

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9607010378 DOC. DATE: 96/06/27 NOTARIZED: NO DOCKET #
 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287

AUTH. NAME AUTHOR AFFILIATION
 HAMPTON, J.W. Duke Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Forwards descriptions of facility changes, tests & experiments, completing 10CFR50.59 annual rept for Jan-Dec 1995.

DISTRIBUTION CODE: IE47D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 41
 TITLE: 50.59 Annual Report of Changes, Tests or Experiments Made W/out Approv E

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	
	PD2-2 PD	1 0	LABARGE, D.	1 1	R
INTERNAL: ACRS		6 6	FILE CENTER	1 1	Y
RGN2 FILE 01		1 1			
EXTERNAL: NOAC		1 1	NRC PDR	1 1	1

NOTE TO ALL "RIDS" RECIPIENTS:
 PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM OWFN 5D-5 (EXT. 415-2083) TO ELIMINATE YOUR NAME FROM
 DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 12 ENCL 11

Duke Power Company
Oconee Nuclear Site
P.O. Box 1439
Seneca, SC 29679

J. W. Hampton
Vice President
864-885-3499 Office
864-885-3564 Fax



DUKE POWER

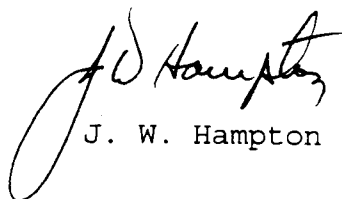
June 27, 1996

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, 1995, and December 31, 1995. This report is submitted pursuant to the requirement of 10 CFR 50.59 (b) (2).

Very truly yours,


J. W. Hampton

Attachment

9607010378 960627
PDR ADOCK 05000269
R PDR

13471

U. S. Nuclear Regulatory Commission
Page 2

xc: Mr. S. D. Ebnetter
Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta Street, NW., Suite 2900
Atlanta, GA 30323

Mr. P. E. Harmon
Senior NRC Resident Inspector
Oconee Nuclear Station

Mr. D. E. LaBarge
Project Manager
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. Max Batavia
Bureau of Radiological Health
SC Dept. of Health & Environmental Control
2600 Bull St.
Columbia, SC 29201

U. S. Nuclear Regulatory Commission
Page 3

bxc (w/ Attachment): D. A. Nix

bxc (w/o Attachment): B. L. Peele
J. M. Davis
W. W. Foster
J. E. Burchfield
J. L. Osborn
G. A. Copp
T. A. Saville
ELL - ECO50

Attachment

Oconee Facility Changes for the year 1995

Table of Contents

Description	Page
Procedures and Tests	1-4
Major Modifications	4-10
Minor Modifications	11-27
Selected Licensee Commitments (SLCs)	27-30
Pips/Operabilities	30-33
FSAR Changes	33-36
Calculations	36-37
Tech Spec Bases and Interpretation Changes	37

Attachment

I. Procedures and Tests

Procedure/Test

Unit 3

Description of Change:

This procedure will replace the test and fast acting solenoid valves on the Main Turbine stop valves, control valves, reheat stop valves and intercept valves from Parker Hannifin model 10104B1EYC solenoid valves to Parker Hannifin model D3W4BVYC solenoid valves under minor mod OE-6377.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test

Unit 3

Description of Change:

This test is intended to demonstrate acceptable CCW pump operation at flow rates expected after a Keowee dam failure. It will also verify the CCW pump curve at low flow rates and verify engineering calculations for the recirculation mode. In addition, this test will collect data to support the design of NSM-2932, CCW Seismic Siphon Upgrade.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test

Unit 2

Description of Change:

Procedure OP/2/A/1106/02 "feedwater and condensate" will be changed to allow local manual operation of 2FDW-32 and 2FDW-41 to allow repair of valve controls.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test
Unit 3

Description of Change:

This procedure change is intended to provide LPSW pump NPSH information and CCW pump performance for evaluation during the design phase of ON-52932 (CCW Siphon Seismic Upgrade).

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test
Unit 1

Description of Change:

The test procedure for stroke testing 1CCW-90 and 1CCW-91, Condenser Discharge Mid-point vent valves, is written assuming all CCW pumps are off. A restricted change is being made to the test procedure to allow stroke testing of these valves with a CCW pump operating.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test
Unit 3

Description of Change:

This evaluation is for a temporary change to approve B&W fuel procedures FS092, "Controlling Procedure for Reconstitution of MK-B Fuel Assemblies" and "Controlling Procedure for Recaging MK-B Fuel Assemblies" to permit lifting of the 9 rod fuel basket in the spent fuel pool.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test
Unit 1

Description of Change:

The purpose of this test is to collect data for determining the rate of air in-leakage at the CCW Pump shaft seal during siphon flow with excessive leakage at the pump shaft seal.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test
Units 1, 2, 3

Description of Change:

The purpose of HP/O/B/1002/46, Operation of Portable Radiation Survey instruments, is to provide instructions for operating various equipment used in making radiation surveys. The requirements to perform a post-operational check on radiation survey instruments is being deleted since this practice is not required.

Summary:

No Technical Specification changes are required for this mod. No USQs are created by or involved with this modification. FSAR 12.4.5.1 will need a revision.

Procedure/Test
Units 1,2,3

Description of Change:

In a letter to the NRC dated July 16, 1979, Duke Power Company committed to a quarterly valve verification of passive safety systems. Operations system lineup procedures with independent verification have been developed to ensure the affected systems are correctly aligned before being put in service and declared operable. Therefore, this evaluation was performed to delete the redundant requirement to perform a quarterly valve verification of passive safety systems.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

Procedure/Test
Units 1,2,3

Description of Change:

This evaluation determined if any unreviewed safety questions were involved with performing steam generator primary channel head decontamination concurrently with the RCS drain-down activities at the beginning of a refueling outage.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

II. Major Modifications

NSM ON-12873
Unit 1

Description of Change:

Installation of Main Steam Line Break detection and feedwater isolation circuitry to address NRC Bulletin 80-04.

Summary:

No Technical Specification changes are required for this mod. However, upon completion of the modification on all three units, a Tech Spec Submittal is planned to address the new circuitry. No USQs are created by or involved with this modification. Changes are required for FSAR Sections 6.2, 7.4.3.1, 10.4.6, 10.4.7, 15.13 and FSAR Figure 8-5.

NSM 12903
Unit 1

Description of Change:

Change out 18" manual turbine bypass isolation valves with 12" isolation valves of a higher pressure class rating. The turbine bypass control valves will also be replaced.

Summary:

No Technical Specification changes are required for this mod. No USQs are created by or involved with this modification. Changes are needed to FSAR section 15.9.

NSM 12926

Unit 1

Description of Change:

Change out existing automatic recirculation control valves on the discharge of the 1A and 1B Motor Driven Emergency Feedwater Pumps.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

NSM 12927

Unit 1

Description of Change:

Add a dedicated shutdown vent line to the quench tank from the existing Unit 1 high point vent system. The pressurizer will also have a new vent line installed into the new 1A OTSG vent line.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required for this mod. FSAR Table 5-22 and Figure 9-20 will need to be updated.

NSM 12948

Unit 1

Description of Change:

Install 3 new single phase over/under voltage relays on 1EB6 to detect a ground fault on the Unit 1 isolated phase bus.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required for this mod. FSAR figure 8-5 will need to be revised to reflect the new load.

NSM 12960

Unit 1

Description of Change:

Reroute segment of high pressure injection crossover piping and relocate the affected supports/restraints between the east and west pen rooms. The piping, support/restraints and affected fire wall be modified to permit easier access to the area. The firewall will be modified as required to support the piping en-route.

Summary:

No FSAR or Technical Specification changes are required for this mod. No USQs are created by or involved with this modification.

NSM 12976

Unit 1

Description of Change:

Change out letdown control valve (HP-5). The existing air operated 2.5" Rockwell valve and actuator will be replaced by a 2" Anchor Darling valve with a spring actuated closure function.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required for this mod. FSAR sections 6.3.2.3.4, 6.3.2.4, 6.3.2.6.3 and Table 6-16 will need to be changed.

NSM 22909

Unit 2

Description of Change:

Replace existing Unit 2 NI-2 (source range channel C) and NI-4 (intermediate range Channel D) detectors with two full range channels of neutron flux instrumentation. New cabling, electronic panels, display devices, and one OAC point will be added. Associated statalarms will be relocated, modified or deleted, as applicable. The existing Chessel NI recorder on 2UB1 control board will be replaced with one that matches the Unit's 1 and 3 recorders.

Summary:

No USQS are created by or involved with this mod. Although no Tech Spec changes are required to implement this mod, upon completion of all three Oconee Units, a submittal is planned to be made to the NRC to amend the Tech Specs to delete references to the old style detectors and revise the number of channels in Table 3.5.1-1. Several FSAR sections, tables, and figures need to be revised as necessary.

NSM 32881

Unit 3

Description of Changes:

Replace 120VAC vital instrumentation and control system inverters on Unit 3.

Summary:

No USQs are created by or involved with this mod. No changes to Technical Specifications are required for this modification. Changes will be needed for FSAR Sections 8.3.2.1.8, Table 3-68 and Figure 8-5, Section 8.3.2.1.8 and Figure 8-8.

NSM 32948

Unit 3

Description of Change:

Install 3 new single phase over/under voltage relays on 3EB6 to detect a ground fault on the Unit 3 isolated phase bus.

Summary:

No USQs are created by or involved with this mod. No changes to Technical Specifications are required for this modification. FSAR figure 8-5 will need to be revised to reflect the new load.

NSM 32971

Unit 3

Description of Change:

Replace Low Pressure Service Water piping that is on the discharge of each of the High Pressure Injection pump motor bearing coolers. The pipe is to be replaced to the common header near valve 3LPSW-711 and will be upgraded from Class G to Class F. Design temperature will be increased from 160F to 200F. New drain lines and valves will be installed.

Summary:

No USQs are created by or involved with this mod. No changes to Technical Specifications are required for this modification. FSAR Figure 9-2 needs to be revised.

NSM 52863/0
Units 1,2,3

Description of Change:

Replace 230KV switchyard batteries.

Summary:

No USQs are created by or involved with this mod. No changes to the FSAR or any Technical Specifications are required. The bases to Technical Specifications needs to be revised.

NSM 52929
Units 1,2,3

Description of Change:

Relocate small portion of security fence. Also relocates one microwave unit and replaces the unit with a new improved model. Several security cameras will be reprogrammed to reassign their coverage areas to optimize the focal distances.

Summary:

No USQs are created by or involved with this mod. No changes to the FSAR or any Technical Specifications are required.

NSM 52958/0
Units 1,2,3

Description of Change:

Provide a permanent flowpath from the Units 1 & 2 Turbine Building sump to the Unit 3 Turbine Building sump.

Summary:

No USQs are created by or involved with this mod. No changes to the FSAR or any Technical Specifications are required.

NSM 52959
Units 1,2,3

Description of Change:

Construct third phase of horizontal storage modules to provide for continued dry storage of spent fuel discharged from the Oconee reactors.

Summary:

No USQs are created by or involved with this mod. No changes to the FSAR or any Technical Specifications are required.

NSM 52972/0
Units 1,2,3

Description of Change:

Install a new line from Low Pressure Service Water "B" line to the Units 1 and 2 non-essential header. A new motor operated valve will be installed in this line and labeled as LPSW-139. The existing LPSW-139 will be renumbered. This mod supports the service water system upgrade and allows for additional testing.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. FSAR Figure 9-11 will need to be revised.

NSM 52973
Units 1,2,3

Description of Change:

Install a vehicle barrier system at Oconee in accordance with NRC guidance NUREG/CR-6190 and 10CFR73.55.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. FSAR Section 13.6 will need to be revised.

NSM 52974/0
Units 1,2,3

Description of Change:

Connect the Station Plant Drinking Water System to the City of Seneca water system.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. FSAR Sections 2.2.2.2 and 2.2.3.1.3 will need to be revised.

NSM 52990
Units 1,2,3

Description of Change:

Reroute Low Pressure Service Water discharge of miscellaneous Unit 1 and 2 heat exchangers from chemical treatment pond #3 to the CCW normal discharge line.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. FSAR Figures 9-9 and 9-12 will need to be revised.

III. Minor Modifications

OE # 5349

Unit 3

Description of Change:

Replace valve cc-20 due to failed leak rate test. Also, this valve is now obsolete and no parts are available for maintenance.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. An FSAR change is needed.

OE # 5692

Unit 2

Description of Change:

Add drain valve HP-484 to permit testing of valve HP-101.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 5693

Unit 2

Description of Change:

Add drain valve HP-485 to permit testing of valve HP-102.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 5725

Unit 2

Description of Change:

Correct elevation of several SG taps in the detail drawings according to the civil survey. As a result of these changes, other drawings are changed to eliminate inconsistencies.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. FSAR section 7.5.2.4 will need to be changed.

OE # 5967

Unit 1

Description of Change:

Replace valve CCW-38 with a similar valve, add flanges, and update the affected documents. Valve CCW-38 is obsolete and no repair parts are available.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 5969

Unit 3

Description of Change:

Replace valve CCW-38 with a similar valve, add flanges, and update the affected documents. Valve CCW-38 is obsolete and no repair parts are available.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 6219

Unit 3

Description of Change:

Change out current orifice in the letdown line downstream of SSF-3HP-426 with an orifice having a diameter of 0.240 inches. The existing orifice is too small.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 6406

Unit 1

Description of Change:

Replace HP-409 valve operator, and update the affected documents. The existing valve and operator do not provide the desired throttling capability.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE 6407

Unit 1

Description of Change:

Replace HP-410 valve, operator, and update the affected documents. The existing valve and operator do not provide the desired throttling capability.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 6472

Unit 1

Description of Change:

Remove drain plug from bottom of Cuno Filters, add valve LPSW-935 and associated vent piping, and update affected documents.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 6592

Units 1 & 3

Description of Change:

Add bypass valve AA-455 to permit using Station Instrument Air to supply air to the Radwaste Service Air System.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 6758

Units 1 & 3

Description of Change:

Install a test tee or drain valve between the check valve and isolation valve of each Keowee air circuit breaker (ACB) to allow craft to properly inspect the check valve for sticking or excessive leaks. This applies to Keowee ACBs - 1,-2,-3, and -4.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE 6963

Unit 1

Description of Change:

Delete valve CCW-90 and associated flanges and replace with piping. Modify configuration/elevation of piping run to permit deletion of valve CCW-90.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. FSAR figure 9-9 will need to be revised.

OE # 6964

Unit 1

Description of Change:

Delete valve CCW-90 and CCW-91. Disconnect all cables, control board indications, and electrical interlocks associated with CCW-90 and CCW-91.

Summary:

No USQs are created by or involved with this mod. No Technical Specification changes are required for this modification. FSAR figure 9-9 will need to be revised.

OE # 6970

Unit 3

Description of Change:

Replace the ionization detectors located around the reactor coolant pumps with rate of rise/fixed temperature detectors which will be interfaced to monitor modules.

Summary:

No USQs are created by or involved with this mod. No Technical Specification or FSAR changes are required for this modification.

OE # 6986/8134

Unit 3

Description of Change:

Revise 3FDW-315/316 auto/manual control circuit to eliminate the "pseudo auto" mode. Eliminate TDEFWP 15 second delay for seal-in after initiation, make seal-in immediate.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Sections 7.4.3.1.2 and 10.4.7.2 will need to be revised.

OE # 7028

Unit 3

Description of Change:

Install a 50% open torque switch bypass on the operator on BS-1 to improve valve operation at high D/Ps and to permit easier switch setting.

Summary:

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

OE # 7029

Unit 3

Description of Change:

Install a 50% open torque switch bypass on the operator BS-2 to improve valve operation at high D/Ps and to permit easier switch setting.

Summary:

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

OE # 7034

Unit 3

Description of Change:

Replace the operator on LPSW-137 because operator is obsolete and no repair parts are available.

Summary:

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

OE # 7069

Units 1 & 3

Description of Change:

Install a test tee and drain valve to each regulator of the Keowee air circuit breaker (ABC) air supply system to allow for proper adjustment of the regulator pressure. The ACB air compressors will be completely retubed with stainless steel per new instrument detail drawings and installation specifications.

Summary:

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

OE # 7143

Unit 3

Description of Change:

Delete 3BS-6 and replace with pipe run to improve NPSH to the BS pumps. This valve is no longer needed.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. Changes to FSAR Table 6-2, Figures 6-1, 6-2 and Figure 9-19 are needed.

OE # 7144
Unit 3

Description of Change:

Delete valve 3BS-5 and replace a pipe run to improve NPSH to the BS pumps. This valve is no longer needed.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Appendix 6 Table 6-2, Figures 6-1, 6-2, and Appendix 9 Figure 9-19 changes are needed.

OE # 7197
Unit 3

Description of Change:

Replace RPS flux/imbalance/flow signal conditioning and trip string modules with BWNT STAR system components.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR section 3.1.23 needs changes, along with FSAR Table 3.68 and FSAR sections 7.1, 7.2, and 7.4.

OE # 7206
Unit 1

Description of Change:

Install QA 1 root valve assemblies, stainless steel tubing, manifold valves and test tees for K1WLFS63Gc and K1WLFS63BC at Keowee Hydro Station. Pressure snubbers will be installed between the manifold valves and instruments.

Summary:

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

OE # 7207

Unit 2

Description of Change:

Install QA-1 root valve assemblies, stainless steel tubing, manifold valves, pressure snubbers and upgrade the mounting of K2WLFS63BC & K2WLFS63GC to QA-1 requirements at Keowee Hydro Station.

Summary:

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

OE # 7216

Unit 1

Description of Change:

Install a local flow indicator in parallel to the existing LPI flow instruments with a range of 0-2000 GPM.

Summary:

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

OE # 7217

Unit 2

Description of Change:

Install a local flow indicator in parallel to the existing LPI flow instruments with a range of 0-2000 GPM.

Summary:

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

OE # 7252

Unit 1

Description of Change:

Revise Unit 1 FDW-315/316 Auto/Manual control circuit. Revise Unit 1 TDEFWP seal-in circuit to make seal-in immediate. Revise 1FDW-372/382 control circuit from 3 position to 2 position.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Sections 7.4.3.1.2 and 10.4.7.2 will need to be revised.

OE # 7280

Unit 1

Description of Change:

Provide guidance and documentation for the installation and functional testing of a seal-in circuit for Keowee Unit Governor Oil Pump solenoid valve K10GSV0012.

Summary:

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

OE # 7283

Unit 2

Description of Change:

Provide guidance and documentation for the installation and functional testing of a seal-in circuit for Keowee Unit 2 Governor Oil Pump solenoid valve K20GSV0012.

Summary:

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

OE # 7300

Unit 1

Description of Change:

Remove tubes in 1A steam generator by plugging and stabilizing as necessary, based on eddy current testing (ECT) results or for preventative reasons.

Summary:

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

OE # 7301

Unit 1

Description of Change:

Remove tubes in 1B steam generator by plugging and stabilizing as necessary, based on eddy current testing (ECT) results or for preventative reasons.

Summary:

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

OE # 7321

Unit 1

Description of Change:

Replace 1HP-26 with a different type of globe valve.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. Parts of FSAR Sections 6, Appendix Tables will need to be revised. Section 6.3.2.6.3 will also need to be revised.

OE # 7322

Unit 1

Description of Change:

Replace 1HP-27 with a different type of globe valve.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. Parts of FSAR Sections 6, Appendix Tables will need to be revised. Section 6.3.2.6.3 will also need to be revised.

OE # 7328

Unit 1

Description of Change:

Replace 1HP-409 with a different type of globe valve.

Summary:

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

OE # 7329

Unit 1

Description of Change:

Replace 1HP-410 with a different type of globe valve.

Summary:

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

OE # 7369

Unit 1

Description of Change:

Delete operators for valves 1CCW-90 and 1CCW-91. Open and closed computer points D0294, D0295, D0296 and D0297 will be deleted as well as the control room lights.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR figure 9-9 will be revised.

OE # 7373

Unit 1

Description of Change:

Replace operator on 1HP-26. The existing Limitorque operator is obsolete and will be replaced with a different type of Limitorque operator.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Section 6.3.2.6.3 will be changed, along with Section 6, Tables 6-16 and 6-17.

OE # 7411

Unit 1

Description of Change:

Replace valve BS-5 with a pipe run and spoolpiece to improve NPSH to the BS pumps. This valve is no longer needed.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Table 6-2, Figures 6-1, and 6-2 will need to be revised.

OE # 7412

Unit 1

Description of Change:

Replace valve BS-6 with a pipe run and spoolpiece to improve NPSH to the BS pumps. This valve is no longer needed.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Table 6-2, Figures 6-1 and 6-2, Figure 9-19 will need to be revised.

OE # 7442

Unit 1

Description of Change:

Install an auxiliary relay to seal in the fast bus transfer permissive relay for certain Unit 1 start-up breakers. This will increase the deadtime of the slow transfer to ensure that loadshedding occurs and the startup source will not trip.

Summary:

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

OE # 7481

Unit 1

Description of Change:

Replace the SSF ASW pump motor amp transducer with a Scientific columbus model since the transducer did not meet calibration criteria.

Summary:

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

OE # 8031

Units 1, 2, 3

Description of Change:

Revise ECCW test acceptance criteria to 1) address a Tech Spec change, and, 2) meet a commitment in an NRC Violation response.

Summary:

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

OE # 8067
Units 1 and 2

Description of Change:

Replace existing hoist on the Unit 1 PIE jib crane and provide a permanent power source for the hoist.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR section 9.1.4.2.2 will need to be revised.

OE # 8068
Units 1,2,3

Description of Change:

Change design basis for loss of Lake Keowee event. This change will eliminate reliance on recirculation of the water trapped by the submerged weir in the CCW intake canal as a required method for decaying heat removal after a loss of Lake Keowee. Credit will be taken for using water volume in embedded CCW piping as a cooling source.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Section 9.2.2.2.1 will need to be revised.

OE # 8165
Unit 3

Description of Change:

Revise OFDs to make them agree with as-built configuration of piping tubing in the vicinity of the Waste Disposal Sample Hood.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR figure 9-15 will need to be revised.

OE # 8311

Unit 2

Description of Change:

Delete TBWD trip and relocate the pressure switches that provide the low bearing oil pressure trip. The TBWD trip will be monitored by means listed above and the turbine will be manually tripped if necessary. Low bearing oil pressure trip will continue to provide the function it has always provided. The pressure switches will be relocated to the turbine oil tank where they will monitor the same pressure as before.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR section 10.4.6.5.1 will need to be revised.

OE # 8312

Unit 2

Description of Change:

Delete the high exhaust hood temperature trip from the main turbine trips. Make an alarm only function and label the temperature switches.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR section 10.4.7.5.1 will need to be revised.

OE # 8515/8516

Unit 3

Description of Change:

Raise RPS System FDW pump discharge pressure switch setpoint to 800 psig decreasing. Revise I & C list to reflect part number change due to recent changeout per acceptable substitute program.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Section 7.4.3 will need to be revised.

OE # 8551

Unit 3

Description of Change:

Delete high exhaust hood temperature trip and make an alarm only function.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR Section 10.4.6.5.1 will need to be revised.

OE # 8589

Units 1, 2, 3

Description of Change:

Change designations from IM to TM for 230kV switchyard 125Vdc battery breakers and bus tie breakers since the breakers are thermal magnetic (TM) breakers instead of instantaneous magnetic (TM) breakers.

Summary:

No USQs are created by or involved with this modification. No Technical Specification changes are required by this mod. FSAR figure 8-7 will need to be revised.

IV. Selected Licensee Commitments (SLCs)

SLC 94-08

Units 1,2,3

Description of Change:

Selected Licensee Commitment (SLC) 16.9.9, Auxiliary Service Water System (ASW) is being added to describe the requirements for maintaining the ASW system in an operable condition.

Summary:

No USQs are created by or involved with this new SLC. No Technical Specification changes are required for this SLC. FSAR Sections 9.6.3.1 and 9.6.4.2 will need to be revised.

SLC Revision 94-10

Units 1,2,3

Description of Change:

SLC 16.9.7, Keowee Lake Level, is being revised to eliminate the operability requirement for the 2nd siphon portion of the Emergency Condenser Circulating Water (ECCW) system due to a Tech Spec change which determined that the 2nd siphon of ECCW does not impact LPSW operability.

Summary:

No USQs are created by or involved with this SLC revision. No Technical Specification changes are required for this SLC revision. FSAR will need to be revised to address this new licensing basis item.

SLC Revision #95-01

Units 1,2,3

Description of Change:

Add new SLC 16.8.3, Power Battery Parameters, to establish requirements for the operability of the 250Vdc Power Batteries.

Summary:

No USQs are created by or involved with this SLC revision. No Technical Specification changes are required for this revision. No additional FSAR changes are needed for this SLC revision.

SLC Revision # 95-02

Units 1,2,3

Description of Change:

Add new SLC 16.8-4 which specifies Keowee Operating restrictions on the Keowee Hydro units during periods of commercial power generation.

Summary:

No Technical Specification changes or additional FSAR changes are required for this SLC revision. No USQs are created by or involved with this SLC revision.

SLC Revision #95-03
Units 1,2,3

Description of Change:

This SLC revision provides additional restrictions as to when the HPSW system is considered available with regard to supporting the operability of LPSW system. The revision adds restrictions based on the availability of the Main Feeder Bus.

Summary:

No Technical Specification changes or additional FSAR changes are required for this SLC revision. No USQs are created by or involved with this SLC revision.

SLC Revision #95-04
Units 1,2,3

Description of Change:

This revision to the SLC Manual revises SLC Table 16.9-6 to include additional detection equipment for coverage of all applicable areas of the Oconee and Keowee Hydro Station.

Summary:

No Technical Specification changes are required by this SLC revision. No USQs are created by or involved with this SLC revision. FSAR Table 9-12 will need to be revised.

SLC Revision #95-05
Units 1,2,3

Description of Change:

This revision to the SLC Manual revises Section 16.9.7, Keowee Lake Level, due to errors found in the Net Positive Suction Head (NPSH) calculation for the Low Pressure Service Water (LPSW) pumps.

Summary:

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

SLC Revision #95-06
Units 1,2,3

Description of Change:

This revision to SLC 16.9-1 deleted the requirement to declare an Unusual Event on unit shutdown due to fire suppression being inoperable.

Summary:

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

SLC Revision #95-08
Units 1,2,3

Description of Change

SLC 16.6.1, Containment Leakage Tests was revised to reflect current plant configuration and to update testing information.

Summary:

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

V. PIPs/Operabilities

Operability:
Units 1,2,3

Description of Change:

Revise negative power imbalance limits to address a B&W preliminary safety concern regarding LOCA reanalyses.

Summary:

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

Operability:
Units 1,2,3

Description of Change:

Ensure the LPSW pump NPSH requirements are able to be met in the event of a LOCA/LOOP. This evaluation covers a degraded operability condition due to LPSW pump NPSH calculational errors until the SLC can be revised.

Summary:

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

Operability:
Units 1,2,3

Description of Change:

This evaluation covers a degraded operability condition of the Upper Surge Tank (UST). The resolution is to modify support legs for the Upper Surge Tanks to restore the UST's to be within design limits for damping values in FSAR section 3.7.1.3.

Summary:

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

Operability:
Units 1,2,3

Description of Change:

Verify that use of temporary power supplies for hydrogen recombiner operation in a LOCA/LOOP does not create any unreviewed safety question.

Summary:

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

Operability:

Unit 2

Description of Change:

A conditional operability has been prepared which shows that battery capacity is sufficient with 59 cells to support operation of the system when the 2PB battery is operated as one of five or six operable batteries on the 250Vdc system. The 2PB battery may not, however, serve as one of four operable batteries in the 250Vdc system. The conditional operability restricts operation such that this alignment will not be entered.

Summary:

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

Operability:

Unit 4

Description of Change:

Conditional operability for SSF MCC XSF feeder breaker trip. A conditional operability was established by establishing isolation of certain non-essential loads.

Summary:

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

Operability:

Unit 5

Description of Change:

Limit Keowee Unit generation to the grid to no more than 75 MW dependent on the water head on the unit. This restriction is to prevent the running unit from tripping on overspeed following an ES-induced load rejection.

Summary:

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

Operability:

Units 1,2,3

Description of Change:

Degraded cooling to Keowee Main Step-up Transformer due to cooling equipment malfunctions.

Summary:

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

VI. FSAR Changes

FSAR Change:

Units 1,2,3

Description of Change:

This change to section 7.5.1.1 is being changed to remove "High Pressure Injection Crossover Flow". Section 7.5.2.7 is being revised to say "HPI system flow is a Type A variable..."

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Sections 7.5.1.1 & 7.5.2.7 will need to be revised.

FSAR Change:

Units 1,2,3

Description of Change:

This change to the FSAR is to revise and clarify the Chapter 15.11 fuel handling accident analyses to correctly reflect Oconee's licensing basis.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Sections 15.11 will need to be revised.

FSAR Change:
Units 1,2,3

Description of Change:

This change to FSAR sections 1.2.2.3 and 6.5.1.2 corrects the description of the penetrations which do not pass through the penetration rooms.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Sections 1,2,2,3 and 5,5,1,2 will need to be revised.

FSAR Change:
Units 1,2,3

Description of Change:

This change to section 9.1.4.2.3 in which the statement regarding a minimum of 23.5 feet of water over the stored fuel assemblies in the Spent Fuel Pool will be changed to say that 23.5 feet is a nominal water depth, and that the minimum is 21.34 feet of water over the storage racks (-2.0 feet indicated water level).

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Chapter 9.1.4.2.3 will need to be revised.

FSAR Change:
Units 1,2,3

Description of Change:

In the Ocone SITA 92-01 (ON) Item 2.6.2-1, the SITA team sited that "nonconformance to FSAR requirement shorted 125VDC Vital I&C Power cables are isolated by feeder breakers with the recommendation to revise and clarify the FSAR.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Table 8-5 will need to be revised.

FSAR Change:

Units 1,2,3

Description of Change:

This activity is a FSAR revision to identify the correct design basis requirements for Spent Fuel Pool temperatures and heat loads in the pools.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Sections 9.1.3.1.1, 9.1.3.1.2, and 9.1.3.3.1 will need to be revised.

FSAR Change:

Units 1,2,3

Description of Change:

The Keowee Division of Crescent Resources, Inc., recently requested permission from Oconee Nuclear Station to install a boat ramp and dock immediately adjacent to their existing office complex located off of Hwy. 130/183. While reviewing this request, and in order to assure the technical accuracy of the FSAR, the Oconee Plat Team (surveying group) determined the approximate location of the Crescent facility and appurtenances with respect to the site exclusion area. The change for which this 50.59 USQ evaluation is being performed corrects the description of the site location as it appears in sections 2.1.1.2 and 2.1.2.2 of the FSAR.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Sections 2.1.1.2 and 2.1.2.2 will need to be revised.

FSAR Change:

Units 1,2,3

Description of Change:

This revision to section 6.1.3 makes the description of the HPSH analysis for LPI and BS pumps consistent with recently updated NPSH calculations.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Sections 6.1.3 and Table 6-1 will need to be revised.

FSAR Change:

Units 1,2,3

Description of Change:

FSAR 6.3.2.2.2 states that the LPI system is designed to maintain core cooling for larger break sizes and control the boron concentration in the core while in the recirculation mode. The FSAR also states that the LPI system provides two redundant gravity flow paths from the reactor outlet piping to the Reactor Building Emergency Sump (RBES) to maintain continuous liquid flow through the core and assure post-LOCA boric acid solubility. The FSAR will need to be changed to reflect other system mechanisms that could assure post-LOCA boric acid solubility.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes are required by this change. FSAR Sections 6.3.2.2.2 and 6.3.3.2.1 will need to be revised.

VII. Calculations

Calculation NAS, CS-3-90-OAC

Unit 3

Description of change:

A NAS module (ROBAL.AAT) is being corrected such that correct poison (i.e., xenon) worths can be calculated. Another NAS module (POW3D.AAT) is being corrected such that correct core average burnups can be calculated. In addition, actual core average burnups, as calculated by NAS and residing within the OAC, are being corrected as appropriate.

Summary:

No USQs are created by or involved with this change. No Tech Spec changes or FSAR are required by this change.