UFSAR Sections 6.3.2.2.2 and Table 7-3 will need to be revised. No USQs are created by or involved with this change.

Procedure/Test

Units 1,2,3

Description of Change:

Procedure SI/A/5120/001 is being proposed to standardize the practice of splicing and repairing nicked insulation and installation of drip loops on Class 1E circuits rated 600 volts or less at all three of Duke Power Nuclear Stations.

Summary:

No UFSAR or Technical Specification changes are required for this change. No USQs are created by or involved with this procedure change.

Procedure/Test

Unit 3

Description of change:

Temporary test procedure (TT/3/A/0150/039) will isolate the turbine bypass lines in order to stroke the turbine bypass valves at power to assure operability of the valves after maintenance.

Summary:

No UFSAR or Technical Specifications changes are required for this change. No USQs are created by or involved with this procedure change.

Procedure/Test

Unit 1,2,3

Description of Change:

Procedure OP/0/A/1506/01, Fuel and Component Handling, Change 70 was implemented to provide guidelines for fuel handling bridge operators to use for re-indexing of the bridge and trolley over fuel racks and upenders.

Summary:

No UFSAR or Technical Specifications changes are required for this change. No USQs are created by or involved with this procedure change.

Procedure/Test

Unit 3

Description of Change:

Chemistry Procedures CP/1&2/A/2002/05 and CP/3/A/2002/05 "Caustic injection into the Low Pressure Injection System" changes number 7 and 6 respectively were initiated as a major revision incorporating the use of 350 gallon bulk containers (tote bins) as a replacement for the previously used 55 gallon poly drums. The caustic mix tank will no longer be used.

Summary:

No Technical Specification changes are required for this procedure change. UFSAR 9.3.1.2 will be revised. No USQs are created by or involved with this change.

Procedure/Test

Units 2

Description of Change:

This attachment to the maintenance troubleshooting procedure (MP/0/A/1800/22) specifies corrective actions to address an abnormal fuel handling situation. While raising a fuel assembly from the west upender basket, the bolt securing the center sheave assembly to the load cell assembly sheared off. This condition resulted in the load cell being inoperable and the sheave positioned such that it would not turn freely. This procedure revision will allow the load to be taken off the sheave to allow the sheave to be moved out of the load path for fuel assembly repair.

Summary:

No UFSAR or Technical Specification changes are required for this change. No USQs are created by or involved with this procedure change.

Procedure/Test
Unit 2

Description of Change:

This temporary test procedure (TT/2/B/0271/009) provides for operation of a temporary manual controller that will, 1) decrease the probability and consequences of feedwater heater drain system water hammers, and 2) reduce thermal stresses to the Second Stage Reheaters (SSRH) and Low Pressure Turbines.

Summary:

No UFSAR or Technical Specification changes are required for this procedure change. No USQs are created by or involved with this change.

Procedure/Test
Unit 3

Description of Change:

Modification procedure (TN/3/B/8571/MM/01E) provides implementation instructions for deleting the thrust bearing wear detector trip logic and relocating the pressure switches that provide the low bearing oil pressure trip. This work will be done while the unit is shutdown and will be performed one time only.

Summary:

No UFSAR or Technical Specification changes are required for this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Units 1,2,3

Description of Change:

This procedure change is being implemented to address Reactor Coolant Makeup/Pressurizer Level Control Valve HP120 calibration. Specifically, instructions are being added to include calibration of the Hand/Auto Selector Station, RC SS01LIC-MC, located on the Auxiliary Shutdown Panel.

Summary:

No Technical Specifications changes are required. UFSAR Section 7.7.5.1 will be revised. No USQs are created by or involved with this procedure change.

Procedure/Test

Unit 1,2,3

Description of Change:

Procedure change 28 to CP/O/B/5200/54 provides steps to transfer, recirculate or process liquid waste with the Radwaste Facility's Liquid Waste feed System.

Summary:

No Technical Specification or UFSAR changes are required by this procedure change. No USQs are created by or involved with change.

Procedure/Test

Units 1,2,3

Description of Change:

This implementation of NSM-53000 part AS1 using procedure TN/S/A/3000/010/SS1 installs a reinforced concrete trench that will be used for routing future Essential Siphon Vacuum piping and electrical conductors. This new trench is being installed in the intake dike and adjacent to other operating systems. Adequate instructions, information, cautions, and warnings about the dike and adjacent systems, are provided to insure their integrity during the installation. The modification creates no adverse effects on the intake dike or adjacent systems. Additionally, FERC permits have been obtained for excavation on the dike.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Units 1,2,3

Description of Change:

This change #1 to procedure TN/5/A/3000/00/SS1 allows for a different valve line-up of the stand-by Condenser Cooling Water (CCW) pump seal/cooling water supply; provides for the expanded use of the temporary CCW pump seal/cooling water supply; and provides directions to operations in the event of loss of CCW pump seal/cooling water.

Summary:

No Technical Specifications or UFSAR changes are required by this change. No USQs are created by or involved with this procedure change.

Procedure/Test

Unit 1,2,3

Description of Change:

This procedure change to CP/0B/5200/02 provides the steps necessary to collect, transfer, and process waste for the Laundry and Hot Shower Tank system (LHST). The LHST collects liquid waste from the laundry decontamination, contaminated skins and showers, contaminated drying rooms floor drains and the Component Cooling Drains Tank.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Unit 1,2,3

Description of Change:

Changes were made to CP/O/B/5200/48 to increase the flexibility and efficiency of the procedure. Some of the changes were simply changes to the structure of the procedure. Some were changes in the operation of the procedure. None of the changes affect the expected outcome, completion criteria or operational philosophy of the procedure.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Unit 1,2,3

Description of Change:

This procedure TT/0/A/160/013 is being written to fulfill the intent/requirements of recently developed Duke system Directives. This procedure will verify that the SSF HVAC fan flows are adequate to maintain SSF areas within their acceptable temperature limits when the SSF is both on-line and in standby modes.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Units 1, 2

Description of Change:

Procedure MP/0/A/2000/032, Mulsifyre System Semiannual Check could not be completed on 7-10-96 due to poor flow meter operation. Procedure TT/0/A/01610/018."Fire Protection Pump Performance Test" was initiated to complete the tests for determining performance characteristics of the Fire Protection Pump and the Main Step-up Transformer Mulsifyre System.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test
Unit 1,2,3

Description of Change:

Procedure TT/0/A/0400/26 performed a test which operated the Standby Shutdown Facility (SSF) Diesel Generator (D/G) for 24 hours while powering the SSF ASW pump, one of the SSF HVAC service water pumps, and the SSF diesel service water (DSW) pump. The three SSF RC makeup pumps were powered by the SSF D/G for the first two hours of the test. D/G and SSF service water system performance data were taken during this test. Once testing of the D/G was complete, full SSF HVAC service water flow was directed through the SSF HVAC service water system to allow additional flow/pressure performance data to be gathered for this system.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test
Units 1, 2, 3

Description of Change:

Monitoring of Spent Fuel Pool level by direct observation is required once the radiation level in the area surrounding the Spent Fuel Pool is low enough to allow access to the Spent Fuel Pool rooms. Caution statements were added to indicate that "visual observation" is the required method of monitoring spent fuel pool level during the filling observation. The use of the permanently installed fill line to the Unit 3 Spent Fuel Pool was included in the appropriate sections of this procedure. The requirement of a third pumper fire truck was included in the appropriate sections of this procedure.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Unit 1,2,3

Description of Change:

Procedure SI/0/A/5120/002 (Wire Terminal Installation, Labeling, and Terminations for Circuits with a Potential of 600 volts or less) is being issued as a standard procedure to be used at all three of Duke Power's nuclear facilities.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Unit 1,2,3

Description of Change:

Procedure TT/0/M/0160/013 is being written to fulfill the intent/requirements of a recently developed Nuclear System Directive. This procedure will verify that the SSF HVAC fan flows are adequate to maintain SSF areas within their acceptable temperature limits when the SSF is both on-line and in standby modes. New acceptable upper UFSAR temperature limits within parts of the SSF will be established.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. Changes to UFSAR section 9.6.3.6.4 will be necessary. No USQs are created by or involved with this change.

Procedure/Test
Units 1,2,3

Description of Change:

Procedure TT/O/A/0620/030 "Keowee Hydro Load Rejection Test" gave directions for connecting monitoring instrumentation to the Keowee Hydro generators and operating them to collect operating data. Monitoring instrumentation was connected to the generator potential and current transformers to collect power, reactive power, and frequency values during a load rejection transient. The Keowee Units were started and loaded to the Duke grid and given an emergency start signal. The emergency start caused the generator breakers to open and the unit to experience a load rejection and continue to operate at speed with no load.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test
Unit 1

Description of Change:

The purpose of this test was to perform vibration testing of the Low Pressure Service Water (LPSW) piping through the 1B Low Pressure Injection (LPI) cooler, particularly at valve 1LPSW-252 (1B LPI COOLER CONTROL), with and without throttling valve 1LPSW-256 (1LPSW-252 Outlet Block). The vibration testing was in response to the corrective actions associated with Problem Investigation Process Report PIP 0-095-1401. The test was performed with Unit 1 and Unit 2 at cold shutdown. During the test, the LPSW system was to continue to provide the safety functions as currently described in the UFSAR. The test did not remove a train of decay heat removal from service on Unit 1 or Unit 2. The RCS temperature did not affect either unit. The LPSW system piping and components were operated within their design limits.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Unit 3

Description of Change:

Revision 2 to procedure TN/3/B/8571/MM/01E will specify implementation instructions for deleting the trip and relocating the pressure switches that provide the low bearing oil pressure trip. This work will be done while the unit is shutdown and will be performed one time only. It also does not pose a threat to the safety and well-being of the public.

Summary:

No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

Procedure/Test

Unit 1

Description of Change:

Procedure TT/1/A/1104/001 was originated to implement a testing program to correlate CCW pump intake screen fouling with known, measured values of CCW pump bay differential level. The resulting data will provide a basis for validation or revision of the current differential level alarm setpoint.

Summary:

No system functional design bases are adversely affected and no new failure modes are introduced. No Technical Specifications or UFSAR changes are required by this procedure change. No USQs are created by or involved with this change.

II. Minor Modifications (OEs)

OE # 6576

Unit 5

Description of Change:

Replace 2 inch fuse blocks and fuses/copper bars in Keowee Distribution Center 1DA compartments 2A, 5B & 5C with 1.5 inch fuse blocks and CCMR-3 fuses.

Summary:

No USQs are created or involved with this modification because the intent of the system design is unaffected. The seismic qualification of the equipment is unaffected; the new fuse blocks are lighter than the original. No Technical Specification or UFSAR changes are required.

OE # 6587

Unit 5

Description of Change:

Replace 2 inch fuse blocks and fuses/copper bars in Keowee Distribution Center 1DA compartments 1B, 1C, & 4A with 1.5 inch fuse blocks and CCMR-3 fuses.

Summary:

No USQs are created or involved with this modification because the intent of the system design is unaffected. The seismic qualification of the equipment is unaffected; the new fuse blocks are lighter than the original. No Technical Specification or UFSAR changes are required.

OE # 6965

Unit 2

Description of Change:

A 12" butterfly valve (2CCW-90) with flanged end connections which serves as the discharge canal "2A" midpoint vent was deleted and replaced with pipe. The vent pipes were raised by 7 feet to compensate for removal of the valves. The valves are no longer needed in the system. This removes an active valve from test requirements.

Summary:

No USQs are created or involved with this modification. The vent function is now served by an open pipe. The pipe is raised 7 feet to prevent water from escaping. No Technical Specification changes are required. UFSAR Figure 9-9 should be revised.

OE # 6966

Unit 2

Description of Change:

A 12" butterfly valve (2CCW-91) with flanged end connections which serves as the discharge canal "2B" midpoint vent is to be deleted and replaced with pipe. The vent pipes will be raised by 7 feet to compensate for removal of the valves. These valves will no longer be needed in the system. This removes an active valve from test requirements.

Summary:

No USQs are created or involved with this modification. The vent function is now served by an open pipe. The pipe is raised 7 feet to prevent water from escaping. No Technical Specification changes are required. UFSAR Figure 9-9 should be revised.

OE # 7218

Unit 3

Description of Change:

A local flow indicator with a range of 0-2000 gpm is being installed in parallel with existing Low Pressure Injection (LPI) flow instruments to permit testing in accordance with IWP Inservice Testing requirements. The new instrument will be used for IWP testing and will normally be valved out.

Summary:

No USQs are created or involved with this modification. It is an enhancement to meet ASME Code requirements. No Technical Specification or UFSAR changes are required.

OE # 7435

Unit 1

Description of Change:

Per enhancement recommendations from Oconee breaker coordination calculation OSC-3120 Rev. 2 on each 125 VDC Diode/Monitor Transfer Assembly, the breaker instantaneous overcurrent trip settings are being reset to "HI" on input and output breakers.

Summary:

No USQs are created or involved with this modification. No Technical Specification changes are required. UFSAR Figures 8-5 and 8-8 will be revised to show the new settings.

OE # 7477

Unit 2

Description of Change:

The existing logic for the Unit 2 Start-up Breakers E1 and E2, fast bus transfer permissive time delay relays do not remain sealed in for all trips. If the time delay relay drops out prematurely, a fast bus transfer could take place during a time when slow bus transfer is desired. In addition, Calculation OSC-5749 has determined that the slow transfer deadtime needs to be increased. To resolve these items install an auxiliary relay to seal in the fast bus transfer permissive time relay for the Unit 2 Start-up Breakers E1-B1T-13 and E2-B2T-1. Also, the slow transfer time delay relay setting is being increased.

Summary:

No USQs are created or involved with this modification. The operational logic of the circuit is not changed. Increasing the deadtime of the slow transfer as recommended will assure load shedding occurs and the startup source does not trip for all plant conditions. No Technical Specification changes are required. UFSAR paragraph 8.3.1.1.3 will need to be revised.

OE # 7478

Unit 3

Description of Change:

The existing logic for the Unit 3 Start-up Breakers E1 and E2, fast bus transfer permissive time delay relays does not remain sealed in for all trips. If the time delay relay drops out prematurely, a fast bus transfer could take place during a time when slow bus transfer is desired. In addition, Calc. OSC-5749 has determined that the slow transfer deadtime needs to be increased. To resolve these items this modification will install an auxiliary relay to seal in the fast bus transfer permissive time relay for the Unit 3 Start-up Breakers E1-B1T-13 and E2-B2T-1. Also, the slow transfer time delay relay setting is being increased. Install an auxiliary relay to seal in the fast bus transfer permissive time relay for the Unit 3 Start-up Breakers E1-3B1T-1 and E2-3B2T-5. Also, the slow transfer time delay relay setting is increased

Summary:

No USQs are created or involved with this modification. The operational logic of the circuit is not changed. Increasing the deadtime of the slow transfer as recommended will assure loadshedding occurs and the startup source does not trip for all plant conditions. No Technical Specification changes are required. UFSAR paragraph 8.3.1.1.3 will need to be revised.

OE # 8086

Unit 2

Description of Change:

This minor modification will eliminate valve 2BS-5 and replace it with piping and flanges. The modification will reduce the probability of losing suction to the Building Spray (BS) pumps. The BS, High Pressure Injection (HPI), or Low Pressure Injection (LPI) System functions will not change by implementing this modification. All leakage requirements specified in Technical Specification 4.5.5 LPI System leakage will be maintained after the installation of this modification.

Summary:

No USQs are created or involved with this modification. No Technical Specification changes are required. UFSAR Table 6-2, Figures 6-1, 6-2 and 9-19 will be revised.

OE # 8134

Unit 2

Description of Change:

Valves FDW-315/FDW-316 Auto/Manual control circuit is revised to eliminate "pseudo-auto". This will make valve control true auto and true manual. The Turbine Driven Emergency Feedwater Pump (TDEFWP) seal-in circuit is revised to make seal-in immediate.

Summary:

No USQs are created or involved with this modification. Elimination of the "pseudo auto" signal will give the operator better control. The immediate seal-in feature will ensure that the TDEFWP will run until manually shutdown. No Technical Specification changes are required. UFSAR Sections 7.4.3.1.2 and 10.4.7.2 will be revised.

OE # 8248

Unit 2

Description of the Change:

The Bailey 880 FIF analog hardware is replaced with FTI STAR hardware in Reactor Protective System (RPS) Channels A-D, and necessary installation and testing performed pursuant to vendor information.

Summary:

No USQs are created or involved with this modification. The RPS will continue to provide all required functions as licensed and described in the UFSAR. No Technical Specification changes are required. UFSAR Table 3.68 and Sections 7.1.2.7, 7.2.2.3.2, 7.2.2.5, 7.2.3.3, 7.2.3.8, 7.4.2.3.1.2.1 and 7.4.2.3.1.2.4, and Figure 7.1 will be revised.

OE # 8311

Unit 2

Description of change:

Delete the thrust bearing wear detector (TBWD) trip and test logic from the Main Turbine/Electro Hydraulic Control (MT/EHC) system (the low bearing oil pressure trip portion off the logic will remain). Add a third pressure switch and create a 2 of 3 logic for trip on low bearing oil pressure.

Summary

No USQs are created or involved with this modification. The modification is intended to reduce unnecessary trips. No Technical Specification changes are required. UFSAR Section 10.4.6.5.1 will be revised.

OE # 8312

Unit 2

Description of modification:

Delete the high exhaust hood temperature trip signal by disconnecting the trip from the master trip bus, and the trip indication from the main turbine first out panel. Change OAC, event recorder, and statalarms as appropriate.

Summary:

No USQs are created or involved with this modification. The modification is intended to reduce unnecessary trips. No Technical Specification changes are required. UFSAR Section 10.4.6.5.1 will be revised.

OE # 8402

Unit 2

Description of Change:

Minor modification OE-8317 changed valve 2HP-27; Minor modification OE-8402 changes the operator for the same valve. These changes are being made to meet GL 89-10 requirements. The motor insulation is also being changed.

Summary:

No USQs are created or involved with this modification; no actions described in the UFSAR are changed, and no assumptions made in the evaluation of radiological consequences of an accident are affected. No Technical Specification changes are required. UFSAR Appendix 6 Tables will be revised to reflect the new operators; Section 6.3.2.6.3 will be changed to reflect the new insulation.

OE # 8444

Unit 2

Description of Change:

Plant design features will only change slightly due to electrical changes made by this modification. This modification adds a 3 pole 600 VAC 100A fused disconnect switch in series with the Bank 1 group K heaters which are cabled using a #2 AWG wire. This provides protection for the cable which was not previously provided by the Motor Control Center (MCC) 200A breaker. The added 100A disconnect will be mounted to the floor between the Silicone Control Rectifier (SCR) controller and the MCC feeding the circuit. This provides a twofold benefit. No seismic interaction and only minimal recabling.

Summary:

No USQs are created or involved with this modification; no safety-related equipment is affected and no plant procedures need to be changed. No Technical Specification or UFSAR changes are required.

OE # 8478

Unit 2

Description of Change:

Minor modification OE-8478 documents tube repairs in the 2A Steam Generator (SG). These repairs include the removal of any existing plugs which might contain defects, and install stabilizers (as necessary) and plugs as required by the results of the eddy current testing and the tube stabilization criteria document. Tube stabilization and plugging are accepted industry practices for removing heat exchanger tubes from service. Once the SG manways are closed up and secured the Reactor Coolant System (RCS) pressure boundary of the SG is intact.

Summary:

No USQs are created or involved with this modification. All of the repair components are QA condition and are no more likely to fail than the existing components. The number of tubes available continues to exceed the minimum required. No Technical Specification or UFSAR changes are required.

OE # 8479

Unit 2

Description of Change:

Minor modification OE-8479 documents tube repairs in the 2B Steam Generator (SG). These repairs include the removal of any existing plugs which might contain defects, and install stabilizers (as necessary) and plugs as required by the results of the eddy current testing and the tube stabilization criteria document. Tube stabilization and plugging are accepted industry practices for removing heat exchanger tubes from service. Once the SG manways are closed up and secured the RCS pressure boundary of the SG is intact.

Summary:

No USQs are created or involved with this modification. All of the repair components are QA condition and are no more likely to fail than the existing components. The number of tubes available continues to exceed the minimum required. No Technical Specification or UFSAR changes are required.

OE # 8551

Unit 3

Description of change:

Delete the high exhaust hood temperature trip signal by disconnecting the trip from the master trip bus, and the trip indication from the main turbine first out panel. Change Operator Aid Computer (OAC), event recorder, and statalarms as appropriate.

Summary:

No USQs are created or involved with this modification. The modification is intended to reduce unnecessary trips. No Technical Specification changes are required. UFSAR Section 10.4.6.5.1 will be revised.

OE # 8557

Unit 1

Description of Change:

The statalarm for "CRD Continuous Boron Dilute Permissive" is changed from activating when boron dilution is permitted to activating when dilution is prohibited. The associated window messages are also being changed.

Summary:

No USQs are created or involved with this modification. The change simply provides a more logical status indication (alarm means "stop" vs. alarm means "go"). No Technical Specification changes are required. UFSAR Section 15.4.1 will be revised.

OE # 8558

Unit 2

Description of Change:

The statalarm for "CRD Continuous Boron Dilute Permissive" is changed from activating when boron dilution is permitted to activating when dilution is prohibited. The associated window messages are also being changed.

Summary:

No USQs are created or involved with this modification. The change simply provides a more logical status indication (alarm means "stop" vs. alarm means "go"). No Technical Specification changes are required. UFSAR Section 15.4.1 will be revised.

OE # 8559

Unit 3

Description of Change:

The statalarm for "CRD Continuous Boron Dilute Permissive" is changed from activating when boron dilution is permitted to activating when dilution is prohibited; the associated window messages are also being changed.

Summary:

No USQs are created or involved with this modification. The change simply provides a more logical status indication (alarm means "stop" vs. alarm means "go"). No Technical Specification changes are required. UFSAR Section 15.4.1 will be revised.

OE # 8568

Units 1,2

Description of Change:

The issue raised by Problem Investigation Report PIR 5-093-0366 is that maintaining the Spent Fuel Pool (SFP) water level within the present permissible range (no lower than 2 feet below the nominal level of Elevation 840 feet 0 inches will not simultaneously allow all Standby Shutdown Facility (SSF) and spent fuel pool (SFP) design criteria to be met, for all expected SFP decay heat loads. Under certain combinations of decay heat loads and initial SFP temperatures, the simultaneous effects of inventory boil-off and SSF Reactor Coolant (RC) makeup system drawdown will lead to the SFP level dropping to below one foot above the racks in less than 72 hours. As a result, limiting conditions of operability have been established that will allow all of the SSF and SFP design criteria to be met simultaneously.

Summary:

No USQs are created or involved with this modification. The additional restrictions reduce the potential for insufficient spent fuel pool inventory. No Technical Specification or UFSAR changes are required.

OE # 8571

Unit 3

Description of Change:

Delete the thrust bearing wear detector trip and test logic from the Main Turbine/Electro Hydraulic Control (MT/EHC) system (the low bearing oil pressure trip portion off the logic will remain). Add a third pressure switch and create a 2 of 3 logic for trip on low bearing oil pressure.

Summary

No USQs are created or involved with this modification. The modification is intended to reduce unnecessary trips. No Technical Specification changes are required. UFSAR Section 10.4.6.5.1 will be revised.

OE # 8593

Units 1,2

Description of Change:

Editorial revisions were made to ensure flow diagrams matched as built conditions for the Waste Disposal Sample Hood.

Summary:

No USQs are created or involved with this modification. The changes were to flow diagrams only, and did not change the plant physically. No Technical Specification or UFSAR changes are required.

OE # 8708

Unit 3

Description of Change:

This modification will correct intermittent communication errors on certain local and remote interface modules. Error codes in programmable logic controllers (PLCs) and interface modules indicate that potential grounding problems exist. The grounding arrangement on the "square D" PLC racks and the associated fiber translators located in the main control room in 3VB1 and in Area Termination Cabinet 3 ATC1 located in the turbine building basement are being revised.

Summary:

No USQs are created by this minor wiring change to a non-safety indicator. No Technical Specification or UFSAR changes are required.

OE # 8912

Unit 2

Description of Change:

This modification will provide pressure-locking relief for valve 2LP-2 (Low Pressure Injection overpressure protection), and will eliminate the requirement for two sets of packing with leakoff line for power operated valves containing reactor coolant located in the reactor building.

Summary:

No USQs are created by this modification because all valves affected will continue to function the same, and design basis requirements will continue to be fulfilled. No Technical Specification change is required. UFSAR Section 5.2.3.10.5 will be revised to eliminate the requirement for two sets of packing.

OE # 9003

Units 1, 2, and 3

Description of Change:

Revise Design Basis Documents to credit throttling capability of valves 3LPSW-4 and 3LPSW-5, change required lake level to 793 feet, and revise the low pressure service water (LPSW) pump strainer dP limits.

Summary:

No USQs are created by this modification, because the changes ensure that adequate NPSH is available for the LPSW pumps to mitigate a design basis accident. No Technical Specification or UFSAR changes are required.

OE # 9015

Units 1, 2, and 3

Description of Change:

The existing cable providing power to Warehouse #4 has been damaged on numerous occasions and needs to be repaired or replaced. It has been arranged to feed Warehouse #4 from a retail source. The existing cable will be abandoned in place.

Summary:

No USQs are created by this modification, because the motor control center (MCC) is not safety-related, associated with a particular unit, or referenced in the UFSAR. No Technical Specification or UFSAR changes are required.

OE # 9035

Unit 2

Description of Change:

The gear ratio and motor torque on 2HP-3 (Letdown Cooler A Outlet, and Inside Containment Isolation Valve) are being increased, by modifying the valve operator, to improve valve performance under GL 89-10 requirements.

Summary:

No USQs are created by this modification, because the valve will continue to meet applicable requirements (e.g., GL 89-10). No Technical Specification changes are required. UFSAR Table 6-16 will be revised to reflect the new motor.

OE # 9178

Unit 2

Description of Change:

Per manufacturer's recommendations, a new type shaft and bearing were installed in the 2A Reactor Building Spray pump.

Summary:

No USQs are created by this modification. The pump's operation will be unaffected, and the new shaft and bearing will provide better lubrication and better reliability. No Technical Specification or UFSAR changes are required.

OE # 9261

Unit 5

Description of Change:

This editorial modification to the Standby Shutdown Facility (SSF) Diesel Support Design Basis Document increases the window of time (from 120-125 minutes to 110-125 minutes) to divert diesel service water flow to the yard drains following actuation of the SSF.

Summary:

No USQ is created by this modification. The change widens an unnecessarily tight window for operators to perform the task, while not increasing the allowed time. No UFSAR or Tech Spec changes are required.

OE # 9361

Unit 3

Description of Change:

This minor modification is one of three in a series which will ultimately provide an alternate source of suction for the Condenser Circulating Water (CCW) booster pumps. The purpose of the alternate source is to allow closing of valve 3CCW-42 for dewatering and maintenance.

Summary:

This modification will not create any USQ. Failure of the CCW Booster pump would only have economic consequences in that outage delays could be incurred. No Technical Specification changes are needed. UFSAR Figure 9-9 will be revised.

OE # 9470

Unit 1

Description of Change:

Vacuum relief valve 1PR-112 is being deleted because the vacuum level at which it was designed to provide relief cannot be attained.

Summary:

No USQ is involved, because no change is being made to the method by which the vacuum is maintained, or to the vacuum limits. UFSAR Section 9.4.7.2, Table 6-19, and Figures 6-4 and 6-25 will be revised.

OE # 9471

Unit 1

Description of Change:

Vacuum relief valve 1PR-113 is being deleted because the vacuum level at which it was designed to provide relief cannot be attained.

Summary:

No USQ is involved, because no change is being made to the method by which the vacuum is maintained, or to the vacuum limits. UFSAR Section 9.4.7.2, Table 6-19, and Figures 6-4 and 6-25 will be revised.

OE # 9472

Unit 2

Description of Change:

Vacuum relief valve 2PR-112 is being deleted because the vacuum level at which it was designed to provide relief cannot be attained.

Summary:

No USQ is involved, because no change is being made to the method by which the vacuum is maintained, or to the vacuum limits. UFSAR Section 9.4.7.2, Table 6-19, and Figures 6-4 and 6-25 will be revised.

OE # 9473

Unit 2

Description of Change:

Vacuum relief valve 2PR-113 is being deleted because the vacuum level at which it was designed to provide relief cannot be attained.

Summary:

No USQ is involved, because no change is being made to the method by which the vacuum is maintained, or to the vacuum limits. UFSAR Section 9.4.7.2, Table 6-19, and Figures 6-4 and 6-25 will be revised.

OE # 9474

Unit 3

Description of Change:

Vacuum relief valve 3PR-112 is being deleted because the vacuum level at which it was designed to provide relief cannot be attained.

Summary:

No USQ is involved, because no change is being made to the method by which the vacuum is maintained, or to the vacuum limits. UFSAR Section 9.4.7.2, Table 6-19, and Figures 6-4 and 6-25 will be revised.

OE # 9475

Unit 1

Description of Change:

Vacuum relief valve 3PR-113 is being deleted because the vacuum level at which it was designed to provide relief cannot be attained.

Summary:

No USQ is involved, because no change is being made to the method by which the vacuum is maintained, or to the vacuum limits. UFSAR Section 9.4.7.2, Table 6-19, and Figures 6-4 and 6-25 will be revised.

III Major Modifications (NSMs)

NSM-12873

Unit 1

Description of Change:

This modification adds safety-related detection circuitry to trip the main feedwater (FDW) pumps, close FDW valves to stop FDW flow, and inhibit autostart or initiate autostop of the turbine-driven emergency feedwater (EFW) pump. The modification is intended to meet the general intent, if not all the specific requirements, of Bulletin 80-04 to mitigate containment overpressurization caused by excess FDW or EFW flow.

Summary:

No USQ will be created. No new failure modes were identified, and no probabilities or consequences of any accidents were increased or created. Technical Specification changes are under development, but are not required for installation of the modification. UFSAR Sections 7.4.3.1, 10.4.6, 10.4.7, 15.13, and Figure 8-5 will be revised.

NSM-12999

Unit 1

Description of Change:

NSM-12999 replaced power batteries 1PA and 2PB, which are part of the 250 VDC Auxiliary Power System, battery racks, and associated cabling. The current practice of cross-connecting both buses of batteries between unit is revised to allow only one bus to be cross-connected, because the higher battery capacity creates a fault current which is too high for the breakers.

Summary:

No USQ will be created. The equipment is similar to that which was replaced and will perform the same functions. The equipment is non-safety, and is seismically mounted. No Technical Specification changes are needed. A change to UFSAR Chapter 16 (Selected Licensee Commitments) will describe the new batteries.

NSM-22873

Unit 2

Description of Change:

This modification adds safety-related detection circuitry to trip the main feedwater (FDW) pumps, close FDW valves to stop FDW flow, and inhibit autostart or initiate autostop of the turbine-driven EFW pump. The modification is intended to meet the general intent, if not all the specific requirements, of Bulletin 80-04 to mitigate containment overpressurization caused by excess FDW or EFW flow.

Summary:

No USQ will be created. No new failure modes were identified, and no probabilities or consequences of any accidents were increased or created. Technical Specification changes are under development, but are not required for installation of the modification. UFSAR Sections 7.4.3.1, 10.4.6, 10.4.7, 15.13, and Figure 8-5 will be revised.

NSM 22941

Unit 2

Description of Change:

The NSM makes numerous changes to the Main Steam and Heater Drain Systems. Major changes are as follows: Replace the internals/trim in valves 2MS-112 and 2MS-173. Replace the existing control systems for these valves with new digital valve controllers. Install check valves in the piping associated with the second stage reheater (SSRH) drain tanks 2A and 2B, upstream, of valves 2HD-92 and 2HD-95. Also install check valves in the piping associated with the first stage reheater (FSRH) drain tanks 2A and 2B, upstream of valves 2HD-66 and 2HD-81. Additionally, a test connection with double isolation valves is to be added upstream and downstream of the new check valves. Replace pressure switches 2HDPS0377 and 2HDPS0378. Replace the MSRH, FSRH, and SSRH drain tank normal level transmitters associated with the drain tank feedforward valves. Relocate and replace the MSRH, FSRH, and SSRH drain tank HI level transmitters. Install a drain from the heater drain piping loop seal and route to the 2A2 feedwater heater. Replace some existing heater drain sections of piping and fittings. A small connection, with an isolation valve, will be added to the piping to allow for a temporary connection of a dynamic pressure transmitter. The dynamic pressure transmitter will not be installed as part of this modification. A low point drain is to be added to the SSRH header and routed to the west condenser dump header. The drain line is to contain an air operated valve and a manual valve. Replace the control systems for the MSRH feed forward and recirculation valves with a digital valve controller. Install a drain line in the SSRH System piping low point and route to the east condenser dump header. Each leg of the drain line will be provided with a remote isolation valve and a manual isolation valve, with and associated control system that will allow automatic operation. The pipe stress analysis will be revised, with hangers added/modified as required.

Summary:

This modification does not create any adverse effects concerning the operation of the modified systems as evaluated in the UFSAR. The modification does not change the operation of the FSRHs, SSRHs, MSRHs, drain system, or

affected piping as described in the UFSAR. This modification does not create any conditions or events which lead to accidents previously evaluated in the UFSAR. The affected piping and components are non-radioactive and do not mitigate any accidents. There is no adverse effect on containment integrity and no new release paths are created. No adverse effects on the Appendix R analysis were found. No Technical Specification changes are required by this modification. No USQs are created by or involved with this modification. UFSAR figure 10-4 will be revised.

NSM-22948

Unit 2

Description of Problem:

NSM-22948 installs 3 new single phase over/under voltage relays on panel 2EB6 to detect ground faults on the Unit 2 isolated phase bus (IPB)..

Summary:

No USQ is created. The function of the IPB is unchanged. The modification will not degrade or affect the function of any safety system. No Technical Specification or UFSAR changes are necessary.

NSM-22951

Unit 2

Description of Change:

NSM-22951 installs separate fuses for the retransfer to startup circuit and the startup "S" breakers on Unit 2. Before the modification, the control power for the retransfer logic came through the same 30-amp fuses which also supply the "S" breaker close/trip logic. In this configuration, removing either circuit from service renders the other inoperable. Installing separate fuses corrects this deficiency.

Summary:

No Technical Specification of UFSAR changes are required by this modification. No USQs are created by or involved with this modification.

NSM-22975

Unit 2

Description of Change:

Stop-check valves 2HP-126, 2HP-127, 2HP-152, and 2HP-153 are removed; each is replaced with an angle check valve and a globe valve, to perform check and isolation functions, respectively.

Summary:

No USQ is created. High pressure injection (HPI) will continue to function as designed. Pipe stress analyses show the change to be acceptable. No Technical Specification changes are needed. UFSAR Section 5.0, and Figures 6-1 and 9-17 will be revised.

NSM-22976

Unit 2 __

Description of Change:

NSM-22976 changes out letdown control valve 2HP-5. The existing air-operated 2.5" Rockwell valve and actuator were replaced by a 2" Anchor Darling valve with a spring actuated closure. This modification will alleviate the need to keep the valve shut in the event of continuous air leakage.

Summary:

No USQ is created. The function of the valve remains unchanged, and the change from air to spring actuation ensures that a loss of instrument air will not degrade the ability to perform that function. No Technical Specification change is required. UFSAR Section 6.3.2 and Figure 6-16 will require revision.

NSM-22977

Unit 2

Description of Change:

Low Pressure Injection (LPI) cooler shell outlet valves (2LPSW-4 and 2LPSW-5), Reactor Coolant Pump (RCP) inlet isolation valve (2LPSW-6), and the RCP outlet isolation valve (2LPSW-15), all carbon steel valves, are replaced with stainless steel. Check valves 2LPSW-75 and 2LPSW-76 are deleted. Vent and drain lines are added to permit system draining and testing.

Summary:

No USQ is created. Each of the valves to be replaced will receive the same ESF signal as before, and will fail to the same position. The check valves that are being removed do not have a design basis or operational purpose. There are no Technical Specification or UFSAR changes needed.

NSM-22979

Unit 2

Description of Change:

NSM-22979 replaces valves 2MS-126, 2MS-127, 2AS-1. The pneumatic control loop for valves 2MS-126 and 2MS-129, located in the Turbine Building, is replaced by electronic controls in the control room.

Summary:

The new valves do not adversely affect the heat removal capability of the main steam (MS) or Emergency Feedwater Systems (EFW) Systems. Requirements for the elimination of AC dependency for the EFW System are maintained. The modification does not impact containment integrity or open any new radiological release pathways. The existing and new valves are both non-QA condition. The new valves are designed to the same design temperature and pressure as the adjoining pipe. The air and power supplies are adequate to operate valves MS-126 and MS-129. The system, with the new valves installed, is designed to still provide the functions necessary to operate the plant. Power supplies, breakers, and cabling are adequate for the new electronic circuitry. An electrical 10 CFR 50 Appendix R fire review was initiated. A review for impact to the damage control measures for an Appendix R fire, and no changes are needed. The pipe stress analysis is not adversely affected. Valve MS-126 is also sized so that the Auxiliary Steam header pressure is not overpressurized if it and valve MS-129 fail open. The existing and new instrument loops are non-QA Condition. A control board seismic review was performed and no adverse effects were found to exist. This modification involves no USQs. No UFSAR or Technical Specification changes are required.

NSM-23008

Unit 2

Description of Change:

NSM-23008 provides a permanent fix to restore the Hydrogen Recombiner System to fully operable status. This fix is a closed loop seismically qualified drainage system which collects the moisture and returns it to the Reactor Building normal sump.

Summary:

No USQ is involved. The hydrogen recombiner system is not an accident initiator. The closed loop, seismically-qualified, QA-1 nature of the system provides confidence that no negative interaction with other systems or equipment will occur. No Technical Specification change is required. UFSAR Sections 15.16.8 and 6.2, Tables 6-7 and 16.6.1, and Figures 6-9 and 15-110 need revision.

NSM-32903

Unit 3

Description of Change:

NSM-32903 replaces the 18" manual turbine bypass isolation valves with 12" isolation valves of a higher pressure class rating. In addition, the existing turbine bypass control valves are also replaced with a more reliable, controllable, leak-tight type of valve.

Summary:

No USQ is created. The turbine bypass valves (TBVs) will continue to perform their functions to mitigate S/G tube rupture events, and well as provide control during startup and shutdown. No Technical Specification changes are required. UFSAR Section 15.9.2 requires revision to reflect the revised dose calculation.

NSM-32975

Unit 3

Description of Change:

Stop-check valves 3HP-126, 3HP-127, 3HP-152, and 3HP-153 are removed; each is replaced with an angle check valve and a globe valve, to perform check and isolation functions, respectively.

Summary:

No USQ is created. The High Pressure Injection (HPI) system will continue to function as designed. Pipe stress analyses show the change to be acceptable. No Technical Specification changes are needed. UFSAR Section 5.0, and Figures 6-1 and 9-17 will be revised.

NSM-33001 Parts (AM1 and AK1)

Unit 3

Description of Change:

NSM-33001, parts AM1 and AK1, adds minimum flow lines around each Low Pressure Service Water (LPSW) pump. The discharge from each pump will not be returned to its own suction supply. A local flow rate indicator is installed in each minimum flow line for testing purposes.

Summary:

No USQ is created. The LPSW System will continue to provide adequate cooling water to both normal and accident mitigating equipment. There are no Appendix R or containment integrity issues, and no new release pathways created. No Technical Specification or UFSAR changes are required.

NSM-33001 (Part CL1)

Unit 3

Description of Change

NSM 33001, part CL1, deleted the controls for valve 3LPSW-45. New controls were added for the valve on control board 3VB3, and valve 3LPSW-45 was renumbered to 3LPSW-139. The renumbering is to make Unit 3 consistent with Units 1 and 2.

Summary

No adverse effects to cooling provided to the normal Low Pressure Service Water (LPSW) loads is created, so a loss of LPSW cooling loads is not more likely to occur. The valve is a seismic boundary valve and is used to isolate the LPSW non-essential header following certain design basis accidents. The valve will remain a remotely operable seismic boundary valve and can still be used to isolate the non-essential header following accidents and design events. The LPSW system will still provide cooling water to accident mitigation equipment. The mitigation of an Appendix R fire is not adversely affected. Containment integrity is not degraded. No new release pathways are created. The new controls are QA-1 and seismically designed, except for one cable that provides valve indication to the non-safety operator aid computer. The power source is 1E (safety related). The power source and cables from the power source did not change. Non-safety-related/safety-related electrical interfaces are QA-1 and seismically designed. The QA-1 equipment is qualified for the mild environment. A control board seismic review was performed. The location of the new seismically qualified equipment (cables, etc.) was reviewed for impact of non-seismic SSC interactions and no concerns were identified. In addition, the impact of non-seismically qualified components on existing seismically designed components was reviewed and no adverse effects were found.

Summary:

This modification involves no USQs or safety concerns. No Technical Specifications need to be changed. UFSAR Sections 9.2.2.2.3 and Figure 9-11 need to be revised to change the valve number from 3LPSW-45 to 3LPSW-139.

NSM-33008

Unit 3

Description of Change:

NSM-23008 provides a permanent fix to restore the Hydrogen Recombiner System to fully operable status. This fix is a closed loop seismically qualified drainage system which collects the moisture and returns it to the Reactor Building normal sump.

Summary:

No USQ is involved. The hydrogen recombiner system is not an accident initiator. The closed loop, seismically-qualified, QA-1 nature of the system provides confidence that no negative interaction with other systems or equipment will occur. No Technical Specification change is required. UFSAR Sections 15.16.8 and 6.2, Tables 6-7 and 16.6.1, and Figures 6-9 and 15-110 need revision.

NSM-52950

Unit 1,2,3

Description of the Change:

NSM-52950 added three Capacitor Coupled Voltage Transformers (CCVTs) in the 230KV switchyard for the Degraded Grid Protection (DGP) System. An additional 2 out of 3 logic scheme is added to the DGP logic, with associated new relays. The logic changes will require addition of new relays. Existing red and yellow bus CCVTs for the External Grid Trouble Protection System will also be replaced.

Summary:

No USQ is created. The CCVTs and new relays are QA Condition 1 and mounted as QA-1. There are no concerns about seismic equipment interacting with the CCVTs or relays. The logic will continue to provide alarm and isolation functions. Appendix R has been considered, and the equipment is in a mild environment. No Technical Specification change is needed. UFSAR Section 8.2.1.3.1 and Table 3-68 will be revised.

NSM-52959

Unit N/A

Description of Change:

NSM-52959 will add the third phase of horizontal storage modules (HSMs) to provide for continued dry storage of spent fuel discharged from Oconee's reactors. The scope of this NSM covers receipt, assembly, installation, and alignment of twenty HSMs of the NRC-approved VECTRA general license "Standardized" NUHOMS 24-P design. This evaluation addresses Parts BS-1 and BL-1 of NSM-52959, which provides for installation of the first eight vacant modules, complete with temperature monitoring equipment.

Summary:

No USQ is created. The installation of prefabricated HSMs does not increase the probability of any accident considered in the ISFSI or Oconee UFSARs, nor does it create any new ones. No margins of safety are decreased, nor occupational exposures significantly increased. No plant or ISFSI Technical Specification changes are required. The plant UFSAR Sections 1.2.2.8, 9.1.4.2.3, and 15.11.3 will be changed to reflect the new General License system.

NSM-52966

Units 1,2,3

Description of Change:

Part CL-1 of NSM-52966 removes logic that originally was designed to protect the Keowee generator breakers from a decrease in operating air pressure and provides new alarms and indications of breaker air pressure. (Low air pressure can cause a decrease in arc suppression capability.) Parts AL-1 and BL-1 of NSM-52966 will receive (or which have received) NRC review.

Summary:

No USQ will be created. The new QA-1 pressure switch has closer tolerances and will allow a higher setpoint, thus allowing more time to correct a decreasing air pressure situation. The Keowee Hydro station provides emergency power to Oconee, and is not the initiator of any accident. No Technical Specification changes are needed. UFSAR Section 8.3 will need to be revised.

IV. Operability Evaluations/PIPS

Operability:

PIP No. 96-0603

Unit 3

Description of Change:

This evaluation is for a degraded but operable condition on Power Range Nuclear Instrument 8 (NI-8) on Unit 3. NI-8 was changed out prior to startup under a corrective work request. Despite successful installation and testing, NI-8 was being considered inoperable until it had been thoroughly monitored through out its initial startup evolution. However, due to subsequent spurious trips occurring on Reactor Protective System (RPS) channel "C" (NI-7), NI-8 will be considered operable and able to perform trip functions during the power escalation hold points to calibrate the power range NIs.

Summary:

No Technical Specification of UFSAR changes are required by this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 95-0922

Units 1,2,3

Description of Change:

Power for the Hydrogen Recombiners may not be available from Keowee Hydro Station after a LOCA/LOOP event. During the Technical Specification Change process to add the recombiner to the Oconee Licensing Basis, power supplies capable of being powered from Keowee through manual breaker manipulations were described. Permanent power supplies for the recombiner have been moved to sources that may not be available after a LOOP. This USQ evaluation documents that a modification to supply temporary power after the LOCA/LOOP would not present an unreviewed safety question.

Summary:

No Technical Specification or UFSAR changes are required by this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 96-0232

Units 1,2,3

Description of Change:

Revise UFSAR to address flexible hose drainage system temporary modification to the Hydrogen Recombiner System.

Summary:

While the system will not satisfy all of the existing criteria, it will perform its safety function. Under the short term, actions taken to modify the system and make it able to perform its intended function, the UFSAR, Technical Specification and SER requirements for the Containment Hydrogen Recombiner System (CHRS) are met. There will be no adverse effect on any of the UFSAR evaluated SSCs, and no new credible failure modes or accidents will be introduced as a result. UFSAR Chapter 15.16 will be revised. No Technical Specification changes are required for this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 96-0229

Unit 1

Description of Change:

Revise UFSAR to address spurious actuation of 1HP-275 or 1HP-276 during Appendix R event which could result in Reactor Coolant system (RCS) leakage rates greater than the makeup capabilities of the SSF Reactor Coolant (RC) makeup system.

Summary:

No Technical Specification or UFSAR changes are required by this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 96-0544

Units 1,2,3

Description of Change:

During an accident which requires operation of the SSF Reactor Coolant (RC) makeup system, valves 1/2/3HP-3 and 1/2/3HP-4 are closed from the SSF to isolate the letdown line flow path from the Reactor Coolant System (RCS). Isolating the letdown line is necessary to prevent a loss of RCS inventory. Excessive RCS inventory loss during an SSF event would result in a loss of RCS natural circulation flow.

PIP 1-096-0544 identified that valves HP-3 and HP-4 will not close against the D/Ps which would be present when the SSF is activated. In order to allow valves HP-3 and HP-4 to close when the SSF is activated, the SSF Abornmal Procedure (AP) will be revised to require valve HP-5 to be closed from the Main Control Room prior to activating the SSF RC makeup system. Closing HP-5 will eliminate the D/P across valves HP-3 and HP-4 when they are closed from the SSF.

Summary:

No Technical Specification or UFSAR changes are required by this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 96-0832

Units 1,2,3

Description of Change:

This review documents the Containment Hydrogen Recombiner System (CHRS) operable, but degraded, evaluation related to use of a temporary surveillance and pump casing coating on the drainage system for all Oconee units. It was determined that if the CHRS is put into operation to draw gases from the post-accident containment atmosphere, some of the moisture laden hot air will condense as it passes through hundreds of feet of convoluted piping to the recombiner. This condensate will collect in the recombiner piping low points forming loop seals which may cut off flow to the recombiner, rendering it inoperable. Temporary modifications (TMs) and operating procedure changes for each unit provide a short term fix to restore the CHRS to an operable but degraded status.

Summary:

UFSAR Chapter 15.16 will need to be revised. No Technical Specification changes are required for this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 96-0347

Units 1,2,3

Description of Change:

The fire penetration seal barriers filled with the 3M Company CP-25 or Putty 303 material have been evaluated acceptably for use at Oconee Nuclear Station. The installation and inspection procedures insure that current penetration configurations with the above evaluated products meets the acceptance criteria to provide adequate fire protection equal to that of the fire wall rating for which it is installed. We are "OPERABLE BUT DEGRADED", because inspection procedures insure that all penetration seal assemblies currently installed meet the configurations described in this evaluation. The penetration assemblies are degraded because engineering judgement is used to determine the heat transfer characteristics in evaluating the test configurations to actual configurations.

Summary:

No Technical Specification or UFSAR changes are required by this evaluation. No USQs are created by or involved with this valuation.

Operability:

PIP No. 96-0583

Unit 3

Description of Change:

Re-analysis of the Main Feedwater piping identified several pipe supports, which were exceeding Code allowables under seismic loads. A 0.5 percent critical damping value is specific for vital piping analysis (UFSAR Section 3.7.3.11) However, Regulatory Guide 1.61 allows for higher damping values. The pipe supports are within Code allowables using the seismic loads generated using the damping values from Reg. Guide 1.61. Therefore, the Main Feedwater System will continue to perform its intended function during and after a seismic event. The Main Feedwater system is classified as "Operable But Degraded" because Reg. Guide 1.61 Damping values were used instead of those given UFSAR 3.7.3.11.

Summary:

No Technical Specification of UFSAR changes are required by this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 96-0222

Unit 1

Description of Change:

This review documents the Containment Hydrogen Recombiner System (CHRS) operable, but degraded, evaluation related to use of a temporary drainage system on Unit 1. On February 1, 1996, it was determined that if the CHRS is put into operation to draw gases from the post-accident containment atmosphere, some of the moisture laden hot air will condense as it passes through hundreds of feet of convoluted piping to the recombinder. This condensate will collect in the recombinder piping low points forming loop seals which may cut off flow to the recombinder, rendering it inoperable. Temporary modifications (TMs) and operating procedure changes for each unit provide a short term fix to restore the CHRS to an operable but degraded status. A workable drainage arrangement has been installed to funnel the accumulated moisture via the low pressure injection (LPI) system back to containment.

Summary:

UFSAR Chapter 15.16 will be revised. No Technical Specifications are required for this evaluation. No USQs are created by or involved with this evaluation.

Operability:

PIP No. 95-1307

Units 1,.2.3

Description of Change:

The Operable But Degraded condition of the Upper Surge Tanks is documented in PIP 0-95-1307. Tanks were qualified for a horizontal maximum hypothetical earthquake (MHE) acceleration of .43 gs in calculation OSC-11. Using the current Turbine Building Response Spectra found in specification OS-027B.00-0002 for 2% structural damping and 2% component damping, gives an acceleration of 1.104 g's. However, use of Regulatory Guide 1.61 and the Generic Implementation Procedure reduces this conservative value of acceleration to .417 g's. Therefore, the Upper Surge Tanks will continue to perform their intended function during and after a MHE.

Summary:

No Technical Specification or UFSAR changes are required by this evaluation. No USQs are created by or involved with this evaluation.

V. Calculations

Calculation OSC-6584

Units 1,2,3

Description of Change:

The purpose of this calculation is to show that there are no unreviewed safety questions regarding the use of a new type of rod shearing fixture on 8 failed Mk-B fuel rods in the spent fuel pools at Oconee Nuclear Station during the hot cell examination being performed by the B&W Owner's Group Core Performance Committee.

Summary:

No Technical Specification of UFSAR changes are required by this calculation change. No USQs are created by or involved with this calculation change.

Calculation COM-208.00-00-0001

Units 1,2,3

Description of Change:

This evaluation covers the utilization of a vendor supplied computer software called MathCad in performing Engineering analysis and computations on Safety Related Systems, Structures and Components.

Summary:

No Technical Specification or UFSAR changes required by this calculation change. No USQs are created by or involved with this calculation change.

Calculation OSC-6794

Units 1,2,3

Description of Change:

This analysis determined that there were no unreviewed safety questions for substituting a Mk-B8 natural uranium replacement rod for Mk-B9 or Mk-B10 fuel rod. The effects, on power distribution, due to fuel assembly reconstitution, are evaluated as part of the normal reload analysis process to ensure that the fuel does not violate the mechanical and thermal limits. Therefore, fuel assembly reconstitution will not violate the Technical Specifications or the information provided in the UFSAR.

Summary:

No Technical Specification or UFSAR changes required by this calculation change. No USQs are created by or involved with this calculation change.

Calculation OSC-6684/UFSAR change 96-052

Units 1,2,3

Description of Change:

Revision to the Oconee UFSAR Chapter 3 to reference proper NRC approval of Topical Reports and associated for dynamic analysis of fuel assemblies.

Summary:

UFSAR Sections 3.9.2 will be revised. No Technical Specification changes will be needed for this calculation change. No USQs are created by or involved with this calculation change.

Calculation OSC-6581

Units 1,2,3

Description of Change:

OSC-6581 evaluates removal of references to reload reports in Chapter 4 of the Oconee UFSAR since reload reports are only generated when NRC review and approval is required.

Summary:

UFSAR sections 4.4.2, 4.4.3 and Table 4-1 will be revised. No Technical Specification changes will be needed for this calculation change. No USQs are created by or involved with this calculation change.

VI. Temporary Station Modifications (TSMs)

TSM-1263

Unit 2

Description of Change:

TSM-1263 disabled the Main Feedwater Pump (MFDWP) discharge pressure switches for the Unit 2 Reactor Protective System (RPS) and Emergency Feedwater (EFDW) circuitry. This feature was deleted based on trip reduction studies and industry recommendations.

Summary:

No Technical Specification or UFSAR changes required by this calculation change. No USQs are created by or involved with this calculation change.

TSM-1238

Unit 3

Description of Change:

TM-1238 will provide a temporary fix to restore the Unit 3 Containment Hydrogen Recombiner System (CHRS) to an Operable But Degraded status. A workable drainage arrangement will be installed to remove moisture that can accumulate in the CHRS piping low points during system operation.

Summary:

UFSAR chapter 15.16 will be revised. No Technical Specification changes will be needed for this modification. No USQs are created by or involved with this modification.

TSM-1239

Unit 1

Description of Change:

TM-1239 will provide a temporary fix to restore the Unit 1 Containment Hydrogen Recombiner System (CHRS) to an Operable But Degraded status. A workable drainage arrangement will be installed to remove moisture that can accumulate in the CHRS piping low points during system operation.

Summary:

UFSAR Chapter 15.16 will be revised. No Technical Specifications changes will be needed for this modification. No USQs are created by or involved with this modification.

TSM 1263

Unit 2

Description of Change:

The purpose of this evaluation is to determine if bypassing the low Main Feedwater Pump (MFDWP) discharge pressure switches so that they will not actuate ARTS (Anticipatory Reactor Trip System) or Emergency Feedwater (EFW) and will not create any Unreviewed Safety Questions (USQ). This temporary station modification (TSM) will jumper the Unit 2 MFDWP discharge pressure switches for the Reactor Protection System (RPS) and EFW start circuitry. These jumpers will effectively disable the start of EFW pumps and the trip of the RPS channels on low MFDWP discharge pressure.

Summary:

The RPS and EFW systems will continue to meet their design basis functions. Operation with the MFDWP discharge pressure switches "jumpered", for RPS and EFW, will not create any Unreviewed Safety Questions. Technical Specifications no longer require the use of the MFDWP discharge pressure switches in the RPS and EFW auto initiation circuit. UFSAR sections 7.2.2.3.8, 7.4.3 and 10.4.7 will be revised when the permanent station modifications are implemented to delete the MFDWP discharge pressure switches. No changes to the UFSAR will be required by his temporary modification.

TSM-1298

Unit 1

Description of Change:

The purpose of this evaluation is to determine if bypassing the low Main Feedwater Pump (MFDWP) discharge pressure switches so that they will not actuate ARTS (Anticipatory Reactor Trip System) or Emergency Feedwater (EFW) and will not create any Unreviewed Safety Questions (USQ). This temporary station modification (TSM) will jumper the Unit 2 MFDWP discharge pressure switches for the Reactor Protection System (RPS) and EFW start circuitry. These jumpers will effectively disable the start of EFW pumps and the trip of the RPS channels on low MFDWP discharge pressure.

Summary:

No Technical Specification or UFSAR changes are required by this modification. No USQs are created by or involved with this modification.

TSM-1299

Unit 3

Description of Change:

The purpose of this evaluation is to determine if bypassing the low Main Feedwater Pump (MFDWP) discharge pressure switches so that they will not actuate ARTS (Anticipatory Reactor Trip System) or Emergency Feedwater (EFW) and will not create any Unreviewed Safety Questions (USQ). This temporary station modification (TSM) will jumper the Unit 2 MFDWP discharge pressure switches for the Reactor Protection System (RPS) and EFW start circuitry. These jumpers will effectively disable the start of EFW pumps and the trip of the RPS channels on low MFDWP discharge pressure.

Summary:

No Technical Specification of UFSAR changes required by this modification. No USQs are created by or involved with this modification.

VII. Technical Specification Interpretations (TSIs)

TSI 3.8.6, 3.8.7, 3.8.12

Units 1,2,3

Description of Change:

This revision to the Technical Specification Interpretation would allow penetrations to be temporarily opened for draining, allowing direct access from the containment atmosphere to the outside atmosphere, during a local leak rate test.

Summary:

No Technical Specification or UFSAR changes are required by this bases change. No USQs are created by or involved with this bases change.

TSI Figure 3.5.2-16c

Unit 1,2,3

Description of Change:

Revise Figure 3.5.2-16c in the Technical Specification Bases to include the LOCA limits for Mark B10 fuel at higher burnup values.

Summary:

No Technical Specification or UFSAR changes required by this modification. No USQs are created by or involved with modification.

VIII. Changes to Selected Licensee Commitments (SLCs)

SLC Revision 95-07

Units 1,2,3

Description of Change:

Selected Licensee Commitment 16.8.5 provides specific time requirements for various actions associated with locating DC grounds on the 125 VDC Vital Instrument and Control System. When a ground alarm is received, SLC 16.8.5 requires that the DC buses be isolated and the magnitude of the ground be determined within 8 hours. Further response to locate the source of the ground is dependent on the magnitude. The SLC allows increasingly longer time intervals to find the ground for increasing ground resistance. If the ground is not located within the specified time period, the SLC requires that an engineering review be performed to evaluate the possible effects of the ground.

Summary

This SLC provides requirements for assessing and locating grounds within certain periods of time based on their severity. It has been evaluated for the presence of USQs. No USQs have been found. The addition of a SLC is a change to the UFSAR. No additional changes to the UFSAR, or any Technical Specification, is required.

SLC Revision 96-01

Units 1,2,3

Description of Change:

As a result of deficiencies corrected in OSC-2280, "LPSW NPSHA and Minimum Required Lake Level," a more restrictive minimum Keowee Lake level is required to assure adequate NPSH to the Low Pressure Service Water (LPSW) pumps during a design basis accident. The errors affect the minimum required Keowee lake level in SLC 16.9.7.

Summary:

No Technical Specification changes are required by this SLC change. No USQs are created by or involved with this SLC change.

SLC Revision 96-02

Units 1,2,3

Description of Change:

The words "control room indicator" will be removed and "hydrogauge digital counter reading" will be inserted and "computer point" will be changed to "computer points" in NOTE in SLC 16.9.7. This change allows operators to rely on more accurate indication than currently exists, and increases confidence the operator has in actual lake level. Lake level is indication only and has no controlling functions over equipment.

Summary:

No Technical Specification changes are required by this SLC change. No USQs are created by or involved with this SLC change.

SLC Revision 96-05

Units 1,2,3

Description of Change:

A new SLC was created to prescribe the minimum allowable condensate inventory stored in the Upper Surge Tanks and the Condenser Hotwell.

Summary:

No Technical Specifications changes are necessary. UFSAR Section 16.0 (Table of Contents) will be revised. No USQs are created by or involved with this SLC.

SLC Revision 96-06

Units 1,2,3

Description of Change:

This change to SLC 16.9.9 will assure an understanding that the Main Steam Atmospheric Dump Valves (MSADV) are required for operability of the Auxiliary Service Water System and provide the MSADV surveillance requirements. The additional description is being pursued as a result of an evaluation of the Site Maintenance Rule Program requirements, which state that all Risk Significant System Functions shall have an associated Technical Specification or SLC to monitor system unavailability. The clarification will better ensure the specific monitoring (of unavailability) of this risk significant function.

Summary:

UFSAR Section 16.9.9 needs to be revised. No Technical Specifications will be revised for this SLC. No USQs are created by or involved with this SLC.

SLC Revision 96-07

Units 1,2,3

Description of Change:

SLC 16.9.8a states new commitments for the High Pressure Service Water (HPSW) system functions used to provide cooling water to the Turbine Driven Emergency Feedwater Pump (TDEFWP) and the High Pressure Injection Pump Motor Coolers for the purpose of Maintenance Rule Risk Assessment. This SLC is being pursued as a result of an evaluation of the Site Maintenance Rule Program requirements, which state that all Risk Significant System Functions shall have an associated Technical Specification or SLC to monitor system unavailability. The clarification will better ensure the specific monitoring (of unavailability) of this risk significant function (HPSW System Integrity and Operability for Loss of LPSW Scenario) by way of System Operability.

Summary:

SLC (UFSAR) Section 16.9.8a will be added. No Technical Specifications will be revised for this SLC. No USQs are created by or involved with this SLC.

SLC Revision 96-08

Units 1,2,3

Description of Change:

SLC 16.8.6 states new and more detailed requirements for the Lee/Central Alternate Power System beyond those stated in Technical Specification for the purpose of Maintenance Rule Risk Assessment. This SLC is being pursued as a result of an evaluation of the Site Maintenance Rule Program requirements, which state that all Risk Significant System Functions shall have an associated Technical Specification or SLC to monitor system unavailability. The clarification will better ensure the specific monitoring (of unavailability) of this risk significant function (Lee/Central Power System) by way of System Operability.

Summary:

SLC Section 16.8.6 will be revised. No Technical Specifications will be revised for this SLC. No USQs are created by or involved with this SLC.

SLC Revision 96-09

Units 1,2,3

Description of Change:

SLC 16.9.10 states new commitments for the Component Cooling and HPI Seal Injection Systems with regard to their functions for RCP seal protection for the purpose of Maintenance Rule Risk Assessment. This SLC is being pursued as a result of an evaluation of the Site Maintenance Rule Program requirements, which state that all Risk Significant System Functions shall have an associated Technical Specification or SLC to monitor system unavailability. The clarification will better ensure the specific monitoring (of unavailability) of this risk significant function (Lee/Central Power System) by way of System Operability.

Summary:

SLC Section 16.9.10 will be revised. No Technical Specifications will be revised for this SLC. No USQs are created by or involved with this SLC.

SLC Revision 96-10

Units 1,2,3

Description of Change:

SLC 16.9.11 states new commitments for the Condenser Circulating Water System functions used for Turbine Building Flood Protection for the purpose of Maintenance Rule Risk Assessment. The additional description is being pursued as a result of an evaluation of the Site Maintenance Rule Program requirements, which state that all Risk Significant System Functions shall have an associated Technical Specification or SLC to monitor system unavailability. The clarification will better ensure the specific monitoring (of unavailability) of this risk significant function (CCW System Integrity and Operability for Turbine Building Flood Mitigation) by way of System Operability.

Summary:

SLC Section 16.9.11 will be revised. No Technical Specifications will be revised for this SLC. No USQs are created by or involved with this SLC.

SLC Revision 96-11

Units 1,2,3

Description of Change:

This SLC places restrictions on the Keowee Hydro Units during periods of commercial power generation.

Summary:

No Technical Specification changes are required by this SLC. No USQs are created by or involved with this SLC.

IX. Updated Final Safety Analysis Report Changes

UFSAR Change (OE # 9346)

Unit 1,2,3

Description of Change:

A description of the Standby Shutdown Facility (SSF) Auxiliary Service Water (ASW) flow instrumentation is added to the UFSAR.

Summary:

This change to UFSAR Section 9.6 provides a description of existing SSF ASW flow instrumentation; therefore, no USQ is created. No change to Technical Specifications is required.

UFSAR Change: 96-010

Unit 1,2,3

Description of Change:

Revisions to Section 12-4.5.1 to clarify/correct statements about types of lab/portable instruments in use.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 12-4.5.1 will be revised.

UFSAR Change: 96-011

Units 1,2,3

Description of Change:

The Hays Gas Analyzers installed on Units 1/2 and Unit 3 have become outdated. Design study ONDS-0332 was completed in August of 1993 and recommended removal of the Hays Gas Analyzers. Technical Specification compliance is maintained using manual sampling of the waste gas drain tank (WGDT). The manual sampling is performed by Chemistry personnel drawing a sample bomb from the in service WGDT and analyzing the contents on a gas chromatograph in the Chemistry Lab. Both the Unit 1/2 analyzer and Unit 3 analyzer no longer function and spare parts are not available.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 9.3.1.2.1 will be revised.

UFSAR Change: 96-012

Unit 1,2,3

Description of Change:

UFSAR Figure 9-10 will be changed to reflect the plant as-built configuration and Design Basis of the HPSW System.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Figure 9-10 will be revised.

UFSAR Change: 96-017

Units 1,2,3

Description of Change:

Changes to Section 7.7.4.1 consist of : 1) changing location of PABX communication system from the Administrative Annex to the Oconee Office Building 2) due to the expansion of the phone system at Oconee, some public address systems are accessed via a three digit code instead of a two digit code, therefore, the wording has been changed to say accessible by dial an access code 3) added "outages" as a use for the radio transmitter/receiver system between the control room and reactor building.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 7.7.4.1 will be revised.

UFSAR Change: 96-018

Units 1,2,3

Description of Change:

UFSAR, Section 12.4.3 contains a paragraph that inaccurately describes the locations of janitor sinks in the Auxiliary Building. It currently states that there are sinks on each level of the Auxiliary Building when, in fact, they are only on the second, third and sixth floors. This change will be made to reflect the correct sink locations.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 12.4.3 will be revised.

UFSAR Change: 96-020

Units 1,2,3

Description of Change:

This change corrects a minor discrepancy in the description of the PALSS system regarding the use of sampling paths.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 9.3.6.1.3 will be revised.

UFSAR Change: 96-022

Units 1,2,3

Description of Change:

UFSAR Section 11.4 "Solid Waste Management System" is being changed as follows: 1) Evaporator concentrates are no longer produced at Oconee and its description is being removed, 2) Remove specific description of solid radioactive wastes. Added reference to the 10 CFR Part 61 Classification and Waste Form Implementation Program, which contains specific descriptions of solid wastes. A description of the Duke's Process Control program manual is being added. The description of shipping destinations is being expanded to include processors, state or NRC licensed disposal facility.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 11.4 will be revised.

UFSAR Change: 96-023

Units 1,2,3

Description of Change:

Delete references to evaporation and recycle as waste processing options. Specify that the Radwaste Facility is the primary liquid waste processing facility. Change references to Interim Radwaste Building to reflect current operating practices.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 11.2 will be revised.

UFSAR Change: 96-026

Units 1,2,3

Description of Change:

UFSAR Section 2.4.13 is revised to reflect updated groundwater monitoring procedures, as documented in SLC, the NPDES Permit, and the Oconee Landfill Permit.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 2.4.13 will be revised.

UFSAR Change: 96-027

Units 1,2,3

Description of Change:

This change is to clarify Section 11.6 Radwaste Facility description. This section describes the Radwaste Facility as having NRC approved systems capable of processing liquid and solid radioactive waste by means of demineralization, evaporation, filtration. Even so, Duke has determined the processing of dry activated waste and Resin Waste by use of the Radwaste Incinerator is not cost effective, therefore, the systems are not used and maintained in "lay up" condition. The UFSAR also presently describes the Radwaste Facility using future tense verbs, as if the systems, structures, and components were not yet built or operational. The description given by the present section is not accurate in that the Radwaste Facility was declared fully operational in 1987. The future tense wording should be replaced with the present tense.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 11.6 will be revised.

UFSAR Change: 96-029

Unit 1

Description of Change:

This temporary test procedure will start the 1B reactor building cooling unit (RBCU) fan in HIGH while the other two RBCU fans are also operating in HIGH. In the past, operating procedures have prevented this alignment because of concerns with overpressurizing RBCU duct and history of the third fan failing to start due to high speed thermal overloads tripping on excessive startup current. If the 1B RBCU fan is started successfully then LPSW will be valved into the 1B cooler and all three trains will remain in operation to provide RB cooling.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Sections 6.2.2.2, 9.2.2.2.3 and 9.4.6.2 will be revised.

UFSAR Change: 96-030

Units 1,2,3

Description of Change:

Section 5.2.3.12.4 is changed to update references to ASME Section XI, to include a reference to Duke's Inservice Inspection program, and identify additional test techniques which may be used. This change is due to a more recent version of Section XI which is now appropriate.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 5.2.3.12.4 will be revised.

UFSAR Change: 96-031

Units 1,2,3

Description of Change:

This change is to clarify the description of Breathing Air System for Oconee in UFSAR Section 9.5.2.2.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Section 9.5.2.2 will be revised.

UFSAR Change: 96-033

Unit 1,2,3

Description of Change:

Clarify Table 9-4 by adding a note explaining the origin and purpose of the tabular information. Clarify Section 9.2.2.1 by removing references to normal operation from sentences which describe the requirement for cooling water systems to be designed to withstand a single failure in the accident mode.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Table 9-4 and Section 9.2.2.1 will be revised.

UFSAR Change: 96-036

Units 1,2,3

Description of Change:

Revise UFSAR Chapter 15.16. Two major areas of the UFSAR are involved with this change. The most significant change is to the hydrogen generation rate. Due to the inclusion of aluminum into post-LOCA hydrogen generation analysis, the time to reach the lower flammability limit of hydrogen has significantly decreased. This change revises time available before hydrogen control is required. The other change is the removal of the analysis of the Reactor Building Hydrogen Purge System (RBHPS). Conservative calculations estimate that dose rates around the RBHPS filter cart during a Design Basis Event will be prohibitively high and therefore, the RBHPS will not be used as a backup to the recombiners.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Chapter 15.16 will be revised.

UFSAR Change: 96-037

Units 1,2,3

Description of Change:

Revise sections 3.2.2.1 and 3.2.2.2 of the UFSAR. These revisions are being made to clarify the date when ASME Class I fatigue analyses must be complete on the Class I portion of the connecting piping to the Reactor Coolant System (RCS), and to clarify the requirement for modifications on these piping systems prior to the completion of the Class I fatigue analyses to address the impact they have on thermal fatigue.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR sections 3.2.2.1 and 3.2.2.2 will be revised.

UFSAR Change: 96-038

Units 1,2,3

Description of Change:

This activity clarifies UFSAR Sections 3.9.3.4.2.1.3, 3.9.3.4.2.2 and Table 3-63. Allowable stresses for welds made with electrodes other than E60XX are being added to section 3.9.3.4.2.1.3. Section 3.9.3.4.2.2 is being revised to clarify how snubber hot and cold position settings are determined, as well as how the design loads are determined for snubbers.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR sections 3.9.3.4.2.1.3, 3.9.3.4.2.2 and Table 3-63 will be revised.

UFSAR Change: 96-039

Units 1,2,3

Description of Change:

Delete reference to the radwaste incinerator in the UFSAR to clarify the fact that the incinerator is no longer used at Oconee Nuclear Station.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR section 11.3.1 will be revised.

UFSAR Change: 96-040

Units 1,2,3

Description of Change:

This UFSAR section is being revised to incorporate changes identified during a review of Sections 2.1 and 2.2 which was initiated to ensure the accuracy of information. Both sections give descriptive information about the site and the geography of the area surrounding the site.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Sections 2.1 and 2.2 will be revised.

UFSAR Change: 96-042

Units 1,2,3

Description of Change:

Correct errors in Sections 6.2.1.1 through 6.2.1.5 as follows:

Editorial corrections, latest Duke containment analyses, change reactor building spray (RBS) setpoint per recent Technical Specification revision, correct old misconception that RBS and the Reactor Building Cooling System (RBCS) are redundant. NRC approved analysis methods show otherwise, delete incorrect out-of-date boron dilution analysis and replace with current valid analysis using NRC approved method and simple calculations.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Sections 6.2.1.1 through 6.2.1.5 will be revised.

UFSAR Change: 96-043

Units 1,2,3

Description of Change:

Correct all known errors in Chapter 15 as follows:

New reload-typical numbers added, editorial corrections, add 2-pump coastdown, update LOCA kw/ft limits, delete Emergency Feedwater (EFW) start on low Main Feedwater (MFW) pump discharge pressure, correct text for a reanalysis which revises out-of-date UFSAR text, add the AMSAC-related scope of EFW actuation.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Chapters 6, 10, and 15 will be revised.

UFSAR Change: 96-044

Units 1,2,3

Description of Change:

The revisions to Chapter 2, Figures 2-52, 2-54, 2-66 through 2-116 and UFSAR Table 3-68 only clarifies information or adds updated references.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Chapter 2, Figures 2-52, 2-54, 2-66 through 2-116, and UFSAR Table 3-68 will be revised.

UFSAR Change: 96-047

Units 1,2,3

Description of change:

Editorial changes in phrases requiring further evaluation and/or rewording to ensure their accuracy as a result of review of Sections 10.3 and 10.4 of the UFSAR.

Summary

No Technical Specification changes are required by this change. No USQs are created by or involved with this modification. UFSAR Sections 10.3.1, 10.3.2, 10.3.3, 10.4.5.2 will be revised.

UFSAR Change: 96-048

Units 1,2,3

Description of Change:

Move statement located in UFSAR Section 7.2.2.3.2 (Nuclear Over Power Trip Based on Flow and Imbalance) to the appropriate location in Section 4.3.5.1.2. The statement addresses the use of Type C Control rod drive mechanisms on Oconee Unit 3.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR Sections 7.2.2.3.2 and 4.3.5.1.2 will be revised.

UFSAR Change: 96-049

Units 1,2,3

Description of Change:

Revise Section 9.2.2.2.3 to reflect that High Pressure Service Water (HPSW) pumps are not credited to mitigate a design basis accident/event.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this modification. UFSAR Section 9.2.2.2.3 will be revised.

UFSAR Change: 96-053

Units 1,2,3

Description of Change:

Revised section 4.4 for Statistical Core Design (SCD) methodology. Added SCD reference to section 4.4.5. Added SCD critical heat flux correlation limit to Table 4-14. These revisions were made due to changes in analysis methods which are described in DPC-NE-2005P-A, Duke Power company Thermal-Hydraulic SCD Methodology.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this change. UFSAR section 4.4 will be revised.

UFSAR Change: 96-054

Units 1,2,3

Description of Change:

Section 5.2.3.20.2 "Maximum Reactor Coolant Activity", shows old terminology of "MPC (maximum permissible concentration)". This should be changed to "EC (effluent concentration)" to reflect the current terminology of 10CFR20.

Summary:

No Technical Specification changes are required by this change. No USQs are created by or involved with this modification. UFSAR Section 5.2.3.20.2 will be revised.