MISSISSIPPI POWER & LIGHT COMPANY
Helping Build Mississippi
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November 26, 1986

O. D. KINGSLEY, JR.
VICE PRESIDENT · NUCLEAR OPERATIONS

U. S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30323

Attention: Dr. J. Nelson Grace, Regional Administrator

Dear Dr. Grace:

SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416 and 50-417
License No. NPF-29
Report of 10 CFR 50.59
Safety Evaluations
January 1, 1986 to
June 1, 1986
AECM-86/0362

In accordance with the requirements of 10 CFR 50.59(b), attached is Mississippi Power & Light Company's Report of changes, tests, and experiments determined to be reportable under the requirements of 10 CFR 50.59 for the period of January 1, 1986 to June 1, 1986 (excluding certain safety evaluations performed for Revision 0 of the Updated FSAR as discussed below). Additionally, those 10 CFR 50.59 safety evaluations performed after June 1, 1986 as a result of changes incorporated into the December 1986 update of the FSAR have also been included in this report.

In response to NRC Violation 50-416/86-02-01, MP&L committed in letter dated April 10, 1986 (AECM-86/0089) to report the safety evaluations on changes made in the initial update of FSAR (Revision 0, December 1985). The status and schedule for the reporting of these safety evaluations will be addressed in a separate letter.

Yours truly,

ODK:vog
Attachment

cc: Mr. T. H. Cloninger (w/a)
Mr. R. B. McGehee (w/a)
Mr. N. S. Reynolds (w/a)
Mr. H. L. Thomas (w/o)
Mr. R. C. Butcher (w/a)

Mr. James M. Taylor, Director (w/a)
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

REPORT

OF

10 CFR 50.59 SAFETY EVALUATIONS

JANUARY 1, 1986 TO JUNE 1, 1986

GRAND GULF NUCLEAR STATION

MISSISSIPPI POWER & LIGHT COMPANY

SRASN: PLS-86-001 DOC NO: CN#3311-SE-86-029 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change incorporated the requirement to document each safety/relief valve (SRV) actuation.

REASON FOR CHANGE: To partially resolve FSAR question & response No. 121.7.

SAFETY EVALUATION: This FSAR change does not physically affect any plant equipment, and only reflects documentation requirements for SRV actuation. No unreviewed safety questions have been identified for this change.

SRASN: PLS-86-002 DOC NO: CN#3340-SE-86-030 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change replaced the Scram report requirement in FSAR 15.1.3.2.1.1.h with a Post Trip Analysis report.

REASON FOR CHANGE: So that the FSAR would indicate the proper report required by GGNS Procedures.

SAFETY EVALUATION: The Post Trip Analysis is more detailed than the Scram report for documenting all unplanned automatic reactor scrams. This change is considered to be an enhancement with no adverse safety impact. No unreviewed safety questions have been identified for this change.

SRASN: PLS-86-003 DOC NO: CN##3010-SE-86-031 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change to FSAR Figure 12.3-26 replaced the title of the calibration room with "counting room."

REASON FOR CHANGE: To reflect the actual use of the room which was too small to meet the needs of a calibration room.

SAFETY EVALUATION: This FSAR change is an administrative change of title of a room and has no impact on safety related equipment nor safety of the plant. The change only reflects the use of the room and does not affect any accident evaluated in the FSAR. No unreviewed safety question was identified for this change.

SRASN: PLS-86-005 DOC NO: CN#3005-SE-86-036 SYSTEM: C11

DESCRIPTION OF CHANGE: FSAR Section 7.7.1.2.3.2.1.4 was revised to clarify the description of actions for gang mode control rod movement; i.e., gang motion is blocked whenever a rod in the gang exceeds the RPCS-specified notch limit.

REASON FOR CHANGE: The previous FSAR wording implied that there was an RPCS gang misaligned rod block, but no such block exists.

SAFETY EVALUATION: This FSAR change provided clarification only. There was no change nor effect on the physical plant or operation. There was no impact on accidents previously evaluated; no impact on malfunction of equipment; no impact on margins of safety; and no unreviewed safety questions were identified.

SRASN: PLS-86-006 DOC NO: CN#3004-SE-86-040 SYSTEM: C91

DESCRIPTION OF CHANGE: FSAR Sections 7.7.1.7.3.1, 7.7.1.7.5.1, and 7.7.1.7.5.2.1 were revised to correct the description of the NSSS process computer system.

REASON FOR CHANGE: To correct the FSAR description and reflect the actual characteristics of the vendor supplied equipment and its operation.

SAFETY EVALUATION: The revisions were editorial and did not represent changes to plant equipment or operation. There was no impact on any equipment or analyzed accident. No unreviewed safety question was identified for this change.

SRASN: PLS-86-007 DOC NO: CN#3483-SE-86-042 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change revises Table 6.2-49 by providing additional information, editorial corrections, and updated information on local leak rate testing.

REASON FOR CHANGE: The table was revised to reflect current information and to provide consistency with the Technical Specifications.

SAFETY EVALUATION: This FSAR change does not alter any physical design, system configuration, or operating condition in the plant; and, there is no impact on evaluated accidents or equipment malfunction. The change reflects compliance with 10CFR50, Appendix J. No unreviewed safety question was identified for this change.

SRASN: PLS-86-008 DOC NO: CN#3338-SE-86-044 SYSTEM: N/A

DESCRIPTION OF CHANGE: The word "Standby" in FSAR Section 5.4.6.2.1.1a was changed to "Shutdown".

REASON FOR CHANGE: This change made the FSAR description of the plant condition consistent with the plant Technical Specifications. "Hot Shutdown" is defined in the specifications, "Hot Standby" is not.

SAFETY EVALUATION: This change is editorial and provides consistency with the technical specifications. The change does not affect plant operation, previously evaluated accidents, nor margins of safety; and, no unreviewed safety question was identified.

SRASN: PLS-86-009 DOC NO: 1-000-SU-08-5 SYSTEM: N/A

DESCRIPTION OF CHANGE: The rod sequence exchange test described in FSAR 14.2.12.3.7 was not performed during the GGNS startup test program.

REASON FOR CHANGE: Per NRC criteria in FSAR Chapter 14 Q&R 423.32 the test was determined to be non-essential.

SAFETY EVALUATION: The rod sequence exchange test was not required for verification of safety functions relied upon for safe plant shutdown. The test is not used as basis for any technical specification. No unreviewed safety questions have been identified as a result of not performing this test.

SRASN: PLS-86-010 DOC NO: MWO-F60197 SYSTEM: N62

DESCRIPTION OF CHANGE: This test verified proper operation of the Condenser Air Removal System's Mechanical Vacuum Pump trip and annunciator relays

REASON FOR CHANGE: To confirm the proper installation of Design Change Package (DCP) 84-0226.

SAFETY EVALUATION: This test was conducted when the mechanical vacuum pumps were isolated from the condenser with the pump operating in the dry out mode. This test simply verified proper Mechanical Vacuum Pump trip and annunciator relay functions. No unreviewed Safety Questions have been identified as a result of this test.

SRASN: PLS-86-011 DOC NO: TA-86-0008 SYSTEM: P33

DESCRIPTION OF CHANGE: The temporary alteration provided a bypass around Gamma Detectors in the post accident sample station.

REASON FOR CHANGE: To permit continuation of other sampling capability while maintenance was performed on the unshielded detectors.

SAFETY EVALUATION: The temporary change permitted sampling to continue per technical specification 6.8.3c and within the dose limitations of NUREG-0737. There was no impact on previously analyzed accidents nor equipment important to safety. No unreviewed safety question was identified.

SRASN: PLS-86-014 DOC NO: TA-86-0009 SYSTEM: P33

DESCRIPTION OF CHANGE: A temporary bypass was installed around the post-accident sample Station Gas Stripper which was inoperable.

REASON FOR CHANGE: To restore partial system capability and meet the minimum requirements of NUREG-0737 and the FSAR.

SAFETY EVALUATION: This temporary alteration did not affect any accident evaluated in the FSAR nor any equipment important to safety. The change restored minimum capability of the system to meet requirements. No safety concern was identified for this change.

SRASN: PLS-86-017 DOC NO: MWO-M61718 SYSTEM: B21

DESCRIPTION OF CHANGE: The performance of the special instruction attached to the maintenance work order provided the measurement of air flow into the ADS system from the instrument air booster compressors.

REASON FOR CHANGE: To determine if the air flow rate was reduced as a result of reworking the ADS accumulator relief valves.

SAFETY EVALUATION: No safety concern was created by the performance of the test because the steam dome pressure was below 135 PSIG and the ADS was not required to be operable; and, the Instrument Air System is not a safety system. There was no impact on previously analyzed accidents, equipment performance, or margins of safety.

SRASN: PLS-86-018 DOC NO: TA-86-0012 SYSTEM: P53

DESCRIPTION OF CHANGE: One-half inch ball valves were installed on the instrument air prefilter WYE strainers.

REASON FOR CHANGE: To facilitate blowdown of the strainers which will prevent the strainer from becoming clogged and in turn reduce the amount of moisture conveyed to the Air Dryers.

SAFETY EVALUATION: The original design intent of the strainers is maintained and the Air Dryer performance is enhanced. No new failure modes are introduced and no safety concerns were identified for this change.

SRASN: PLS-86-019 DOC NO: CN#3448-SE-86-027 SYSTEM: N22

DESCRIPTION OF CHANGE: FSAR Section 5.2 and 10.4, and Tables in Chapter 11 were changed to reflect: (1) That the Condensate Demineralizer Resin would be periodically cleaned or replaced dependent upon performance and economic considerations; and (2) The residual ion exchange capacity was changed from 50% to 25%.

REASON FOR CHANGE: To reflect the alternate methods of treating the Resin and the reduction in residual capacity. The residual capacity was reduced because 25% is adequate and the 50% value was based on seawater cooling, whereas GGNS has freshwater cooling.

SAFETY EVALUATION: This FSAR change does not affect the design of the plant. No equipment sequences nor procedures were changed. The 25% residual ion exchange capacity provides adequate protection against condenser tube leaks. The change simply reflects the options for treating the resins. No unreviewed safety question was identified for this change.

SRASN: PLS-86-021 DOC NO: CN#3448-SE-86-039 SYSTEM: N22

DESCRIPTION OF CHANGE: FSAR Section 5.2 and 10.4, and Tables in Chapter 11 were changed to reflect: (1) that the condensate demineralizer resin would be periodically cleaned or replaced dependent upon performance and economic considerations; and (2) The residual ion exchange capacity was changed from 50% to 25%.

REASON FOR CHANGE: To reflect the alternate methods of treating the resin and the reduction in residual capacity. The residual capacity was reduced because 25% is adequate and the 50% value was based on seawater cooling, whereas GGNS has freshwater cooling.

SAFETY EVALUATION: This FSAR change does not affect the design of the plant. No equipment sequences nor procedures were changed. The 25% residual ion exchange capacity provides adequate protection against condenser tube leaks. The change simply reflects the options for treating the resins, no unreviewed safety question was identified for this change.

SRASN: PLS-86-022 DOC NO: MWO-I62296 SYSTEM: B33

DESCRIPTION OF CHANGE: A "Biddle" instrument was used to simulate a normal temperature in place of a failed thermocouple signal which was presenting a false Delta-T interlock that prevented low speed starts, fast speed starts, and transfer to fast speed for Recirculation Pump B.

REASON FOR CHANGE: To obtain the start and transfer capability for Recirculation Pump B.

SAFETY EVALUATION: The change created no new failure modes other than those presently analyzed, and did not affect the safety-related functions of the recirculation system. No unreviewed safety question was identified for this change.

SRASN: PLS-86-023 DOC NO: CN#3017 SYSTEM: C84

DESCRIPTION OF CHANGE: This change to FSAR Section 2.3.3.1 and Table 2.3-170 was made to reflect the replacement of the wind speed and wind direction sensors on the main Meteorological Tower

REASON FOR CHANGE: To reflect the sensors currently in use on the Meteorological Tower. The sensors were replaced to obtain improved accuracy and reliability.

SAFETY EVALUATION: The new sensors should be more reliable and accurate and improve GGNS's ability to mitigate the consequences of a postulated accident by assisting in the accurate calculation of doses to the public.

SRASN: PLS-86-024 DOC NO: CN#3310 SYSTEM: N71

DESCRIPTION OF CHANGE: FSAR Section 10.4.5.2 was revised to reflect the alternate method for Biocide Treatment of the circulating water system. The change also added "NPDES" to the list of abbreviations.

REASON FOR CHANGE: To provide an updated description of the methods used for treating the circulating water system.

SAFETY EVALUATION: No safety concern was identified for this change. The Biocide Treatment Program is not safety-related and has no effect on previously analyzed accidents or equipment performance. No margins of safety are affected. Chemical discharges to offsite areas are verified to be within NPDES limits prior to the discharge.

1SRASN: PLS-86-025 DOC NO: CN#3334 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change to FSAR Section 5.4.8.2 clarifies that there are several places for obtaining reactor coolant grab samples and clarifies that the backwash and precoating of the reactor water cleanup system may take longer than one hour.

REASON FOR CHANGE: To clearly reflect, in the FSAR, the operations associated with the reactor water cleanup system.

SAFETY EVALUATION: This change is editorial in nature and does not represent a change in design or procedure. The change is for clarification only. No safety concern was identified for this change.

SRASN: PLS-86-026 DOC NO: MWO 62618 SYSTEM: B-33

DESCRIPTION OF CHANGE: A jumper was placed across the contacts of relay K687 to simulate a normal temperature signal from a failed thermocouple instrument loop. The failed thermocouple was presenting a false Delta-T interlock that prevented starts and transfer operations for Recirculation Pump B.

REASON FOR CHANGE: To permit start and speed transfer operations for Recirculation Pump B.

SAFETY EVALUATION: The temporary alteration created no new failure modes and did not affect the safety-related functions of the recirculation system. No unreviewed safety questions were identified for this change.

SRASN: PLS-86-028 DOC NO: CN#3339-SE-86-048 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change replaced the SCRAM Report requirement in FSAR 15.4.5.2.1.3.f with a post trip analysis.

REASON FOR CHANGE: To indicate the proper report required by GGNS Procedures.

SAFETY EVALUATION: This is an editorial type change to clarify FSAR 15.4.5.2.1.3.f. Required functions of the SCRAM Report are still being performed by the post trip analysis. No unreviewed safety questions have been identified for this change.

SRASN: PLS-86-029 DOC NO: CN#3355-SE-86-045 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change revised the definition of "wide open position" and "stroke" in FSAR Section 5.4.1.8.1.

REASON FOR CHANGE: To provide consistency in the working definition of these words with approved GGNS Operating Procedure 04-1-01-B33-1 and Technical Specification Figure B 3/4.2.3-1.

SAFETY EVALUATION: This FSAR change did not affect physical plant operations or safety. This was a software change only. No safety concerns have been identified as a result of this FSAR change.

SRASN: PLS-86-030 DOC NO: CN#3394-SE-86-059 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change revised FSAR Figure 14.2-2. Also, the text of FSAR 14.2.2.14.3 was revised to agree with the revised figure.

REASON FOR CHANGE: To clarify the General Electric Startup Interface.

SAFETY EVALUATION: These FSAR changes were either administrative or editorial in nature and did not affect plant safety. These changes maintained the overall level of the GGNS Startup Organization's Supervision/Management responsibility. No safety concerns were identified as a result of these FSAR changes.

SRASN: PLS-86-031 DOC NO: CN#-3394-SE-86-060 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR Change deleted the Startup Supervisor's Detail Review of Draft Startup Test Procedures as stated in FSAR 14.2.3.2. Also, in the second sentence of the second paragraph of FSAR 14.2.3.2 an editorial type change was made to change "distributes copies" to "forwards them".

REASON FOR CHANGE: To streamline the Startup Test Procedure Review Cycle and to clarify FSAR 14.2.3.2.

SAFETY EVALUATION: These FSAR changes did not affect plant safety. The Review Cycle required the Startup Supervisor to perform a "Final" Review of the Startup Test Procedure prior to issue of the Procedure. Therefore, the required quality and depth of Startup Test Procedure Review by the Startup Supervisor was maintained. No safety concerns were generated by these FSAR changes.

SRASN: PLS-86-032 DOC NO: CN#3406-SE-86-075 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change revised FSAR Figure 12.5-1, "Health Physics Organization (Unit 1)".

REASON FOR CHANGE: To reflect present Health Physics Organization per Technical Specification.

SAFETY EVALUATION: This change was administrative in nature and did not affect plant safety. This change reflects the nomenclature and lines of communication used in Technical Specification Figure 6.2.2-1. No safety concerns were generated by this change.

SRASN: PLS-86-033 DOC NO: CN#3406-SE-86-074 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Tables 12.5-1 and 12.5-2 were revised to reflect the correct status of health physics supplies, equipment and instruments used (including instrument accuracies, deletion of unused and obsolete equipment and to provide an accurate statement of minimum required inventories of supplies) to protect personnel and respond to emergencies, and provide correct data for the chemistry laboratory equipment.

REASON FOR CHANGE: These changes are part of a general revision to the FSAR to correct typographical errors, provide current correct information, and to clarify the health physics program.

SAFETY EVALUATION: The changes are editorial in nature and have no impact on previously analyzed accidents nor equipment performance. No safety concern was identified for this FSAR change.

SRASN: PLS-86-034 DOC NO: CN#3406-SE-86-073 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 12.5.3.8.1 was revised to clarify the respirator protection training program and to reflect that related records are to be maintained as Quality Assurance records.

REASON FOR CHANGE: To provide an editorially correct description of the training program and reflect an administrative change for the maintenance of records.

SAFETY EVALUATION: This FSAR change does not physically affect any plant equipment and reflects only editorial changes and an administrative change for the maintenance of records. No unreviewed safety question was identified for this change.

SRASN: PLS-86-035 DOC NO: CN#3406-SE-86-072 SYSTEM: N/A

DESCRIPTION OF CHANGE: These changes are editorial and administrative changes to UFSAR Section 12.5.

REASON FOR CHANGE: To clarify programs to comply with 10CFR20 for posting of Airborne Radioactivity Areas.

SAFETY EVALUATION: These changes do not affect plant systems or equipment or the FSAR Accident Analysis. They do not affect the Technical Specifications or the bases for them. No new failure modes different from those previously evaluated in the FSAR are created. These changes have no effect on the environment.

SRASN: PLS-86-036 DOC NO: CN#3406-SE-86-071 SYSTEM: N/A

DESCRIPTION OF CHANGE: These are editorial/administrative changes to FSAR Section 12.5.

REASON FOR CHANGE: To clarify programs and use of equipment; and to allow for new equipment and techniques to be used to protect plant personnel.

SAFETY EVALUATION: These changes do not affect plant systems or equipment or the FSAR Accident Analysis. They do not affect the Technical Specifications or the Bases for them. No new Failure Modes different from those evaluated in the FSAR are created. These changes have no effect on the environment.

SRASN: PLS-86-037 DOC NO: CN#3406-SE-86-070 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 12.5 was revised to reflect changes in the titles and organization of the Health Physics Section, and to correct the identification of equipment and facilities used in the program.

REASON FOR CHANGE: To provide an editorially correct description of the Health Physics organization and program.

SAFETY EVALUATION: The change to the FSAR is editorial and does not affect any plant equipment. No unreviewed safety question was identified for this change.

SRASN: PLS-86-038 DOC NO: CN#3406-SE-86-069 SYSTEM: D21

DESCRIPTION OF CHANGE: FSAR Table 12.3-3 was revised to reflect the deletion of four area radiation monitors for the installed plant Radwaste Solidification System.

REASON FOR CHANGE: To provide an editorially correct description of the facility. The Solidification System is not used and the monitors are not used for personnel safety.

SAFETY EVALUATION: Deletion of the monitors from the table does not alter the design nor affect system functions or operability. The FSAR change does not physically affect any plant equipment. No unreviewed safety question was identified for this change.

SRASN: PLS-86-039 DOC NO: CN#3406-SE-86-068 SYSTEM: Z51

DESCRIPTION OF CHANGE: Incorporate various editorial changes into the UFSAR Sections referenced above. These changes do not affect any system operation or plant design function.

REASON FOR CHANGE: To provide clarification of the various FSAR sections.

SAFETY EVALUATION: These are editorial changes that have no effect on Technical Specifications, or any system, or equipment, or operations. It has no effect on UFSAR Accident Analysis, and the referenced UFSAR Sections do not provide a basis for any technical specification. This change has no effect on the environment.

SRASN: PLS-86-040 DOC NO: CN#3406-SE-86-067 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change revised the criterion for posting Radiation Areas from 5.0 to 2.5 mrem/hr.

REASON FOR CHANGE: To be consistent with Plant Programs and to require a greater margin of conservatism than required in 10CFR20 and FSAR Amendment 55.

SAFETY EVALUATION: This change is conservative in nature and enhances personnel safety. It has no effect on Technical Specifications, or any system, or equipment, or operations. It has no effect on UFSAR Accident Analysis, and the Referenced UFSAR Section is not the basis for any technical specification. This change has no effect on the environment.

SRASN: PLS-86-041 DOC NO: CN#3406-SE-86-066 SYSTEM: N/A

DESCRIPTION OF CHANGE: These changes consist of editorial changes concerning use of temporary shielding, and contamination on the Refueling Floor, and Airborne Controls.

REASON FOR CHANGE: To clarify the meaning and intent of the FSAR.

SAFETY EVALUATION: These changes are editorial in nature and have no effect on Technical Specifications, or any system, or equipment, or operations. They have no effect on FSAR Accident Analysis, and the Referenced FSAR Section is not the basis for technical specification.

SRASN: PLS-86-042 DOC NO: CN#3406-SE-86-065 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change added clarifying terminology and narration and increased the types of areas which require a Radiation Work Permit (RWP) for entry (i.e., Neutron Exposure Area, Potential Airborne Radioactivity Area, High Contamination Area).

REASON FOR CHANGE: To clarify Descriptions of certain plant components and to increase the margin of personnel health and safety.

SAFETY EVALUATION: This change does not affect Technical Specification RWP Requirements for high radiation and very high radiation areas. The other parts of the change are clarifying in nature and have no effect on any system, or any equipment, or any operation, or the FSAR Accident Analysis. There is no effect on the basis of any technical specification or the environment.

SRASN: PLS-86-043 DOC NO: CN#3406-SE-86-064 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change outlines ALARA Responsibilities and described Radiation Worker (Radworker)Training Commitments, which include additional training in Emergency Preparedness. The Radworker Cycle is also increased to 2 years.

REASON FOR CHANGE: To define ALARA Responsibilities and to ensure adequate levels of training for those receiving Radworker Training.

SAFETY EVALUATION: This change has no effect on Technical Specifications or on any system, equipment, operations, or the environment. The referenced FSAR Section is not the basis for any Technical Specifications.

SRASN: PLS-86-044 DOC NO: CN#3406-SE-86-063 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change states that plant personnel are allowed to submit Radiation Protection Recommendations to Health Physics Supervision in addition to their immediate Supervisors.

REASON FOR CHANGE: To increase the margin of safety for plant personnel by enabling them to raise radiation concerns directly with Health Physics.

SAFETY EVALUATION: This change has no effect on Technical Specifications, or on any system, equipment, or operations. The referenced FSAR Section is not the basis for any Technical Specification.

SRASN: PLS-86-045 DOC NO: CN#3405-SE-86-054 SYSTEM: N/A

DESCRIPTION OF CHANGE: These changes are editorial alterations to the description of the site area map and boundaries for establishing effluent release limits.

REASON FOR CHANGE: To provide clarifications in the FSAR and to provide terminology consistent with Technical Specifications (Tech Specs).

SAFETY EVALUATION: These changes correct UFSAR wording to be consistent with Tech Specs and therefore there is no effect on Tech Specs. There is no impact on plant systems, plant equipment, plant operation, or dose calculations for UFSAR evaluated accidents. There is no environmental impact. The accident analysis section of the UFSAR uses the correct definitions of the site boundary as per Tech Specs for all dose calculations to the public.

SRASN: PLS-86-046 DOC NO: CN#3390-SE-86-058 SYSTEM: B21

DESCRIPTION OF CHANGE: This change is a modification to the Startup Test Level 2 criterion concerning Safety Relief Valve (SRV) Low-Low Set Relief Setpoint. It consists of changing the opening and closing tolerances from ±13 psi and ±20 psi, respectively, to ±15 psi.

REASON FOR CHANGE: To conform to the requirements of the Technical Specifications (Tech Specs).

SAFETY EVALUATION: The Setpoint was changed to conform to Tech Specs; therefore there is no effect on either Tech Specs or the margin of safety. The plant and its components continue to function as per their design. The low-low Setpoints used in the FSAR Accident Analysis already were ±15 psi, so this change is consistent with the Accident Analysis. Tolerances on Setpoints do not contribute to causing accidents or malfunctions. There is no environmental impact.

SRASN: PLS-86-047 DOC NO: CN#3390-SE-86-056 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 14.2.12.3.12 was revised to reflect a ± 20-PSI tolerance to the required RCIC discharge pressure of 100 psi above RPV pressure.

REASON FOR CHANGE: To reflect in the FSAR description of the test condition the conservative estimate of the required RCIC head to overcome pump discharge line pressure drop.

SAFETY EVALUATION: This change to the FSAR does not physically affect any plant equipment. The pressure tolerance for the test does not impact plant design or operation and the pressure required is consistent with the design basis. No unreviewed safety question was identified for this change to the FSAR.

SRASN: PLS-86-048 DOC NO: CN#3390-SE-86-057 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 14.2.12.3.20.2 was changed to add a Level 2 Acceptance Criterion to Startup Test 23B to required that the Open Loop Feedwater Control System response satisfy a maximum settling time for step disturbances.

REASON FOR CHANGE: To provide consistency between the FSAR and the Startup Test Procedures.

SAFETY EVALUATION: This FSAR change had no physical effect on any plant equipment and only reflects expected performance criteria. The consequences of accidents are independent of the Feedwater System performance. No unreviewed safety question was identified for this change.

SRASN: PLS-86-049 DOC NO: CN#3339-SE-86-050 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 15.4.4.3.2 was revised to include a discussion of the Operating Loop Valve Lineup when one Recirculation Loop is out of service.

REASON FOR CHANGE: To supplement the discussion in the FSAR on the operation with one loop out of service.

SAFETY EVALUATION: Plant operation and design are not affected by this change. Previous accident analyses are not affected. The change simply provides clarification in the FSAR on the operation with one Recirculation Loop out of service. No unreviewed safety question was identified for this change to the FSAR.

SRASN: PLS-86-050 DOC NO: CN#3441-SE-86-028 SYSTEM: P53

DESCRIPTION OF CHANGE: The word "rooms" added by CN#3441 to FSAR Section 7.7.1.11.4.3 was changed to "room".

REASON FOR CHANGE: To more accurately reflect as built plant conditions in that there is a single control room.

SAFETY EVALUATION: This FSAR change does not affect the physical plant or operation. The change is editorial only to provide clarification and accuracy. No unreviewed safety questions were identified for this change.

SRASN: PLS-86-051 DOC NO: CN#3562-SE-86-028 SYSTEM: P53

DESCRIPTION OF CHANGE: Section 7.7.1.11.4.3 of the UFSAR is revised to reflect that process streams are analyzed, rather than liquid and gas samples. Also, the designation of makeup water treatment area is changed to water inventory control station area.

REASON FOR CHANGE: The changes are editorial to provide clarification and consistency with GGNS drawings and to reflect as-built plant conditions.

SAFETY EVALUATION: These changes do not affect the physical plant or operation. The changes are editorial only for clarification and consistency with GGNS documents. No unreviewed safety question was identified for these changes.

SRASN: PLS-86-052 DOC NO: CN#3406-SE-86-077 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 12.5.2.1 was revised to reflect the correct title of the Radiation Control Supervisor and the redesignation of the Health Physics Laboratory. The change also deleted the statement that office space would be provided in the Administration Building for the Radiation Control Supervisor.

REASON FOR CHANGE: To provide consistency with the Technical Specifications and to provide an editorially correct description of the facility.

SAFETY EVALUATION: The change to the FSAR is editorial in nature and has no effect on Plant Systems, Equipment, or FSAR Accident Analyses. No safety concerns are involved and no unreviewed safety question was identified.

SRASN: PLS-86-053 DOC NO: CN#3406-SE-86-078 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 12.5.2.1.2 was revised to reflect Portal Monitors rather than Scintillation Portal Monitors, and to reflect that personnel will be required to monitor themselves prior to exiting the Control Building at elevation 133 feet.

REASON FOR CHANGE: To provide an editorially correct description of the facility and operations.

SAFETY EVALUATION: This change to the FSAR is editorial and does not affect plant systems or equipment. "Scintillation" was deleted from the description of the Portal Monitor to allow for improved technology and sensitivity. No new failure modes were introduced and no unreviewed safety question was identified for this change.

SRASN: PLS-86-054 DOC NO: CN#3406-SE-86-076 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 12.1.1.2 was revised to include a requirement for station personnel to receive basic Emergency Preparedness Training. The Radiation Protection Requalification Training was changed from a 3 year cycle to a 2 year cycle. A discussion on contractor and construction personnel training was deleted.

REASON FOR CHANGE: To reflect an editorially correct description of the Radiation Protection Training Program.

SAFETY EVALUATION: This change to the FSAR was editorial to reflect administrative changes. There was no effect on plant systems, equipment, nor accident analyses. No unreviewed safety question was identified for this change.

SRASN: PLS-86-056 DOC NO: MWO-I62771 SYSTEM: N/A

DESCRIPTION OF CHANGE: This maintenance work order (MWO) performed a Flow Verification Test of the Modified Chlorine Detectors Sample Supply Lines installed by Design Change Package (DCP) 86/4017. The Flow Verification Test was performed in accordance with approved Technical Special Test Instruction TSTI-1Z51-86-001-1-S.

REASON FOR CHANGE: To confirm proper installation of Design Change Package (DCP) 86/4017.

SAFETY EVALUATION: No safety concern was created by performance of this test. The test simply verified proper sample flow following implementation of design changes.

SRASN: PLS-86-057 DOC NO: 08-S-04-TEMP 1 R00 SYSTEM: G-17

DESCRIPTION OF CHANGE: Water with an ozone concentration of 0.5-1.0PPM was pumped into the radwaste and plant floor and equipment drains to the receiver tank. The system was then isolated for 4-6 hours. At the end of the period, the ozone concentration was verified to be undetectable.

REASON FOR CHANGE: Ozone is a strong oxidizer and it killed organisms growing in the system.

SAFETY EVALUATION: Ozone decays to O_2 and H_2O and is removed by demineralizers and therefore the process had no detrimental effects on the system or plant. There was no effect on evaluated accidents nor equipment performance. No unreviewed safety question was identified for this process.

SRASN: PLS-86-058 DOC NO: CN#3441-SE-86-080 SYSTEM: P33

DESCRIPTION OF CHANGE: FSAR Section 7.7.1.11.4.1 was revised to incorporate a brief discussion on a method to estimate core damage by relating radionuclide gaseous and ionic species.

REASON FOR CHANGE: To provide an updated discussion of the methodology used at GGNS for estimating core damage.

SAFETY EVALUATION: This change to the FSAR is editorial and simply inserts information describing a core damage evaluation method. There is no effect on previously analyzed accidents, nor equipment performance. No safety concern was identified for this change.

SRASN: PLS-86-059 DOC NO: CN#3304-SE-86-061 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 18.1.22 was revised to eliminate the requirement for using an outside source to provide training on mitigation of core damage. The tense of the description was also changed from future to present.

REASON FOR CHANGE: To provide an updated description on the training program for recognition and mitigation of core damage.

SAFETY EVALUATION: This change to the FSAR has no effect on plant systems, components, nor previously analyzed accidents. The change was editorial and did not involve any safety concern. No unreviewed safety question was identified for this change.

SRASN: PLS-86-060 DOC NO: CN#3582-SE-86-085 SYSTEM: N64

DESCRIPTION OF CHANGE: This change revises the note on sheet 1 of Table 11.3-4 by replacing "1.00 x 10^{3} a" with "1.00 x 10^{5} ci".

REASON FOR CHANGE: To correct a typographical error so that a correct interpretation of the values in the table can be made.

SAFETY EVALUATION: This change to the FSAR is editorial to correct a typographical error. There was no effect on systems, equipment, nor any accident evaluation. No safety concern was identified for this change.

SRASN: PLS-86-061 DOC NO: TSTI-1B33-86-001-01 SYSTEM: B33

DESCRIPTION OF CHANGE: The performance of the test instruction inhibited the motion of the Reactor Recirculation System Flow Control Valve (FCV) by causing the FCV to be locked in the "as-is" position.

REASON FOR CHANGE: To allow maintenance to be performed on the FCV Hydraulic Power Unit.

SAFETY EVALUATION: One of the design features of the system is to fail the FCV "as-is" in the event of a malfunction or failure; thus, no new accident possibilities are created. No credit is taken, in the accident analyses, for the FCV runback function inhibited by this test. The maintenance activity does not involve a change to the Technical Specifications or create an unreviewed safety question.

SRASN: PLS-86-062 DOC NO: CN3421-SE-86-086 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change is the incorporation of FSAR Q&R 423.14(10), which requires that the reactor pressure criteria for startup testing be based on realistic conditions for the test conditions.

REASON FOR CHANGE: To gather more accurate test result data by basing them on actual physical conditions at the plant, and to verify existing margins of safety by utilizing design methodology type predictions adjusted to realistic operating conditions.

SAFETY EVALUATION: This change has no effect on Technical Specifications or plant design. Since the plant is operated normally throughout the testing, there is no increase in the probability of an accident or the consequences of any accident that does occur. This change has no impact on physical plant conditions or on plant operations or on the environment. It verifies existing margins of safety.

SRASN: PLS-86-063 DOC NO: 01-S-06-29, Rev. 0 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change is to describe the requirements of the Independent Verification Program (IVP).

REASON FOR CHANGE: Provides the program requirements and a single management philosophy for establishing the requirements for an independent verification, which is to reduce human errors and improve the quality of normal plant operation.

SAFETY EVALUATION: This change implements in a single procedure the requirements delineated in the Technical Specifications (Tech Specs) and thus has no impact on either Tech Specs or the bases for them. The requirements of the IVP program were developed to decrease the probability of an accident or of a malfunction of equipment important to safety, and to decrease the consequences of an accident, by providing independent verification of quality in plant work.

SRASN: PLS-86-064 DOC NO: CN#3013-SE-86-046 SYSTEM: C11

DESCRIPTION OF CHANGE: This change incorporated Change Notice 3013 into the UFSAR.

REASON FOR CHANGE: To correct typographical errors and to make the UFSAR more accurately reflect plant design and nomenclature.

SAFETY EVALUATION: Two of the items evaluated are typographical corrections and have no impact on the Technical Specifications or on the bases for them. The other items are editorial changes are consistent with Technical Specifications and more clearly explain the intent of the UFSAR. There is no effect on the FSAR accident analysis. The margin of safety is not reduced because this change is consistent with the current version of the Technical Specifications.

SRASN: PLS-86-065 DOC NO: CN#3339-SE-86-047 SYSTEM: N/A

DESCRIPTION OF CHANGE: Revise UFSAR Section 15.4.2 which concerns itself with Rod Withdrawal Error (RWE) while at power.

REASON FOR CHANGE: To reflect terminology and discussion presented in NRC-approved GESTAR-II document.

SAFETY EVALUATION: Design and operation of plant equipment to prevent or mitigate RWE is not affected by this change. The scope of RWE transient analysis is not changed. This change does not affect design and operation of the plant as previously analyzed in the FSAR. RWE components are operated exactly as previously analyzed. Neither the design basis, nor required strength, nor the operation of equipment related to RWE is affected by this change.

SRASN: PLS-86-066 DOC NO: CN#3339-SE-86-049 SYSTEM: N/A

DESCRIPTION OF CHANGE: Revises UFSAR Section 15.4.2, which addresses the Rod Withdrawal Error (RWE) system, and deletes Figures 15.4-1 and 15.4-2.

REASON FOR CHANGE: To reflect RWE analysis nomenclature previously presented in NRC-approved GESTAR-II document.

SAFETY EVALUATION: This change does not affect the scope of RWE transient analysis or the design and operation of the plant to prevent or mitigate an RWE. There is no impact on the Technical Specifications. There is no effect on the margin of safety since plant design and operation as previously analyzed is unchanged.

SRASN: PLS-86-067 DOC NO: CN#3568-SE-86-087 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 10.4.6.2 was revised by adding the word "periodically" to indicate the frequency of the data correlations between the installed process conductivity monitors and independent in-line flow cells for the Condensate Cleanup System.

REASON FOR CHANGE: To accurately reflect current methods of performing the correlation.

SAFETY EVALUATION: This change to the UFSAR is editorial in nature. No functional changes were made to the system and there was no effect on previously analyzed accidents or equipment performance. No unreviewed safety question was identified for this change to the FSAR.

SRASN: PLS-86-068 DOC NO: CN#3364-SE-86-087 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Sections 10.4.6.4 and 10.4.6.5 were revised by incorporating additional discussions concerning the Condensate Demineralizer Resin; however; the discussion addressing data correlation between the installed process conductivity monitors and independent in-line flow cells was omitted.

REASON FOR CHANGE: To incorporate, into the FSAR, responses to NRC questions in accordance with generic letter 81-06.

SAFETY EVALUATION: The frequency of the performance of monitor correlations was addressed in Revision 1 to the updated FSAR. No functional changes were made to the system and there was no effect on previously analyzed accidents nor equipment performance. No unreviewed safety question was identified for this change to the FSAR.

SRASN: PLS-86-069 DOC NO: CN#3545-SE-86-088 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change added the Chilled Water System Chemical Feed Tank to the System Description of the Plant Chilled Water System, (UFSAR 9.2.7.2).

REASON FOR CHANGE: The Chilled Water System Chemical Tank Description was inadvertently deleted from FSAR 9.2.7.2 by FSAR-CN-3300.

SAFETY EVALUATION: This UFSAR change corrected an error made during the FSAR Update. This correction is editorial in nature and did not physically affect any plant equipment. This UFSAR change did not adversely affect plant safety or operations.

SRASN: PLS-86-070 DOC NO: CN#3300-SE-86-088 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change deleted the Chilled Water System Chemical Feed Tank Description from the System Description of the Plant Chilled Water System, (FSAR 9.2.7.2).

REASON FOR CHANGE: When the FSAR was updated it was thought that an alternate means of corrosion control was being utilized in the Plant Chilled Water System.

SAFETY EVALUATION: This FSAR change was in error. The Chilled Water System Chemical Feed Tank (N1P71-A002) does exist and is shown on FSAR Figure 9.2-17. The Tank is utilized, per it's original design intent, to add Corrosion Inhibitors as described in FSAR 9.2.7.2. This FSAR change was corrected by UFSAR Change Notice 3545 in Revision 1 to the UFSAR.

SRASN: PLS-86-071 DOC NO: CN#3546-SE-86-089 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change added, "As required by Plant Administrative Procedures and based on System Classification", to the end of the first sentence of the exception to Regulatory Position C.1, paragraph 2 of Regulatory Guide 1.56, Rev. 1 (July 1978).

REASON FOR CHANGE: To clarify the exception by providing additional information to identify the approved procedures that control the chemical analysis.

SAFETY EVALUATION: This UFSAR change did not change the design intent of the Condensate System. Chemical analyses identified in the exception are required by Plant Administrative Procedures and are not Technical Specification requirements. This UFSAR change did not adversely affect plant safety or operations.

SRASN: PLS-86-072 DOC NO: CN#3372-SE-86-089 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change revised the Project Position for Regulatory Guide 1.56 as stated in FSAR Appendix 3A. The revised position restates the original response for Q & R 281.1 as an exception to Regulatory Position C.1, paragraph 2 of the Regulatory Guide.

REASON FOR CHANGE: To incorporate response to Q & R 281.1 into the UFSAR.

SAFETY EVALUATION: This FSAR change is of an editorial nature and does not affect plant safety. No safety concerns were generated as a result of this FSAR change.

SRASN: PLS-86-071 DOC NO: CN#3546-SE-86-089 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change added, "As required by Plant Administrative Procedures and based on System Classification", to the end of the first sentence of the exception to Regulatory Position C.1, paragraph 2 of Regulatory Guide 1.56, Rev. 1 (July 1978).

REASON FOR CHANGE: To clarify the exception by providing additional information to identify the approved procedures that control the chemical analysis.

SAFETY EVALUATION: This UFSAR change did not change the design intent of the Condensate System. Chemical analyses identified in the exception are required by Plant Administrative Procedures and are not Technical Specification requirements. This UFSAR change did not adversely affect plant safety or operations.

SRASN: PLS-86-073 DOC NO: CN#3449-SE-091 SYSTEM: E12

DESCRIPTION OF CHANGE: FSAR Section 5.4.7.1.1.5 was revised by incorporating a discussion of a method of lowering the RHR Heat Exchanger level to mitigate water Hammer while initiating the RHR steam condensing mode of operation.

REASON FOR CHANGE: To incorporate the response to an NRC question in accordance with generic letter 81-06.

SAFETY EVALUATION: This change to the FSAR does not alter the RHR System operability requirements. There is no effect on previously analyzed accidents or equipment performance, and no unreviewed safety questions were identified for this change.

SRASN: PLS-86-074 DOC NO: CN#3449-SE-86-092 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 5.4.7.2.7 was revised by incorporating additional information on HPCS and RCIC System responses in the event of a pipe failure.

REASON FOR CHANGE: To incorporate responses to NRC questions into the FSAR.

SAFETY EVALUATION: This change to the FSAR simply adds an additional discussion of HPCS and RCIC. There were no physical changes to the plant systems or equipment, and no unreviewed safety question was identified for this change.

SRASN: PLS-86-075 DOC NO: CN#3519-SE-86-093 SYSTEM: P-33

DESCRIPTION OF CHANGE: UFSAR Section 10.4.6.2 was revised to reflect semi-annual verification of the capacity of the condensate demineralizer resins.

REASON FOR CHANGE: To reinstate the requirement into the text of the UFSAR in accordance with MP&L's FSAR Update improvement program.

SAFETY EVALUATION: The change to the UFSAR dose not affect any system function for equipment performance. No unreviewed safety question was identified for this change to the UFSAR.

SRASN: PLS-86-076 DOC NO: CN#3364-SE-86-093 SYSTEM: P33

DESCRIPTION OF CHANGE: FSAR Section 10.4.6.2 was revised to incorporate an additional discussion on the capacity of the condensate demineralizer resins; however, a commitment to verify the capacity on a semi-annual basis was not incorporated with this change.

REASON FOR CHANGE: To incorporate responses to NRC questions in accordance with generic letter 81-06.

SAFETY EVALUATION: The requirement to perform resin capacity verification was incorporated into the updated FSAR by Revision 1. No safety concern was identified for this change to the FSAR. There was no effect on accidents discussed in the FSAR and no effect on equipment or system performance as a result of this change.

SRASN: PLS-86-077 DOC NO: CN#3364-SE-86-094 SYSTEM: N22

DESCRIPTION OF CHANGE: FSAR Section 10.4.6.3 was revised by deleting the phrase "approximately 15 percent of the basic volume of resin annually".

REASON FOR CHANGE: To provide an accurate description of the operations with the Condensate Cleanup System resins.

SAFETY EVALUATION: Deletion of the phrase is an editorial change and has no effect on accident analyses nor system or component operation. No unreviewed safety question was identified for this change to the FSAR.

SRASN: PLS-86-078 DOC NO: CN#3561-SE-86-096 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change revised UFSAR 12.5.3.8.1 to require individuals receiving respiratory training to don the respirator device and perform the appropriate Leak Detection Pressure Test. Also, the second sentence of the second paragraph of UFSAR 12.5.3.8.1 was revised to indicate the qualification criteria individuals must meet prior to being issued respirator devices.

REASON FOR CHANGE: To incorporate an unapproved commitment deletion from the FSAR Update Program and to clarify Respirator Qualification Criteria.

SAFETY EVALUATION: Per MP&L's commitment, (AECM-86/0089), this UFSAR change restores a commitment deletion from FSAR Change Notice 3406, Item 1688. The changes associated with the clarification of qualification criteria are editorial in nature. This UFSAR change did not adversely affect plant safety or operations.

SRASN: PLS-86-079 DOC NO: CN#3406-SE-86-096 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change deleted the first and fifth sentences from the third paragraph of FSAR 12.5.3.8.1. Also, the seventh sentence of paragraph of FSAR 12.5.3.8.1 was revised to indicate that, "related records", were maintained as quality assurance records.

REASON FOR CHANGE: To clarify paragraph three of FSAR 12.5.3.8.1.

SAFETY EVALUATION: The deletion of the first sentence of paragraph three of FSAR 12.5.3.8.1 was considered to be an unapproved commitment deletion, and therefore was reincorporated into the UFSAR via Change Notice 3561. The remaining changes are considered to be of an editorial nature. This FSAR change did not adversely affect plant safety or operations.

SRASN: PLS-86-080 DOC NO: CN#3561-SE-86-097 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change added a sentence to the first paragraph of UFSAR 12.1.1.2 to require the GGNS General Manager and the Radiation Protection Manager to review Plant Design Changes for ALARA Purposes. Also, in the last sentence of the first paragraph of UFSAR 12.1.1.2 "Senior Vice President-Nuclear" was changed to "Vice President-Nuclear Operation".

REASON FOR CHANGE: To incorporate an unapproved commitment deletion from the FSAR Update Program and an administrative change.

SAFETY EVALUATION: Per MP&L's commitment, (AECM-86/0089), this UFSAR change restores a commitment deletion from FSAR Change Notice 3406, Item 1617. The Management Position Title Change is of an administrative nature and did not affect plant safety. No safety concerns were generated by these UFSAR changes.

SRASN: PLS-86-081 DOC NO: CN#3406-SE-86-097 SYSTEM: N/A

DESCRIPTION OF CHANGE: This FSAR change deleted the requirement for the Manager of Safety and Licensing to coordinate ALARA Design Change Reviews with Plant Staff in the first paragraph of FSAR 12.1.1.2. Also, "Manager of Nuclear Services" and "Corporate Health Physicist" were changed to "GGNS General Manager" and "Manager, Radiological and Environmental Services" respectively.

REASON FOR CHANGE: To identify the GGNS Management Positions responsible for the ALARA Program.

SAFETY EVALUATION: The deletion of the requirement for ALARA Design Change Reviews from FSAR 12.1.1.2 was considered to be an unapproved commitment deletion per AECM-86/0089, and therefore was reincorporated into the UFSAR via Change Notice 3561. The remaining GGNS Position Title Changes are of an administrative nature, which did not adversely affect plant safety or operations.

SRASN: PLS-86-082 DOC NO: CN#3468-SE-86-100 SYSTEM: N/A

DESCRIPTION OF CHANGE: The FSAR was changed by deleting a sentence which stated that the Shift Supervisor logs significant plant operations and problems.

REASON FOR CHANGE: To accurately reflect the responsibilities of the Shift Supervisor and Superintendent.

SAFETY EVALUATION: The change is administrative in nature and reflects a change which allows the Supervisor more time to monitor plant performance. There is no impact on any plant equipment. No unreviewed safety question was identified for this change.

SRASN: PLS-86-083 DOC NO: CN#3376-SE-86-105 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 11.4.7 was changed to reflect the storage of contaminated containers and vehicles within the Power Block or designated areas of the controlled area.

REASON FOR CHANGE: To reflect normal work practice and compliance with State and Federal Regulations.

SAFETY EVALUATION: This change to the FSAR has no effect on previously analyzed accidents nor equipment performance, and no unreviewed safety question was identified for the change.

SRASN: PLS-86-084 DOC NO: CN#3544-SE-86-103 SYSTEM: 1E51

DESCRIPTION OF CHANGE: UFSAR Section 7.4.1.1.3.1 was revised to reflect that the RCIC Pump discharges to the feedwater line, not to the Head Cooling Spray Nozzle.

REASON FOR CHANGE: To correct the discrepancy with UFSAR Section 7.4.1.1.3.8, Figure 5.4-10, and the "as built" design of the plant.

SAFETY EVALUATION: The change only corrects an error in the UFSAR. The change does not affect the plant design; it does not affect operating practices, accident analyses, nor equipment performance. No safety concern was identified for this change.

SRASN: PLS-86-085 DOC NO: CN#3555-SE-86-106 SYSTEM: R61

DESCRIPTION OF CHANGE: UFSAR Table 9.5-14 was changed by deleting notes 6 through 11, adding Note 12, and by changing the description of some of the installed equipment.

REASON FOR CHANGE: To reflect the "as built" condition of the Working Station's Communication Systems.

SAFETY EVALUATION: This change was a description change to reflect as built conditions and does not affect system operation nor design. No equipment important to safety was affected and no safety concerns were identified for the change.

SRASN: PLS-86-089 DOC NO: CN#3406-SE-86-076 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change adds a requirement for plant personnel, including contractors, to receive basic emergency preparedness training. To be consistent with plant programs, radiation protection requalification is changed from a 3 year to a 2 year cycle. Requirements in Section 12.1.1.2 for construction personnel are deleted, but are addressed in more detail in Section 13.3, Plant Emergency Plan.

REASON FOR CHANGE: To increase training standards for plant personnel.

SAFETY EVALUATION: This change has no effect on Technical Specifications or the bases for Technical Specifications. The change is administrative in nature, and does not affect plant systems, plant equipment, or accident analysis. No new failure mode is created.

SRASN: PLS-86-090 DOC NO: 1-M51-SU-72-6 SYSTEM: M51
Exception FP-124

DESCRIPTION OF CHANGE: There are 6 drywell fan-coil coolers, each with 2 full capacity fans and 2 full capacity cooling units. UFSAR states, "Normally, one fan and one coil of each fan-coil operate, and the other fan and coil are on standby", for a total of 6 fans and coils operating and 6 on standby. However, no fewer than 8 fans and coils are required to keep the drywell air temperature below the 135 degrees F Technical Specification limit.

REASON FOR CHANGE: To more accurately depict actual plant operating conditions and identify a discrepancy with the FSAR description.

SAFETY EVALUATION: Technical Specifications do not directly address the Drywell Cooling System (DCS). The DCS is not a safety related system and is not required during an accident. With this exception, the DCS continues to operate as designed and no increased loads are placed upon it. Therefore the probability of an accident or of a malfunction of equipment important to safety is not increased. The consequences of an accident or of equipment important to safety is not increased. The margin of safety is not reduced. There is no environmental impact.

SRASN: PLS-86-091 DOC NO: TA 86/0001 SYSTEM: E51

DESCRIPTION OF CHANGE: This Temporary Alteration provided an adjustable gag on the RCIC governor valve.

REASON FOR CHANGE: To prevent the RCIC governor valve from fully opening by limiting the stroke on the hydraulic servomechanism which moves the throttle valve positioning lever. By limiting the governor valve, turbine overspeed events may be reduced/eliminated.

SAFETY EVALUATION: This change has no effect on the Technical Specifications. The probability of an accident is not increased because system operations is consistent with the FSAR analysis. The consequence of an accident is not increased. The change meets Seismic Category I criteria. Since the gag helps the system perform as described in the UFSAR and in Technical Specifications, the probability of an accident or of an equipment malfunction different from any previously evaluated is not increased. The margin of safety is not reduced.

SRASN: PLS-86-092 DOC NO: TA 86-0018 SYSTEM: P21

DESCRIPTION OF CHANGE: Provide a hookup for a portable water demineralizer until the permanent system can be placed back in service.

REASON FOR CHANGE: To provide makeup water treatment capability pending repairs of the permanent system.

SAFETY EVALUATION: The makeup water treatment system is not addressed in the Technical Specifications. No accident involving this system is analyzed in the UFSAR; therefore there is no increase in the probability of an accident or malfunction of equipment important to safety as previously analyzed in the UFSAR. This change creates no possibility of an accident or malfunction related to safety. The makeup water treatment system is not safety related and has no effect on any basis for Technical Specifications. The portable water demineralizer is required only to supply demineralized water and is not required to meet any regulations. There is no effect on effluent levels or the environment.

SRASN: PLS-86-093 DOC NO: CN#3548-SE-86-008 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change added exception B.5.C to Branch Technical Position ETSB No. 11-2 for the Radwaste Building Exhaust Filter Train, Radwaste Storage Tank Vent Filter Train, Containment Exhaust Filter Train, and Containment Cooling System Filter Trains listed in UFSAR Table 9.4-14. These exceptions deleted the requirement for DOP (Dioctyl-Phthalate) testing the Upstream HEPA Filter following painting in ventilation zones communicating with the Filter Train.

REASON FOR CHANGE: To eliminate unnecessary Upstream HEPA Filter Efficiency Test.

SAFETY EVALUATION: As stated in UFSAR 9.4.7.3 and 9.4.3.3 the Upstream HEPA Filters perform no safety-related function. The affects of paint fumes on HEPA Filters is one of the potential clogging or loading onto the filter surface which would cause an increase in differential pressure across the filter resulting in a low flow condition. High differential pressure indications are alarmed in the Control Room, and require corrective action. Each of the Filter Trains are provided with a Prefilter Upstream of the inlet HEPA Filter. Since the mechanical leakage of the Upstream HEPA Filters is not affected, no safety concerns have been identified as a result of not performing the DOP Test after painting in the ventilation zones communicating with these Upstream HEPA Filters.

SRASN: PLS-86-095 DOC NO: CN#3441-SE-86-032 SYSTEM: VAR

DESCRIPTION OF CHANGE: Incorporate FSAR Q & R 211.114 into the UFSAR. This is an insertion into the UFSAR describing which parts of Reactor Coolant Pressure Boundary Leakage Detection Subsystems have instrument readings in the Facility Control Room.

REASON FOR CHANGE: To provide Control Room operators with concise information on what kind of instrument readings are available in addition to alarms and sump level readings.

SAFETY EVALUATION: This is a change to the UFSAR only and is not a physical change to the facility. Therefore the probability of an accident or of a malfunction of equipment important to safety is not increased. No possibility of a new accident or malfunction is created. The consequences of an accident or of a malfunction is not increased. The margin of safety is not reduced. There is no environmental impact.

SRASN: PLS-86-096 DOC NO: MWO-F62136 SYSTEM: P44

DESCRIPTION OF CHANGE: This change relocated the Plant Service Water Chemical Addition System to the facility contractor parking lot and changed the location of the injection piping tie-in point to the Plant Service Water System.

REASON FOR CHANGE: To improve the ability to contain and control spilled chemicals.

SAFETY EVALUATION: The PSW and Chemical Addition Systems are not addressed in Technical Specifications. As only existing equipment is relocated, the FSAR accident analysis is unaffected, and no possibility for a new accident or malfunction scenario is created. The probability of an accident is not increased. The consequences of an accident or of a malfunction of equipment important to safety is not increased. The margin of safety is unaffected.

This change is necessary to comply with environmental regulations since the chemicals must be contained as required by the Spill Prevention Control and Countermeasures Program. It will improve the plant ability to contain and control chemicals and therefore will result in a reduced environmental impact than previously evaluated. The effects of a spill will be contained onsite. There is no effect on the Environmental Protection Plan or on effluent levels or on Power levels.

SRASN: PLS-86-098 DOC NO: CN#3585-SE-86-018 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change incorporated Plant Modification and Construction directives into the GGNS Operation Manual and revised UFSAR 13.5 to include Volume 15 of the GGNS Operations Manual. Also, UFSAR 13.5.3.9 was added by this change.

REASON FOR CHANGE: To include Plant Modification and Construction Directives into the GGNS Operations Manual and revise UFSAR 13.5 to reflect the addition.

SAFETY EVALUATION: Addition of the Plant Modification and Construction Directives into the GGNS Operation Manual did not adversely affect plant safety. No accident analysis is affected, no new failure modes are introduced, and no Technical Specifications are affected by this UFSAR change. No safety concerns have been identified as a result of this change.

SRASN: PLS-86-099 DOC NO: TSTI-1J11-86-001-0-S SYSTEM: J11

DESCRIPTION OF CHANGE: The performance of the test procedure involved the receipt, inspection, and handling of 2 Fuel Pins to rework Fuel Bundle XNA233; and it involved the preparation of defective Fuel Pins for shipment to the vendor.

REASON FOR CHANGE: To replace defective Fuel Pins in Fuel Bundle XNA23.

SAFETY EVALUATION: No safety concern was identified for the performance of the test procedure. The 2 Fuel Pins were handled in the same manner as that described in the FSAR for 2 Fuel Bundles and therefore had no effect on previously analyzed accidents or equipment performance.

SRASN: PLS-86-101 DOC NO: 04-1-01-C41-1, TCN#8 SYSTEM: C41

DESCRIPTION OF CHANGE: This TCN changed the administratively-controlled position of stop-check valve C41-F151 from normally locked open to normally locked closed.

REASON FOR CHANGE: Administratively controlling C41-F151 open serves no useful purpose. This valve is the inboard containment isolation valve for spare Standby Liquid Control system containment penetration No. 61.

SAFETY EVALUATION: This change will further enhance the containment integrity of spare penetration No. 61 and associated piping by assuring stop-check valve C41-F151 is normally locked closed. Administrative control of the valve is still maintained to assure proper valve position. This change did not adversely affect plant safety or operations.

SRASN: PLS-86-103 DOC NO: CN#3502-SE-86-144 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 12.3.2.2.2 was revised by incorporating additional information describing the administrative controls to ensure access is restricted to the fuel transfer tube area during periods of fuel movement through the transfer tube.

REASON FOR CHANGE: To incorporate, into the FSAR, commitments made to the NRC in responses to questions.

SAFETY EVALUATION: There is no physical change to the plant equipment. The change is editorial in nature and only describes administrative controls. No unreviewed safety question was identified for this change to the UFSAR.

SRASN: PLS-86-104 DOC NO: CN#3565-SE-86-045 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change revised the definition of "maximum position" and "stroke" in UFSAR Section 5.4.1.8.1.

REASON FOR CHANGE: To provide consistency in the working definition of these words with approved GGNS Operating Procedure 04-1-01-B33-1 and Technical Specification Figure B3/4.2.3-1.

SAFETY EVALUATION: This UFSAR change did not affect physical plant operations or safety. This was a software change only. No safety concerns have been identified as a result of this UFSAR change.

SRASN: PLS-86-105 DOC NO: CN#3515-SE-86-0137 SYSTEM: P-75

DESCRIPTION OF CHANGE: Section 8.3.1.1.4.2.13 was added to the UFSAR to provide a discussion of the HPCS diesel engine maintenance program and to reflect a fixed calendar frequency for maintenance.

REASON FOR CHANGE: To incorporate, into the UFSAR, commitments made in responses to NRC questions.

SAFETY EVALUATION: This change to the UFSAR does not physically affect any plant equipment. The change only presents a discussion of the HPCS maintenance program and has no effect on analyzed accidents nor equipment performance. No unreviewed safety question was identified for this change.

SRASN: PLS-86-106 DOC NO: CN#3515-SE-86-0123 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 8.3.1.1.4.1.2 was revised to incorporate a discussion on actions and operations to assure a diesel generator will respond to an automatic start signal after completion of, and during, a periodic test.

REASON FOR CHANGE: To incorporate, into the UFSAR, the response to NRC Question 040.97.

SAFETY EVALUATION: No equipment or operational changes are involved. The change only adds a description to the UFSAR on the funtioning of equipment. No unreviewed safety question was identified for this change.

SRASN: PLS-86-107 DOC NO: CN#3526-SE-86-0136 SYSTEM: C11-2

DESCRIPTION OF CHANGE: A sentence was added to UFSAR Section 15.4.2.2.2 stating that the system operating instruction for RCIS requires the operator to determine the cause of a rod block before further rod withdrawal can take place.

REASON FOR CHANGE: To incorporate, into the UFSAR, the commitment made to the NRC in response to Question 232.3.

SAFETY EVALUATION: This change to the UFSAR is administrative in nature and does not affect any previously analyzed accident nor any equipment performance. No safety concern was identified for this change.

SRASN: PLS 86-108 DOC NO: FSAR CN #3604-SE-86-0160 SYSTEM: E12

DESCRIPTION OF CHANGE: UFSAR Section 6.5.2.2 was changed by deleting the 30 minute time limit for operator action if a LOCA occurs and the containment pressure is less than 9 psig.

REASON FOR CHANGE: To clarify operator action following receipt of a LOCA.

SAFETY EVALUATION: This change supports the Chapter 15 analysis without requiring containment spray to be initiated unnecessarily 30 minutes after receipt of any LOCA signal. This change only clarifies operator response to LOCA signals, and does not lead to any accident different from that described in the FSAR nor cause equipment to operate outside of design conditions.

SRASN: PLS-86-109 DOC NO: FSAR CN#3588 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 13.2.1.3 was revised by the incorporation of a discussion concerning the training required by employees prior to his or her entering a radiation area; and, a discussion on respiratory training and certification of respirator fit was also incorporated.

REASON FOR CHANGE: To incorporate into the FSAR those commitments made in response to NRC Questions.

SAFETY EVALUATION: No safety concern was identified for this change to the FSAR. The change simply adds a discussion to section 13.2.1.3 of the FSAR to reflect actual plant procedures relative to training. No unreviewed safety question was identified for this change.

SRASN: PLS -86-110 DOC NO: FSAR CN#3567 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 13.2.1.2.5 was revised to reflect that the Technical Specifications are discussed in the maintenance training program; and, mitigation of core damage is addressed commensurate with personnel responsibility.

REASON FOR CHANGE: To reflect commitments based on responses to NRC Questions.

SAFETY EVALUATION: This change to the FSAR simply provides clarification of the training program and does not physically affect any system or component. No unreviewed safety question was identified.

SRASN: PLS-86-111 DOC NO: 01-S-04-2 (CN#3567) SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 13.2.2.1.2 was revised by deleting an asterisk for items 2 and 14 to reflect that the control manipulations involving reactivity changes are required to be performed by licensed operators on a biennial basis rather than annually. Also, Item 24 was added to reflect that annual control manipulations are required for evolutions involving loss of all feedwater (normal and emergency)

REASON FOR CHANGE: To correct the UFSAR and reflect required control manipulations as stated in NUREG-0737.

SAFETY EVALUATION: There was no safety concern identified for this change to the UFSAR. The change in frequency of performing the identified control manipulations has no effect on previously analyzed accidents or equipment performance.

SRASN: NPE-86-001 DOC NO: CN-Z10-03 SYSTEM: Z10

DESCRIPTION OF CHANGE: The wall mounted door stop for fire-rated door OC-220 was removed and a floor mounted door stop installed.

REASON FOR CHANGE: To restore the original design intent of the door stop. The wall mounted stop no longer functioned correctly due to new equipment obstructing the full swing of the door.

SAFETY EVALUATION: This change merely restores the original design intent to protect the integrity of the fire-rated door. No safety concern was identified for this change.

SRASN: NPE-86-002 DOC NO: CN-A30-38 SYSTEM: N-11

DESCRIPTION OF CHANGE: Insulation was removed from mainsteam piping to accommodate thermal pipe movements. In some cases, the thickness was reduced beyond the tolerances allowed by specifications.

REASON FOR CHANGE: To accommodate the pipe movements due to thermal expansion and contraction.

SAFETY EVALUATION: Each case was analyzed and identified as "acceptable as-is" or work was identified to make the condition acceptable. No new failure modes were introduced, and no unreviewed safety questions were identified for this change.

SRASN: NPE-86-004 DOC NO: CN-Z10-02 SYSTEM: Z10

DESCRIPTION OF CHANGE: The wall mounted door stops for fire-rated doors OC-709, OC-710, and OC-711 were removed and floor mounted door stops installed.

REASON FOR CHANGE: To restore the original design intent of the door stops. The wall mounted stops no longer functioned correctly due to new equipment obstructing the full swing of the doors.

SAFETY EVALUATION: This change merely restores the original design intent to protect the integrity of the fire-rated doors. No safety concern was identified for this change.

SRASN: NPE-86-007 DOC NO: CN-V21-01 SYSTEM: V10

DESCRIPTION OF CHANGE: The wall mounted door stops for fire-rated doors OR-103 and 1T-314 were removed and floor mounted door stops installed.

REASON FOR CHANGE: To restore the original design intent of the door stops. The wall mounted stops no longer functioned correctly due to new equipment obstructing the full swing of the doors.

SAFETY EVALUATION: This change merely restores the original design intent to protect the integrity of the fire-rated doors. No safety concern was identified for this change.

SRASN: NPE-86-009 DOC NO: DCP-82/3116 Rev.0, 1,2,3,4 and 5 SYSTEM: C93

DESCRIPTION OF CHANGE: This design change package provided uninterruptible electrical power to the Emergency Response Facility Information System (ERFIS) Equipment

REASON FOR CHANGE: To power the ERFIS System, so that it will function during accident conditions even if normal electrical power is lost.

SAFETY EVALUATION: This modification did not change the design intent of the ERFIS, and only provided proper electrical power and signal circuits to the system's components. The electrical race way components associated with this change were designed for seismic loads as required, and were installed in accordance with applicable codes and standards. This change did not adversely affect plant safety or operations.

SRASN: NPE-86-012 DOC NO: DCP-84/4048 SYSTEM: F16

DESCRIPTION OF CHANGE: This change replaced low density spent fuel racks in the spent fuel pool with high density spent fuel racks, increasing its holding capacity from 1270 spent fuel bundles to 4348. Also, an equipment storage rack capable of holding 27 control rods, 9 control rod blade guides, 9 defective fuel canisters will be included with the high density fuel racks in the spent fuel pool.

REASON FOR CHANGE: To increase the storage capacity of the spent fuel pool.

SAFETY EVALUATION: This safety evaluation addresses the limited scope associated with the installation (not operation) of the high density spent fuel racks; i.e., no spent fuel stored in the installed racks. Seismic and structural analyses indicate that these racks meet all NRC structural acceptance criteria. There is no increase in the probability of fuel damage from any accident, nor is there a possibility of an accident or of a malfunction of safety-essential equipment that is different from any previously evaluated. No significant reduction in any safety margin is caused by this change. This change was not implemented until NRC permission was received.

SRASN: NPE-86-013 DOC NO: DCP84/4049 SYSTEM: F16

DESCRIPTION OF CHANGE: This design change package removed the existing containment fuel storage racks and replaced them with new high density storage racks.

REASON FOR CHANGE: To increase the storage capacity of the upper containment pool from 170 to 800 fuel assemblies.

SAFETY EVALUATION: This change meets all of the NRC structural acceptance licensing criteria. All loads remain within allowable limits and structural integrity is maintained under all credible circumstances. Engineering evaluations have been performed to address fuel damage from an equipment drop onto the spent fuel, thermal hydraulic concerns of fuel pool cooling, seismic events, spent fuel assembly drop, and natural disasters. The evaluations concluded that the change will not involve a significant increase in the consequences of a previously evaluated accident. There is no impact on any other system. High density spent fuel racks were not utilized until NRC approval of the technical specification change was received. No unreviewed safety questions have been identified as a result of this change.

SRASN: NPE-86-014 DOC NO: DCP-85/0098 SYSTEM: N23

DESCRIPTION OF CHANGE: This design change package installed permanent test connections with manual isolation valves in each startup vent line for feedwater heaters N1N21B006A&B and N1N19B002C.

REASON FOR CHANGE: To provide an alternate means of determining operating level within the feedwater heaters.

SAFETY EVALUATION: This modification did not change the design intent of the feedwater heater drains and vents. Piping changes associated with this change were designed and installed in accordance with applicable codes and standards. No unreviewed safety questions have been identified for this change. FSAR Section 10.3.3 states that the portion of the main and reheat system described has no safety-related function as discussed in Section 3.2.

SRASN: NPE-86-018 DOC NO: DCP-85/3136 SYSTEM: E51

DESCRIPTION OF CHANGE: This design change package added a second breaker between the class 1-E bus and the RCIC trip & throttle valve, which is a non-class 1-E load. Also, a non-class 1-E space heater for the valve was disconnected.

REASON FOR CHANGE: To bring Grand Gulf Nuclear Station into compliance with UFSAR Chapter 3 Appendix 3A, which requires isolation between the Class 1-E bus and the non-class 1-E load. The space heater was disconnected per vendor directive.

SAFETY EVALUATION: Addition of a second breaker ensures compliance with NRC Reg. Guide Section 1.75. Isolation requirements of system will be met by adding the second breaker, and degradation of class 1-E power source which could be caused by any fault in non-class 1-E loads will be prevented. Space heater is not needed per vendor directive.

SRASN: NPE-86-019 DOC NO: DCP-82/590 SYSTEM: P47

DESCRIPTION OF CHANGE: This design change package provided the capability to direct plant service water system's Radial Wells 1,3 and 5 discharge to the Mississippi River via new recirculation lines at each pump.

REASON FOR CHANGE: To purge any sand and/or sediment that may accumulate in an idle Radial Well before supplying well water to the Plant Service Water System.

SAFETY EVALUATION: As stated in FSAR 9.2.10.3, the Radial Well System has no safety-related function. Reduction of the amount of sand and/or sediment in the Plant Service Water System (PSW) reduces the possibility of malfunction of equipment serviced by the PSW. Therefore, this change is considered to be an enhancement with no adverse safety or operations impact.

SRASN: NPE-86-020 DOC NO: DCP-83/278 SYSTEM: G18

DESCRIPTION OF CHANGE: This Design Change Package replaced the Waste Metering Pumps (NSG18C001A,B, and C) with new 50 GPM Centrifugal Type Waste Transfer Pumps (NSG18C005A,B, and C) in the Solid Radwaste System. Also, the new pumps were provided with a common suction header to permit waste transfer and recirculation from any of the Waste Holding Tanks (NSG18A001A, B, and C); and new dirty Radwaste Floor Drains were added to each Waste Holding Tank Pit Area.

REASON FOR CHANGE: The Waste Metering Pumps proved to be inadequate due to equipment reliability concerns, pump maintenance requirements, and ALARA considerations.

SAFETY EVALUATION: This Solid Radwaste System Modification did not adversely affect plant safety or operations. The new pumps and associated piping changes were designed and installed in accordance with applicable codes and standards. The consequences of a leak or failure of the new equipment installed by this change is enveloped by the analysis presented in UFSAR 15.7.2 and 15.7.3. Safety Evaluation of the Radwaste Building structural changes associated with this modification will be addressed in a later report. No unreviewed safety questions have been identified for this change.

SRASN: NPE-86-021 DOC NO: DCP-83/277 SYSTEM: VAR

DESCRIPTION OF CHANGE: This design change package installed the necessary components to remotely obtain Radwaste Slurry samples from various tanks in the liquid and solid Radwaste Systems.

REASON FOR CHANGE: To reduce operating personnel radiation exposure (ALARA) while obtaining representative samples for 10CFR61 waste classification.

SAFETY EVALUATION: This modification did not change the design intent of the liquid or solid Radwaste Systems. Piping and electrical components installed by this change were designed and installed in accordance with applicable codes and standards. The size and contents of the new sampling system components are such that the consequences of a leak or failure is enveloped by the analysis presented in FSAR 15.7.2 and 15.7.3. No unreviewed safety questions have been identified for this change.

SRASN: NPE-86-022 DOC NO: DCP-82/444 SYSTEM: G46

DESCRIPTION OF CHANGE: This design change package replaced a temporary flow indicator in the Fuel Pool Cooling and Cleanup (FPCC) System with a permanent flow indicator G46-FI-R124.

REASON FOR CHANGE: To assist local operators in verification of proper precoat flow rates when precoating an FPCC filter demineralizer.

SAFETY EVALUATION: This modification did not change the original design intent of the FPCC System. All piping changes associated with this change were designed and installed in accordance with applicable codes and standards. This change is considered to be an enhancement with no adverse safety or operations impact.

SRASN: NPE-86-023 DOC NO: DCP-85/0062 SYSTEM: G33

DESCRIPTION OF CHANGE: This design change package installed manual isolation valves in reactor water cleanup system (RWCU)return lines 6"DBB-71 and 6"DBB-88.

REASON FOR CHANGE: To allow feedwater header isolation for maintenance work.

SAFETY EVALUATION: This modification did not change the design intent of the RWCU System. The modified piping and new manual isolation valves were evaluated and found to meet all applicable design requirements. The new manual isolation valves installed by this change are administratively controlled to assure proper valve position. No unreviewed safety questions have been identified for this change.

SRASN: NPE-86-024 DOC NO: DCP-84/0109 SYSTEM: VAR

DESCRIPTION OF CHANGE: This design change package replaced the Auxiliary Boiler Circulating Pump's (NSN12C006A-D)Shaft Packing with mechanical type shaft seals. Also, the Turbine Building Cooling Water System (TBCWS) Supply and return lines were disconnected and capped at the Auxiliary Boiler Gland Seal Cooler.

REASON FOR CHANGE: The Mechanical Type Shaft Seals reduced overall Pump Leakage.

SAFETY EVALUATION: As stated in FSAR 9.2.9.3 and 9.5.9.3 the TBCWS AND Auxiliary Steam System perform no safety related functions necessary for safe reactor shutdown. All piping changes associated with this change were designed and installed in accordance with applicable codes and standards. This change is considered to be an enhancement with no adverse safety or operations impact.

SRASN: NPE-86-025 DOC NO: DCP-86/4017 SYSTEM: Z51

DESCRIPTION OF CHANGE: This design change package installed new sample probes, sample supply lines, sample supply manual isolation valves, and sample return lines for the Control Room HVAC System's Chlorine Detectors (QSZ51 as N040 A & B).

REASON FOR CHANGE: The Chlorine Detector sample blower could not draw an adequate sample due to supply duct static pressure. The manual isolation valves were provided to isolate the detectors for calibration purposes.

SAFETY EVALUATION: This modification did not change the design intent of the Control Room HVAC System's Chlorine Detectors. The sample supply and return lines were designed and installed in accordance with applicable design requirements. The new manual valves installed by this change are administratively controlled to assure proper valve position. This change is considered an enhancement with no adverse safety or operations impact.

SRASN: NPE-86-026 DOC NO: DCP-83/4090 SYSTEM: Z17

DESCRIPTION OF CHANGE: This design change package revised piping and instrument diagram (P&ID) No. M-0050A to show that the 1 1/4" drain line from the Control Building HVAC Fan Coil Unit NSZ17B003-N is routed to a 3" sanitary waste "A" drain rather than the Dirty Radwaste System.

REASON FOR CHANGE: To revise the P&ID to reflect plant as-built conditions.

SAFETY EVALUATION: This drawing change incorporated the original design requirement described in Bechtel System Description SD-0050, Rev. 3. No unreviewed safety questions have been identified for this change.

SRASN: NPE-86-027 DOC NO: DCP-84/4063 SYSTEM: X77

DESCRIPTION OF CHANGE: This design change package provided additional ventilation air flow from the outside air fan discharge to diesel generator control panels 1H22-P113 and 1H22-P115.

REASON FOR CHANGE: To eliminate spot overheating of internal control panel components which could result in standby diesel generator trips and/or component failure.

SAFETY EVALUATION: This modification did not change the design intent of the diesel generator building ventilation system. New ductwork installed by this change was provided with seismic supports and was designed in accordance with applicable codes and standards. This change is considered to be an enhancement with no adverse safety or operations impact.

SRASN: NPE-86-029 DOC NO: CN-U41-20 SYSTEM: U41

DESCRIPTION OF CHANGE: This change notice installed a blank-off plate upstream of the bypass damper for the turbine building filter train N1U41D001.

REASON FOR CHANGE: To eliminate a potential leakage flow path.

SAFETY EVALUATION: As stated in FSAR Section 9.4.4.3, the turbine building ventilation system has no safety-related function. This change only assures that all system flow will be directed through the proper filter train unit. No safety concerns were generated by this change notice.

SRASN: NPE-86-030 DOC NO: MNCR-00556-85 SYSTEM: P81

DESCRIPTION OF CHANGE: This change revised piping and instrument drawing M-1093B (used as UFSAR Figure 9.5-13a) to show a detail of starting air dryer N1P81D045. The change also relabels the air dryer bypass valve "N1P81F084" and labels all other valves and equipment associated with the vendor supplied dryer.

REASON FOR CHANGE: The P81 manual starting air dryer bypass valve and the P81 diesel driven air compressor unloader isolation valve were both labeled N1P82F070.

SAFETY EVALUATION: This change involves only tagging and labeling. The starting air dryer is a non-essential component and this change does not affect its ability to perform its intended function. No other system is affected by this change and no new failure mode or possibility of an accident is created.

SRASN: NPE-86-031 DOC NO: DCP 84/4010 SYSTEM: E51

DESCRIPTION OF CHANGE: This design change package modified the Reactor Core Isolation Cooling system's (RCIC) turbine exhaust sparger (E51-G003) by blocking 83.5 percent of the 1/2 inch diameter holes in the sparger.

REASON FOR CHANGE: To reduce chugging at the sparger by preventing bubble coalesence adjacent to the sparger.

SAFETY EVALUATION: This modification did not change the original design intent of the RCIC turbine exhaust sparger. The sparger changes were analyzed, designed, and approved by General Electric via FDDR No. JB1-2554. The modified sparger meets all applicable design requirements. This change did not adversely affect plant safety or operations.

SRASN: NPE-86-032 DOC NO: DCP-84/4003 SYSTEM: P72

DESCRIPTION OF CHANGE: This Design Change Package installed Lubricating Oil Equalization Kit in each of the four existing Drywell Chillers, (N1P72B001A-N, N1P72B002A-N, N1P72B002B-B, N1P72B001B-B).

REASON FOR CHANGE: To resolve problems associated with frequent Drywell Chiller Trips, resulting from lubricating oil siphoning between compressor units.

SAFETY EVALUATION: As stated in UFSAR 9.2.11.3 the Drywell Chillers perform no safety-related function. The Lubricating Oil Kit Modification was developed by the original Drywell Chiller supplier. This change allowed the Drywell Chillers to function as originally designed. This change is considered an enhancement with no adverse safety or operations impact.

SRASN: NPE-86-033 DOC NO: DCP-84/3106 SYSTEM: VAR

DESCRIPTION OF CHANGE: This design change package replaced various Rosemont Model 1151 and 1152T0280 Transmitters with Rosemont Model 1153D Transmitters. Also, Linear Indication Scales were replaced with Square Root Scales for flow instruments number N1E12R602 A & B and N1E12R603 A,B & C.

REASON FOR CHANGE: The Rosemont Model 1153D Transmitters are qualified to the requirements of NUREG-0588 to function through a 100 day LOCA. The Indication Scales were changed to provide proper flow readings at their indicators.

SAFETY EVALUATION: This modification did not change the original design intent of the affected systems. Replacement Transmitters and scales were designed and environmentally qualified for their intended service and have the same operating range and accuracy as the original Transmitters. This change is considered to be an enhancement, with no adverse safety impact.

SRASN: NPE-86-034 DOC NO: DCP-84/4000 SYSTEM: B33

DESCRIPTION OF CHANGE: This design change package describes the requirements necessary for the application of Induction Heating Stress Improvement (IHSI) and provides direction for the location of the major components of the IHSI process and establishes temporary sources for electrical power and cooling water necessary to the process.

REASON FOR CHANGE: To convert the residual stress at the inside surface of the recirculation piping from tension to compression, thereby eliminating the major stress factor contributing to intergranular Stress corrosion cracking.

SAFETY EVALUATION: This change eliminates a stress that is the major cause of intergranular stress corrosion cracking found in BWR recirculation piping. The existing design of the Reactor Recirculation System is unchanged and the probability of an accident is reduced. This change does not increase the consequence of any accident and it introduces no new failure modes.

SRASN: NPE-86-035 DOC NO: DCP-84/0226 SYSTEM: N62

DESCRIPTION OF CHANGE: Mechanical Vacuum Pump A/B/C trip alarms N62-XA-L600 A/B/C were originally wired to normally closed auxiliary contacts located in the pump motor breakers logic circuitry. With this wiring configuration, N62-XA-L600 A/B/C would alarm anytime the motor breaker was opened whether by a protective trip or a normal stop. This design change package rewires N62-XA-L600 A/B/C to the instrumentation that directly monitor motor undervoltage and high temperature to provide protective trips.

REASON FOR CHANGE: To connect the alarms such that they alarm only on trip parameters instead of following breaker position.

SAFETY EVALUATION: This change has no effect on any system function or any equipment essential for safety. It simply reconnects the alarms so that they follow correct trip parameters.

SRASN: NPE-86-036 DOC NO: CN-3433 SYSTEM: P11

DESCRIPTION OF CHANGE: This change to the UFSAR is a clarification of the level setpoint of the Condensate Storage Tank (CST) at which the High Pressure Core Spray (HPCS) and Reactor Core Isolation Cooling (RCIC)systems transfer pump suction from the CST to the Suppression Pool.

Previously FSAR Section 6.3.2.2.1 stated that "Vortex formation in the condensate storage tank is precluded by providing approximately 2-1/2 feet submergence for the suction piping entrance at the time of switchover and by the use of a vortex breaker". The 2-1/2 feet submergence" was inappropriately changed to "3/4-foot submergence" based upon the fact that the vortex breaker was 3/4-foot below the HPCS/RCIC pump suction transfer setpoint of 1'-7 1/2". FSAR Change Notice 3433 revises Section 6.3.2.2.1 to reflect the correct 2-1/2 feet submergence.

REASON FOR CHANGE: The CST level transmitters for the HPCS/RCIC systems tap into the suction piping at such a distance from the CST that a head differential of 3.7 minimum feet exists between the transmitters and the CST level at the transfer setpoint during HPCS and RCIC rated flow conditions. The level transmitters are set to provide pump suction transfer at a CST level of 1 foot-7 1/2 inches measured by the transmitters. The actual transfer occurs when the level reaches 1'-7 1/2" plus 3.7' (head difference) or 5'-4" above the floor of the CST. This corresponds to 4'-7" above the pump suction piping inlet. During the transfer, CST drawdown will be 1'-11" yielding an actual tank level of 3'-5" or 2'-8" submergence of the suction pipe inlet.

This change revises FSAR Section 6.3.2.2.1 to reflect the correct 2-1/2' submergence of the suction pipe inlet.

SAFETY EVALUATION: This change does not increase the probability of occurrence for those accidents which require the CST. Since adequate submergence of the HPCS/RCIC pump suction piping exists to prevent vortex formation and air entrapment, the probability of a malfunction of HPCS or RCIC due to either of these phenomena is not increased. CST inventory required by Technical Specifications is not changed. This change does not constitute a physical change to the facility as described in the FSAR.

SRASN: NPE-86-038 DOC NO: NPEFSAR 86-0049 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 9.3.1.2 was revised to reflect that the ADS booster compressor discharge pressure of 160 psig is nominal and is the operating pressure for normal operation, not the minimum pressure required to operate the ADS valves.

REASON FOR CHANGE: To provide a correct description of the system operation and pressure.

SAFETY EVALUATION: This change to the UFSAR does not modify equipment nor affect equipment operation. The change only clarifies the UFSAR description of the system operation and pressure. No unreviewed safety question was identified for this change.

SRASN: NPE-86-39 DOC NO: NPEFSAR-86/0052 SYSTEM: N/A

DESCRIPTION OF CHANGE: Revise paragraph (1) on page 3A/1.48-1 to delete the statement, "with the exception that 50 percent SSE and SSE were not combined with any Dynamic Events associated with the upset or faulted plant conditions".

REASON FOR CHANGE: To reflect the actual Design Loading Combinations for NSSS and Non-NSSS Code Class 1,2, and 3 components provided in Tables 3.9-2 and 3.9-17 of the UFSAR.

SAFETY EVALUATION: The combinations used in Tables 3.9-2 and 3.9-17 are in compliance with Regulatory Guide 1.48, paragraph c.1. Therefore, this change does not increase the probability of occurrence of an accident previously evaluated in the FSAR, nor does it affect the structural integrity of the affected piping systems.

SRASN: NPE-86-040 DOC NO: NPEFSAR-86/0047 SYSTEM: N/A

DESCRIPTION OF CHANGE: This change Revised Table 3.9-2 of the UFSAR to reflect the latest NRC requirements for all NSSS ASME Code Class 1,2, and 3 piping systems which are required to function for safe shutdown under postulated events. Note 2 of this table refers to the older Interim Technical Position instead of the latest requirements of the NRC's "Evaluation of Topical Report-Piping Functional Capability Criteria". All NSSS ASME piping required to function for safe shutdown are designed per this criteria.

REASON FOR CHANGE: To update UFSAR Table 3.9-2. To reflect the requirements of the NRC for all NSSS ASME Code Class 1, 2, and 3 piping systems which are required for safe shutdown under postulated events.

SAFETY EVALUATION: All NSSS ASME piping required to function for safe shutdown are designed per NRC requirements. This change does not increase the probability of an accident previously evaluated in the FSAR or affect the structural integrity of the affected piping systems.

SRASN: NPE-86-041 DOC NO: NPEFSAR-86/0030 SYSTEM: N/A

DESCRIPTION OF CHANGE: Revision of the UFSAR pages 3-viii, 3.10-3, and 12.5-10. This change clarifies the minimum shielding required during fuel handling operations and also clarifies information regarding the seismic qualification of NSSS equipment.

REASON FOR CHANGE: To be consistent with the original design criteria used by G. E. and to add and clarify information regarding seismic qualification of NSSS equipment that was inadvertently deleted in FSAR Amendment 31.

SAFETY EVALUATION: This is a software only (SWO) change to clarify shielding limit to be consistent with original G. E. design and to add & clarify information regarding seismic qualification of NSSS equipment that was inadvertently deleted in a previous revision. No plant equipment is affected. No possibility of a new accident or malfunction of equipment important to safety as previously evaluated in the FSAR is created.

SRASN: NPE-86-042 DOC NO: NPEFSAR-86/0071 SYSTEM: P53

DESCRIPTION OF CHANGE: Change position of instrument root valves N1P53FX214/215/182 from closed position to open position.

REASON FOR CHANGE: To accommodate pressure controller IN33-PC-R019 installed by DCP-83/021 and air operators for valves N1P43F265 A/B installed by DCP-82/831.

SAFETY EVALUATION: This valve and the system of which it forms a part are non-safety related. Failure of this valve will not compromise any safety related component or prevent safe reactor shutdown or cause a malfunction of equipment important to safety different from any previously evaluated.

SRASN: NPE-86-043 DOC NO: NPEFSAR-86/0081 SYSTEM: P53

DESCRIPTION OF CHANGE: This change inserted Computer Point 2P53-N037 into drawing M-1067G which was inadvertently omitted when Design Change Package 83/0566 was incorporated.

REASON FOR CHANGE: To correct UFSAR Figure 9.3-2f.

SAFETY EVALUATION: This change does not alter the Instrument Air System itself. The Instrument Air System has no safety related function, and this change does not compromise any safety related component or prevent Safe Reactor Shutdown in the event of Instrument Air Failure. This change is soft-ware only and has no impact on the facility.

SRASN: NPE-86-044 DOC NO: CN#3598 SYSTEM: N/A

DESCRIPTION OF CHANGE: Parameter values for various limiting transient conditions found in FSAR Chapter 15 were corrected to reflect the lower main steam line pressure drop from the reactor to the main turbine and the larger main steam line volume.

REASON FOR CHANGE: The main steam line pressure setpoint of the main turbine pressure regulator was increased from 920 psig to 950 psig during the Startup Testing Program in order to compensate for a lower-than-expected pressure drop in the main steam lines from the reactor to the turbine. During power operation, the setpoint automatically increases with load rising another 30 psi to 980 psig at rated power.

Original FSAR analysis assumed a baseline pressure regulator setpoint value of 920 psig along with a main steam line pressure drop of 85 psid. Upon discovering the change in the pressure regulator setpoint, it was determined that the main steam line pressure drop was much less than the assumed 85 psid value.

General Electric (GE) and Middle South Services, Inc. (MSS) re-evaluated the FSAR safety analysis to determine any impact caused by reduced main steam line pressure drop. During this re-evaluation, it was discovered that the main steam line volume was larger than the value used in the analysis. The correct volume was used in the re-evaluation.

Both the GE AND MSS results showed similar trends:

(1) The increased pressure setpoint and reduced steam line pressure drop resulted in slightly greater transient pressure rises during limiting events from FSAR Chapter 15 analysis. Slight or negligible decreases in thermal margin (MCPR) were indicated.

(2) The increase in main steam line volume resulted in slightly reduced transient pressure rises during the same events, and MCPR margins improved slightly or negligibly.

The overall effect was minor MCPR values either remained the same or changed by only + 0.01. The MCPR safety limit of 1.06 was never approached. Maximum pressures showed minor increases (less than 10 psi) and peak pressures remained well below transient design pressure.

SAFETY EVALUATION: As shown by the GE and MSS re-evaluation results, there was no degradation of any system or component. MCPR safety limit of 1.06 was never approached while peak pressures remained well below transient design pressure. The changed conditions in the steam lines will result in a slightly different response than originally anticipated, however, in no case were the most limiting conditions evaluated in the FSAR exceeded in the updated analysis. No new failure modes of any component or system have been postulated.

SRASN: NPE-86-045 DOC NO: DCP-84/0056 SYSTEM: P41

DESCRIPTION OF CHANGE: This Design Change Package relocated existing manual globe type isolation valves (Q1P41F107A, Q1P41F107B, and Q1P41F108) downstream of their respective Fill Water Stop - check valve (Q1P41F111A, Q1P41F111B, and Q1P41F019) in the Standby Service Water System.

REASON FOR CHANGE: To permit isolation of the Fill Water Stop-Check Valves for maintenance.

SAFETY EVALUATION: This modification did not change the design intent of the Standby Service Water System. The modified piping and pipe support associated with this change were designed and installed in accordance with applicable Codes and Standards. This change does not adversely affect plant safety or operations.

SRASN: NPE-86-046 DOC NO: CN#3305&3304-CUCNR0052 SYSTEM: N/A

DESCRIPTION OF CHANGE: The change to UFSAR Table 3.9-3C deletes an incorrect reference to Table 3.11-7. Section 3.11.1.1 was changed to delete information on equipment inside the Drywell. Section 18.1.20 was changed to reference a letter on the Environmental Program.

REASON FOR CHANGE: To provide correct descriptions in the UFSAR.

SAFETY EVALUATION: The changes are editorial and are not the result of design modifications to the plant. The changes have no effect on previously analyzed accidents or equipment performance. No safety concern was identified for this change.

SRASN: NPE-86-047 DOC NO: MNCR 0423-85 SYSTEM: N/A

DESCRIPTION OF CHANGE: The main steam line pressure low transmitters were replaced with qualified Rosemont Model 1152GP transmitters.

REASON FOR CHANGE: To meet the response time requirements of Technical Specification 4.3.2.

SAFETY EVALUATION: The new transmitters are qualified and similar to those replaced and the change had no effect on previously analyzed accidents or equipment. No unreviewed safety question was identified for this change.

SRASN: NPE 86-048 DOC NO: CN# 3575-CFSAR-86-063R00 SYSTEM: N/A

DESCRIPTION OF CHANGE: Change the range of the feedwater heating temperature drop of 65° to 70° F in UFSAR Chapter 15, Section 15.1.1.3.3 for a single failure of feedwater heating system to 82° F to reflect actual experienced temperature decrease.

REASON FOR CHANGE: In an actual incident, reported to the NRC in AECM-85/0397, feedwater temperature dropped 82° F.

SAFETY EVALUATION: There is no impact on Technical Specifications. The original accident analysis for the loss of feedwater heating event was based on a feedwater temperature decrease of 100° F.; therefore, the consequences of a temperature drop of 82° F. are bounded by the original analysis. No new failure mode is created. All plant equipment and systems continue to operate within their design limits and the design limits themselves are unaffected. Therefore, neither the probability of an accident or equipment malfunction is increased, nor the consequences of an accident or equipment malfunction.

SRASN: NPE 86-050 DOC NO: FSAR CN# 3500-CFSAR 3500R01 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR 5.4.9.3 was revised by incorporating a detailed discussion on the lowest service metal temperature for the feedwater flued heads.

REASON FOR CHANGE: To incorporate, into the FSAR, commitments made to the NRC in responses to questions.

SAFETY EVALUATION: This change to the UFSAR does not physically affect any plant equipment and only incorporates information on the feedwater flued heads. No unreviewed safety question was identified for this change.

SRASN: NPE-86-051 DOC NO: MNCR 779-86 SYSTEM: P71

DESCRIPTION OF CHANGE: Plant Procedures allow for the operation of the three 850 Ton Chillers, whereas the design basis is for two 850 Ton Chillers and one 200 Ton Chiller to operate.

REASON FOR CHANGE: UFSAR states that the third 850 Ton Chiller does not normally operate and that its purpose is to operate if one of the other 850 Ton Chillers malfunctions. Nuclear Plant Engineering Evaluation finds that operation with three Chillers is within system design capabilities.

SAFETY EVALUATION: Except for containment isolation valves, which are unaffected by this change, the Plan Chilled Water System is not addressed in Technical Specifications. The Plant Chilled Water System is not a safety related system and is not required in order to mitigate the consequences of an accident. The Chilled Water System with three 850 Ton Chillers can provide the cooling capacity required by the Fan/Coil Units supplied with chilled water. No new failure mode is created and the margin of safety is not reduced.

SRASN: NPE-86-052 DOC NO: CUCNR0154 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 8.3.1.1.5.2 was revised by expanding the discussion of the basis for the Reactor Protection System Electrical Protection Assembly Set Points.

REASON FOR CHANGE: To provide consistency with the Technical Specifications.

SAFETY EVALUATION: The change is editorial and does not affect previously analyzed accidents or equipment performance. There was no physical change to the plant, and no safety concern was identified for the change to the UFSAR.

SRASN: NPE-86-053 DOC NO: NPE-FSAR-86/0020 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 5.3.1.6.1 was revised to reflect RPV Surveillance Capsule withdrawal times of 8, 24, and 32 Effective Full Power Years and testing in accordance with ASTM E 185-82.

REASON FOR CHANGE: To provide a correct description that is consistent with the Technical Specifications.

SAFETY EVALUATION: The change to the UFSAR provides a clarification of the Surveillance Program. No physical change was made to the plant. There was no effect on previously analyzed accidents or equipment performance. No safety concern was identified for this change.

SRASN: NPE-86-054 DOC NO: CN-3471-CUCNR-0132 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Tables 8.3-1 and 8.3-2 were revised by changing some of the descriptions in the columns, by adding information concerning the loads carried by Divisions I and II, and by changing the values of some of the loads reflected in the Tables

REASON FOR CHANGE: To reflect the most current load profiles for the Division I and II Diesel Generators.

SAFETY EVALUATION: This change to the FSAR does not affect limiting conditions, surveillance requirements, nor design bases for the Onsite Power System. Diesel Generator Operation was not affected and the integrity of Class IE Power Systems was not compromised. No unreviewed safety question was identified for this change.

SRASN: NPE-86-055 DOC NO: CN-3492-CUCNR0115 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Table 6.5-7 was revised by deleting the reference to the Humidity Controls connected to the Electric Heaters for the SGTS Filter Train.

REASON FOR CHANGE: To provide a correct description of the "as-built" plant conditions.

SAFETY EVALUATION: Basic System Design and Power Interfaces function as originally intended, and simplified Heater Controls introduce no new failure modes. No unreviewed safety question was identified for this change to the FSAR.

SRASN: NPE-86-154 DOC NO: FSAR CN#3534 CUCNR0156R01 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Table A-1 of Appendix 6A was revised to incorporate new values for the safety relief valve discharge line air volumes and maximum values of f L/D. The values are based on as-built conditions and represent a deviation of less than 2% from the previous design criteria values.

REASON FOR CHANGE: To reflect as-built conditions.

SAFETY EVALUATION: This change to the FSAR did not affect the structural integrity of systems or components. The change had no effect on previously analyzed accidents or equipment performance, and no unreviewed safety question was identified for this change.

SRASN: NPE-86-155 DOC NO: FSAR CN#3551 CUCNR0161 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 4.6.1.1.2.4.2.4 was revised to reflect that the Control Rod Drive Temperature Recorder is located in the Auxiliary Building and that excessive temperatures are annunciated in the control room.

REASON FOR CHANGE: To provide a correct description of the location of the Control Rod Drive Temperature Recorder.

SAFETY EVALUATION: This change to the FSAR does not require a change to the Technical Specifications; does not affect any previously analyzed accident; does not affect equipment performance; and does not involve an unreviewed safety question. No safety concern was identified for this change.

SRASN: NPE-86-156 DOC NO: NPE FSAR 86/0077 SYSTEM: N/A

DESCRIPTION OF CHANGE: Note 3, item 1 for section C.2 of Table 9.5-11 of the UFSAR was revised to read "Control Building Elevations (all elevations)."

REASON FOR CHANGE: To reflect that the fire protection systems for all areas of the control building will be included under the Operational Quality Assurance Program.

SAFETY EVALUATION: There was no unreviewed safety question identified for this change. This change had no effect on previously analyzed accidents nor on the performance of equipment. The change simply reflects that elevation 93 ft. is included under the QA program.

SRASN: NPE-86-157 DOC NO: FCR-86/0018 SYSTEM: N/A

DESCRIPTION OF CHANGE: Sections XV.1 and XVII.2 of UFSAR Table 3.2-1 were revised to reflect that seismic category I criteria is applicable for the components identified. Also, the safety classification of the defective fuel storage container was changed from 3 to 2.

REASON FOR CHANGE: To correctly reflect the seismic criteria and to provide consistency throughout the UFSAR.

SAFETY EVALUATION: This change to the UFSAR corrects inadvertent changes that were made in a previous FSAR revision. No change to the physical plant was made and there was no safety concern nor unreviewed safety question identified for this change.

SRASN: NPE-86-158 DOC NO: MPGE-86/063 (CN#3593) SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Table 14.0-3 item 32 was revised to reflect 0.190 seconds rather than 0.140 seconds for the end-of-cycle recirculation pump trip (EOC-RPT) system response time.

REASON FOR CHANGE: To provide consistency with the Technical Specifications. The former value of 0.140 seconds did not include 0.50 second required for breaker arc suppression.

SAFETY EVALUATION: The former value of 140 milliseconds did not include 50 milliseconds for arc suppression following an end-if-cycle recirculation pump breaker trip. This change to the UFSAR did not change the physical plant and did not involve an unreviewed safety question.

SRASN: NPE-86-159 DOC NO: NPE FSAR 86/0068 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 11.5.2.2.2 was revised by deleting a reference to a three way solenoid valve in the description of the offgas post treatment radiation monitor purge valve.

REASON FOR CHANGE: To correct the UFSAR in that the offgas post treatment radiation monitor is purged by two way solenoid valves, not by a three way solenoid valve.

SAFETY EVALUATION: The actual function of the equipment has not been altered. The change is an editorial change with no effect on the physical plant. No unreviewed safety question was identified for this change.

SRASN: NPE-86-160 DOC NO: NPE FSAR CR#86/0078 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 6.3.2.2.1 was revised by deleting two phrases concerning the high drywell pressure signal override of the level 8 HPCS injection valve closure signal.

REASON FOR CHANGE: To provide consistency with other sections of the UFSAR and to reflect HPCS as-built conditions.

SAFETY EVALUATION: This change to the UFSAR is editorial and does not affect the operation of the HPCS. No safety concerns or unreviewed safety questions were identified for this change.

SRASN: NPE-86-161 DOC NO: MNCR 0068-86 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Figure 9.5-5 was revised to reflect the addition of a second 1/4 inch valve (NSP64F445B) in series with valve NSP64F445A located in the 1/4 inch line which bypasses the 4 inch main isolation valve on the ten ton carbon dioxide storage tank.

REASON FOR CHANGE: To reflect the actual physical plant condition.

SAFETY EVALUATION: This change to the UFSAR does not affect system operation or function. No safety concern was identified for this change and there is no unreviewed safety question.

SRASN: NLS-86-001 DOC NO: CN#3405-NLS-SE-86-023 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 2.3.3 was revised to incorporate a discussion of the Meteorological Tower, but the revision did not incorporate the commitment to mow the grass each week in the vicinity of the Tower.

REASON FOR CHANGE: To incorporate responses to NRC questions into the FSAR in accordance with generic letter 81-06.

SAFETY EVALUATION: The commitment to mow the grass was modified to indicate periodic mowing and incorporated into UFSAR Rev.1. The change is not safety-related and does not impact the safety of the plant. No accident analyses or equipment are affected and no unreviewed safety question was identified for this change.

SRASN: NLS-86-002 DOC NO: CN#3506-NLS-SE-86-023 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 2.3.3.1 was revised to incorporate the statement that the grass around the Meteorological Tower will be moved as necessary.

REASON FOR CHANGE: To reinstate the commitment into the FSAR in accordance with the FSAR update Improvement Program and to reflect modification of the commitment which had required weekly moving of the grass.

SAFETY EVALUATION: This change is not safety related and does not impact the safety of the plant. There is no effect on accidents previously analyzed or equipment performance. No unreviewed safety question was identified for this change to the UFSAR.

SRASN: NLS-86-003 DOC NO: CN#3601-NLS-SE-86-030 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change to Appendix 13A updates the resumes of key personnel associated with the operation of GGNS.

REASON FOR CHANGE: To provide the current status of experience for individuals fulfilling GGNS positions.

SAFETY EVALUATION: These changes were administrative in nature and did not affect plant safety. These changes reflect the nomenclature used in Technical Specification Figures 6.2.1-1 and 6.2.2-1. No safety concerns were generated by these UFSAR changes.

SRASN: NLS-86-004 DOC NO: CN#3585-NLS-SE-86-033 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 13.1 was revised to reflect the existing corporate organization.

REASON FOR CHANGE: To provide a current description of the corporate organization in the UFSAR.

SAFETY EVALUATION: The positions discussed for the corporate organization are not addressed in the Technical Specifications. The organization changes reflected by this UFSAR revision had no effect on plant operations, accident analyses, nor equipment performance. No unreviewed safety question was identified for this change.

SRASN: NLS-86-005 DOC NO: CN#3510-NLS-SE-86-0026 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 18.1.29.2 was changed by replacing the referenced AECM number and date with a more current reference number and date.

REASON FOR CHANGE: To reflect the latest response to TMI Requirement II.K.1.10.

SAFETY EVALUATION: This change is editorial in nature. The original commitment exceeded the requirements. The revised commitment meets the requirements and provides more specific details. The design of the plant was not affected and no unreviewed safety question was identified for this change.

SRASN: NLS-86-006 DOC NO: CN-3602-NLS-SE-86-037 SYSTEM: N/A

DESCRIPTION OF CHANGE: This UFSAR change updates information pertaining to Regional and Perched Aquifer Groundwater Wells at GGNS as described in UFSAR Section 2.4.

REASON FOR CHANGE: To incorporate changes required by the NRC.

SAFETY EVALUATION: This UFSAR change only updates the groundwater monitoring description to reflect changes in site conditions. These changes did not reduce the groundwater monitoring capability for GGNS. No unreviewed safety questions have been identified for these changes.

SRASN: NLS-86-007 DOC NO: CN#3468-NLS-SE-86-020 SYSTEM: N/A

DESCRIPTION OF CHANGE: Make FSAR changes to correctly reflect organizational matters and descriptive material in several areas including initiation of preoperational radiological monitoring, Unit 1 design completion dates, Unit 2 construction phase design control, Unit 2 startup and QA during startup, and to clarify that the engineering staffing level is currently established for Unit 1 only.

REASON FOR CHANGE: To cause the UFSAR to accurately reflect organization and description of related areas.

SAFETY EVALUATION: There is no impact on Technical Specifications. There is no impact on the probability or consequences of an accident or of a malfunction of equipment important to safety. These changes have no impact on the margin of safety, nor do they create the possibility of an accident or of a malfunction of equipment important to safety different from any type previously evaluated. There is no impact on the Environmental Protection Plan.

SRASN: NLS-86-008 DOC NO: CN #3468-NLS-SE-86-021 SYSTEM: N/A

DESCRIPTION OF CHANGE: Make FSAR changes to reflect correct organizational information in several areas including startup, maintenance, staffing, engineering and design control.

REASON FOR CHANGE: To cause the UFSAR to accurately reflect current organization.

SAFETY EVALUATION: There is no impact on Technical Specifications. There is no impact on the probability or consequence of an accident or of a malfunction of equipment important to safety. These changes have no impact on the margin of safety, nor do they create the possibility of an accident or of a malfunction of equipment important to safety different from any type previously evaluated. There is no impact on the Environmental Protection Plan.

SRASN: NLS-86-009 DOC NO: CN #3468-NLS-SE-86-022 SYSTEM: N/A

DESCRIPTION OF CHANGE: Make FSAR changes to reflect correct titles and responsibilities of positions in the MP&L organization primarily concerning the offsite organization. Also, makes change to the demography study.

REASON FOR CHANGE: To cause the UFSAR to accurately reflect current organization and demography study.

SAFETY EVALUATION: Technical Specification changes were made as appropriate at the time of the actual organization changes. There is no further impact on Technical Specifications caused by this change. There is no impact on the probability or consequences of an accident or of a malfunction of equipment important to safety. These changes have no impact on the margin of safety, nor do they create the possibility of an accident or of a malfunction of equipment important to safety different from any previously evaluated. There is no impact on the Environmental Protection Plan.

SRASN: NLS-86-010 DOC NO: CN-3468-NLS-SE-86-024 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 13.1.1 was changed by revising or deleting information that describes the GGNS organization and responsibilities.

REASON FOR CHANGE: To reflect the current organization and responsibilities.

SAFETY EVALUATION: These changes are consistent with the Technical Specifications. The changes have no impact or previously analyzed accidents or equipment important to safety. No unreviewed safety question was identified for this change to the FSAR.

SRASN: NLS-86-011 DOC NO: UFSAR 13.1.1-NLS-SE-86-029 SYSTEM: N/A

DESCRIPTION OF CHANGE: FSAR Section 13.1.1 and Table 13.1-1 were changed by combining, adding, and revising the information that describes the GGNS organization and responsibilities.

REASON FOR CHANGE: To reflect current and correct information concerning the GGNS staff.

SAFETY EVALUATION: The change does not provide a basis for any previous or potential accident or malfunction of equipment and does not adversely affect any safety related system at GGNS.

SRASN: NLS-86-012 DOC NO: CN-3600-NLS-SE-86-034 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Chapter 9 was revised to incorporate the results of analyses of a major fire at GGNS. The results assure the operability of the minimum listing of safe shutdown systems.

REASON FOR CHANGE: To address the concern of NRC Generic Letter 86-10 on Fire Protection.

SAFETY EVALUATION: The change to the UFSAR has no impact on the technical specifications; no impact on previously analyzed accidents; and the change has no impact on equipment performance. No unreviewed safety question was identified for this change.

SRASN: NSP-86-001 DOC NO: ODCM Rev. 7 SYSTEM: N/A

DESCRIPTION OF CHANGE: The Offsite Dose Calculation Manual was revised by incorporating minor changes resulting from the 1985 Land Use Census. The change included changes to distance values, pathways, age groups, and origins.

REASON FOR CHANGE: To address the administrative changes resulting from the 1985 Land Use Census.

SAFETY EVALUATION: The change was administrative in nature and did not address equipment operation. The change does not reduce the accuracy nor the reliability of the dose calculations or setpoint determinations. No unreviewed safety question was identified for this change.

SRASN: NSP-86-002 DOC NO: FSAR 14.2.4.4 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 14.2.4.4 - paragraph 2, and 14.2.4.4.c were revised to replace the term "Plant Quality Deficiency Report (PQDR)" with the term "Quality Deficiency Report (QDR)".

REASON FOR CHANGE: To provide the entire Nuclear Production Department with a uniform method of correcting conditions adverse to quality or safety.

SAFETY EVALUATION: This change to the UFSAR dose not alter or diminish the basic controls. The change only reflects an alternate and uniform method for accomplishing the activity. There was no change to safety related equipment. No unreviewed safety question was identified for this change.

SRASN: NSP-86-003 DOC NO: CN#3556-UFSAR11.5 SYSTEM: N/A

DESCRIPTION OF CHANGE: UFSAR Section 11.5.3.1 was changed to indicate that all major radioactive effluent pathways are monitored for radioactivity, but only certain streams are monitored continuously.

REASON FOR CHANGE: To make UFSAR Section 11.5.3.1 consistent with the requirements and guidance of general design criterion 64, Regulatory Guide 1.21, and Section 11.3 of the Safety Evaluation Report.

SAFETY EVALUATION: The change is for clarification only and does not affect the function of existing equipment important to safety nor previously analyzed accidents. No safety concern was identified for this change.