PLANT VOGTLE - UNIT 1
NRC DOCKET 50-424
OPERATING LICENSE NPF-68
10 CFR 50.59(b) ANNUAL SUMMARY REPORT

IE47
1/40

TABLE OF CONTENTS

PLANT VOGTLE - UNIT 1
NRC DOCKET 50-424
OPERATING LICENSE NPF-68
10 CFR 50.59(b) ANNUAL SUMMARY REPORT

CHANGES TO THE FACILITY

86-V1E0001 Replacement of class 1E fuses in the 4160V Class 1E Switchgear 1AA02, 1BA03 and the 125VDC MCCs 1AD1M, 1BD1M. Replacement of a non-class 1E voltage transducer by a Class 1E voltage transducer in the 4160V Class 1E Switchgear 1AA02, 1BA03.

1. The reduction in fuse amperage rate still leaves the circuit requirements well below the fuse rating-hence there will be no impact of significance on the operability of the affected circuits. Because the circuits will function as designed no probability of occurrence of an accident or decrease in margin of safety will result.

2. The reduction in fuse amperage rate still leaves the circuit requirements well below the fuse rating-hence there will be no impact of significance on the operability of the affected circs. Because the circs will function as designed no probability of occurrence of an accident or decrease in margin of safety will result.

3. The reduction in fuse amperage rate still leaves the circuit requirements well below the fuse rating-hence there will be no impact of significance on the operability of the affected circs. Because the circs will function as designed no probability of occurrence of an accident or decrease in margin of safety will result.

86-V1E0002 Trim excess steel from pipe support V1-1411-035-H006.

1. Hanger steel was trimmed to provide additional clearance between hanger steel and a valve to make seismic separation acceptable.

2. Hanger steel was trimmed to provide additional clearance between hanger steel and a valve to make seismic separation acceptable.

3. Not Technical Specification related.

86-V1E0006 Motor driven AFW Discharge Valves. A gear changeout on the motor operators to increase the stroke times to ~ 20 secs.

1. Not addressed in FSAR Sect. 10.4.9 .

2. Components replaced are fully qualified to perform their intended function.

3. Not addressed in the Technical Specifications.

86-V1E0007 Modify 1FV-5154 and 1FV-5155 (Motor Driven AFW Miniflow Valves) by replacing stem plug assembly, operator motor and gears to provide a quicker stroke time.

1. This change is a modification internal to a valve. No new high rotational energy parts are being added.

2. This change is a modification internal to a valve. No new high rotational energy parts are being added.

3. This change is a modification internal to a valve. No new high rotational energy parts are being added.

86-V1E0008 Add a blowout door and a 4' x 5' vent opening in the tendon access wall at Level "B" of the Aux. Building.

1. Change does not affect the function of any equipment or component.

2. Change does not create an accident possibility or involve any equipment/component function.

3. Wall opening does not decrease the design margin of safety.

86-V1E0014 Remove damaged steam generator manway bolts and install helicoil in accordance with Westinghouse procedure SSS2.7.2 Gen-48, Rev. 3.

1. This change returns the steam generator primary manway bolt holes to a reliable condition.

2. This change returns the steam generator primary manway bolt holes to a reliable condition.

3. This change returns the steam generator primary manway bolt holes to a reliable condition.

87-V1E0001 Add 4 (four) stiffener plates to beam connected at Embed plates. Beam is located in Auxiliary Building, Level B, 7'-7" west of column A16, 20'-0" North of column AD.

1. Change involves modification to structural steel beam connection. No system or component is involved.

2. Change involves modification to structural steel beam connection. No system or component is involved.

3. Change involves modification to structural steel beam connection. No system or component is involved.

87-V1N0002 Changed RCP underfrequency relay time to operate from 30 cycles to 24 cycles to meet reactor trip response time on underfrequency.

1. The change brought Reactor Trip Response time within specified limits, therefore it does not increase consequences of an accident or malfunction of equipment.

2. The change brought Reactor Trip Response time within specified limits for UF trip. This does not cause possibility of an accident other type than previously evaluated in FSAR.

3. The change brings Reactor Trip Response Time due to UF within specified limits.

87-V1E0003 Move Security Cameras

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specifications.

87-V1E0004 Decrease update time of Prime CPU.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specifications.

87-V1E0008 Pipe tunnel between NSCW cooling towers vital area barriers upgraded.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specifications.

87-VCE0010 Added additional spacers on tornado damper springs in exhaust duct to vent stack to ensure normal flow would not cause damper to close.

1. Does not affect Post-Accident operation. Does not increase chance or consequences of accident.

2. No new accident conditions are created or old conditions probability increased.

3. Does not affect any Technical Specification basis.

87-V1E0011 Reroute conduit, add unscheduled pullbox, splice cables in new pullbox since 2 cables, 1BB008W.4 and 1BB08WB were inadvertently cut, requiring a splice to restore circuit function.

1. Splices will not affect Circuit. Function conduit rework will not affect system function.

2. Splices will not affect Circuit. Function conduit rework will not affect system function.

3. Splices will not affect Circuit. Function conduit rework will not affect system function.

87-V1E0012 Modification to correct design deficiencies of the Main Steam Line radiation moniters after field testing determination to meet T.O.S. setpoint stated in FSAR section 11.5.

1. Modification is due to a program change for prom. (Alarm only function).

2. Modification is due to a program change for prom. (Alarm only function).

3. Modification is due to a program change for prom. (Alarm only function).

87-V1E0015 Dowel the CVCS PDP motor, pump and fluid drive.

1. Dowels are used for alignment purposes and are not required for proper pump operation.

2. Dowels are used for alignment purposes and are not required for proper pump operation.

3. Dowels are used for alignment purposes and are not required for proper pump operation.

87-V1E0016 Install Solid State disks in Security System CPU's.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0017 Addition of door alarms in PESB.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0019 Install orifice plates in 1-1561 ductwork in order to achieve design air flow and room pressures in Aux. Bldg. rooms.

1. Orifice plate addition did not increase the probability of or the consequences of an accident or malfunction of equipment important to safety as evaluated in the FSAR.

2. The possibility for an accident or malfunction of a different type than any evaluated previously in the FSAR was not created.

3. The margin of safety as defined in the bases for any Technical Specification was not reduced.

87-V1E0020 Repair leaking perforated screen on the carbon beds of filters 1-1531-N7-001 and 1-1561-N7-002.

1. This DCP ensured the carbon beds will perform their design function with no leak path present.

2. The changes made to the carbon beds returned them their original design configuration.

3. The carbon beds will function as originally designed.

87-V1E0021 Place a relief valve in series with existing thermal relief orifice in hydraulic circuit to prevent valve from drifting open from closed position when feedwater isolation signal is not present.

1. Modification prevents inadvertent addition of feedwater to steam generators and has no effect on the evaluated response of valve to a feedwater isolation signal.

2. Relief valve prevents flow through relief orifice at low pressures to prevent inadvertent opening of valve. Change prevents unwanted addition of feedwater to steam generator without introduction of any new malfunction possibility.

3. Change does not effect the basis for any Technical Specification.

87-VCE0022 Add setpoint information for existing temperature switches to the plant setpoint list.

1. Adding setpoint to setpoint list does not affect any possible accident.

2. Addition of setpoint to the setpoint list for a temperature switch.

3. Change adds a setpoint to the setpoint list for a temperature switch only.

87-V1E0023 Increase size of bolt holes on the turbocharger tie plate connecting the turbochargers on the standby diesel generators.

1. Change will allow component to perform design function.

2. Change will allow component to perform design function.

3. Change will allow component to perform design function.

87-VCE0024 Remove the timer from the electric fire pump start circuit and replace existing handswitch in the fire pumphouse with a new switch.

1. The change increases the reliability of the fire pump and decreases the probability of a malfunction of the electric fire pump.

2. The change does not create any new possibility of a malfunction.

3. Technical Specifications are not involved.

87-V1E0025 The DCP adds cables INR0129SK and -VB running from TIS-129 to annunciator cabinet 3. This provides input signal from initiating device TIS 129 to ALB07 F04.

1. The item provides an alarm which doesn't provide a safety related function.

2. The annunciator is not safety related.

3. The TIS is not a Technical Specification item.

87-V1E0026 Access panels were added to the top of the carbon beds for filters 1-1531-N7-001/002 and 1-1561-N7-001/002.

1. The added access doors do not affect the design function of the carbon beds.

2. The added access doors are to aid in the carbon loading and do not affect the design of the beds.

3. The access doors do not affect the safety function of the carbon bed.

87-V1E0027 This allows an increase in dowel pin size. A reduction to two diagonal dower pins instead of four and the slotting of motor feet to allow correct alignment.

1. Dowels are being installed per vendor design.

2. Dowels are being installed per vendor design.

3. Dowels are being installed per vendor design.

87-V1E0028 Add stiffner plate to left bank diesel generator turbo-charger inlet to intercooler and add additional welding on right bank stiffner plate.

1. The proposed change does not affect the operability of the Diesel Generator or other equipment.

2. The proposed change will not increase probability of accident/malfunctions.

3. The proposed change will have no impact on D/G related Technical Specification.

87-V1E0029 Provide parallel circuits through control circuit timers to ensure that timers do not experience premature failure of contacts due to high currents.

1. Change increases the reliability of control circuits and does not increase the probability of accident or malfunction.

2. Valve control circuit will respond exactly as before with reduced chance of failure. No new unevaluated malfunction is possible.

3. The basis for Technical Specification 3.7.1.5 is unaffected.

87-V1E0030 Provide thermal relief valve in hydraulic circuit to prevent actuator cylinder over-pressurization due to temperature increase. Change air pump and alarm pressure switches to correspond to new operating pressures.

1. The changes ensures equipment will not fail during postulated accidents.

2. The change does not create the possibility for malfunction other than the failure of a single MSIV, which is already evaluated in FSAR 10.3.2.3.2.

3. The margin of safety in the basis for Technical Specification 3.7.1.5 is not reduced.

87-V1E0031 Add UPS power to Radio Repeater. Also, redesign repeater room.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0032 Telephones for the Level 1 Turbine Building Lab were not included in the original design for the plant. This was discovered after the 17.2 program was implemented.

1. These telephones are being installed in the Turbine Building and are not safety related and will not increase the probability of occurrence or consequences of a malfunction of safety related equipment or components previously evaluated in the FSAR.

2. The addition of these telephones in the Turbine Building will not create the possibility for an accident or equipment malfunction of a different type other than any evaluated previously in the FSAR.

3. The Technical Specification do not address the PABX Phone System in the Turbine Building and therefore does not decrease the margin of safety defined by the bases for the Technical Specification.

87-V1E0034 Increase Dowel size on Turbine Driven Aux. Feedwater to #12 from #11.

1. Changing dowel size will have no adverse affect on safety.

2. Changing dowel size will have no adverse affect on safety.

3. Changing dowel size will have no adverse affect on safety.

87-V1E0035 Move wire from breaker Aux. switch as terminal points on Aux. switch AF cannot physically accommodate more than 2 wires.

1. The proposed change is a wiring change only due to drawing error, in the same panel with no change in function.

2. The proposed change is a wiring change only, in the same panel with no change in function.

3. The proposed change is a wiring change only, in the same panel with no change in function.

87-V1E0036 Install flexible metal hose and quick-disconnect fittings at filter cartridges 1REP-12444 A&B and 1REPP-12444 A&B. Install flow indicator 1FI-1244A and bypass line for post-accident reduced flow sample.

1. This modification was implemented to meet requirements of NUREG 0737 and to reduce the dose to the Chem. Tech during Accident condition.

2. This modification was implemented to meet requirements of NUREG 0737 and to reduce the dose to the Chem. Tech during Accident condition.

3. This modification was implemented to meet requirements of NUREG 0737 and to reduce the dose to the Chem. Tech during Accident condition.

87-V1E0037 Add ground strap between pre-amp assembly holding screw and screw (mounting) on check source actuator on several radiation monitors.

1. Change ensures proper operation of rad monitors in event of noise interference.

2. Change has no impact upon safety or accident analysis, eliminates noise interference of rad monitors.

3. This change has no impact upon safety or accident analysis.

87-V1E0039 Replacement of Kurz unisolated 4-20 mA output circuit board model #131 with a Kurz model #132 isolated 4-20 mA output circuit board in plant vent/exhaust flow transmitters.

1. This change allows the system to function per design intent, thereby complying with design and licensing requirements.

2. This change allows the system to function per design intent, thereby complying with design and licensing requirements.

3. This change allows the system to function per design intent, thereby complying with design and licensing requirements.

87-V1E0040 Lower the low flow setpoint on the NSCW flow alarm to the Diesel Generator jacket water heat exchanger.

1. Changing alarm setpoint does not increase probability/consequences of safety equipment/component malfunction.

2. Changing alarm setpoint is to eliminate nuisance alarms and does not create new accident/malfunction possibilities.

3. These alarm setpoints do not move beyond conservative range of equipment operation and do not affect Technical Specification margins.

87-V1E0041 Replaces existing incore thermocouple reference junction box RTD hard-line cables with cables environmentally qualified for plant life.

1. The results fall within (the ± 1.01°F) error previously documented for this application in WCAP-8687 Supp. 2-E43G Rev. 1 and therefore should not require a change in overall system accuracy.

2. The results fall within (the ± 1.01°F) error previously documented for this application in WCAP-8687 Supp. 2-E43G Rev. 1 and therefore should not require a change in overall system accuracy.

3. The results fall within (the ± 1.01°F) error previously documented for this application in WCAP-8687 Supp. 2-E43G Rev. 1 and therefore should not require a change in overall system accuracy.

87-V1E0044 Remove and discard clutch strippers and replace gear sets and motor pinion gear in Accumulator Isolation valves 1-HV8808A, B, C, D. Change is dictated by Westinghouse FCN GAEN-10761.

1. FSAR accidents analyzed in 15.6 require valves to operate passively, i.e., remain open. Increased operator reliability will ensure they can be opened if accidentally closed without eliminating manual operation.

2. By decreasing probability of a failure mode, the subject components decrease possibility of accidents or malfunctions not described in the FSAR.

3. This change does not decrease Technical Specification safety margins as discussed in Section 3/4.5.1. Increased reliability increases availability to open as required.

87-V1E0048 Modify the ventilated seal ring openings such that no water will enter cavity through those openings as a result of containment spray.

1. Change will not impact FSAR accidents, change ensures proper sealing of affected items and does not have any effect on other system.

2. Change will not impact FSAR accidents, change ensures proper sealing of affected items and does not have any effect on other system.

3. Change will not impact FSAR accidents, change ensures proper sealing of affected items and does not have any effect on other system.

87-V1E0049 Addition of panels in electrical trenches to provide dust and moisture seals for Diesel Generator Control Panels.

1. This barrier will keep dust and moisture from Control Panels 1-2403-PS:DGISDGB as required. This barrier meets the design requirement of dust and moisture seal.

2. This barrier will keep dust and moisture from Control Panels 1-2403-PS:DGISDGB as required. This barrier meets the design requirement of dust and moisture seal.

3. This barrier will keep dust and moisture from Control Panels 1-24C3-PS:DGISDGB as required. This barrier meets the design requirement of dust and moisture seal.

87-V1E0054 Change the low pressure tap location for the condenser water (TPCW) flow switches on the B.T.R.S. Chillers.

1. The B.T.R.S. Chillers are not important to safety since their failure, even while in operation, will cause immediate boration of the RCS in the worst case.

2. The modification increases the reliability of the B.T.R.S. Chillers by providing flow protection, but does not change the original design function of the system.

3. The B.T.R.S. Chillers have no impact on the margin of safety defined in the bases for any Technical Specification. Technical Specification 3/4.1.2 requires two independent boration parts during reactor operation but the B.T.R.S. is not required or even addressed.

87-V1E0055 Increase set point temperature for circuits #13, 14, 15 and 16 on panel A-1817-UO-001 and relocate RTD on circuit 13 to outside of building.

1. The plant makeup water treatment waste neutralization equipment and components are not assumed to function in an accident.

2. Heat Trace reset/instrument relocation will not adversely affect any equipment/component, or create the possibility of an accident.

3. The plant makeup water treatment system waste neutralization system has no Technical Specification safety bases.

87-V1E0056 Change main steam line monitors (1RE-13119, 1RE-13120, 1RE-13121, 1RE-13122) detector tubes to a new type with a greater sensitivity to meet the FSAR required range.

1. Change is to increase sensitivity only and will not increase the probability of occurrence or consequences of an accident described in the FSAR.

2. Change is to increase the sensitivity of radiation monitor and will not increase the probability of consequences of equipment malfunctions assumed to point to accidents analyzed in the FSAR.

3. Increasing the sensitivity of radiation monitors does not create the possibility of an accident or equipment malfunction not addressed in the FSAR.

87-V1E0057 Relocate speed control valve to allow for valves 1-HV 8149AB & C opening time adjustment. Relocate speed control valve for 1LV459 and 460 to allow for valve closing time adjustment.

1. This modification relocates an existing valve. This relocation does not degrade function of the system, therefore, the probabilities of occurrence or consequences of an accident are not affected.

2. This modification relocates an existing valve. This relocation does not degrade function of the system, therefore, the probabilities of occurrence or consequences of an accident are not affected.

3. This modification relocates an existing valve. This relocation does not degrade function of the system, therefore, the probabilities of occurrence or consequences of an accident are not affected.

87-V1E0060 Reverse stationary gripper coil and movable gripper coil field cable connections at Control Rod Power Cabinet.

1. This change will permit operation of CRDM's per the design test.

2. This change will permit operation of CRDM's per the design test.

3. This change will permit operation of CRDM's per the design test.

87-V1E0061 This DCP modifies the fuel transfer system holddown latch by installing a thrust washer and bushing. This eliminates scarring of the latch due to stainless steel metal to metal contact. The car lock in the reactor side and fuel storage side will be replaced with a 0.38 inch thick car lock.

1. Modified equipment does not operate during an accident nor does it affect accident related equipment.

2. This change is made to assure a more reliable performance of the fuel handling system. The intended function of the transfer system is improved by these modifications.

3. Technical Specification 3/4.9.6 (Refueling Operation Bases) Refueling machines is not affected by this modification.

87-V1E0067 Change closure details and barrier requirements for penetrations.

1. Changes return penetration seals to original design intent. Probability of accident/consequences decreased.

2. Changes return penetration seals to original design intent. Probability of accident/consequences decreased.

3. Changes return penetration seals to original design intent. Probability of accident/consequences decreased.

87-V1E0068 Remove orifice from the lower port of the solenoid assembly for the PORV's.

1. Removal of the valve opening orifice will affect stroke time of the valves only. The stroke time is used for COMS setpoints and PSARV piping analysis. The stroke time was tested after the orifice was removed and the stroke opening times resulting are enveloped by the analysis.

2. Removal of the valve opening orifice will affect stroke time of the valves only. The stroke time is used for COMS setpoints and PSARV piping analysis. The stroke time was tested after the orifice was removed and the stroke opening times resulting are enveloped by the analysis.

3. Removal of the valve opening orifice will affect stroke time of the valves only. The stroke time is used for COMS setpoints and PSARV piping analysis. The stroke time was tested after the orifice was removed and the stroke opening times resulting are enveloped by the analysis.

87-V1E0069 The change corrects drawing error to allow completion of modification for NRC 863 card in QPP2.

1. Test channel for loop 2041 RCP thermal barrier cooling water isolation is not addressed in FSAR requirements.

2. Test channel for loop 2041 RCP thermal barrier cooling water isolation is not addressed in FSAR requirements.

3. Test channel for loop 2041 RCP thermal barrier cooling water isolation is not addressed in Technical Specifications, although operability is discussed in section 3/4.7.12.

87-V1E0074 Decrease annunciation time by removing V.T.R. equipment from CAS console.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect of the margin of safety as defined in the bases for the Technical Specification.

87-V1E0080 Add transceiver unit to perimeter.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0083 Reterminate cable 11R13135AXM-XN and -XP and 12R13135BXM, XN and XP to match VP 1X6AZ02-64 and 1X6AZ02-65.

1. To reterminate cables to furnish the signal monitoring for NFMS and PSMS will not increase probability of FSAR accidents, create new malfunction possibilities and will not affect Technical Specification margins.

2. To reterminate cables to furnish the signal monitoring for NFMS and PSMS will not increase probability of FSAR accidents, create new malfunction possibilities and will not affect Technical Specification margins.

3. To reterminate cables to furnish the signal monitoring for NFMS and PSMS will not increase probability of FSAR accidents, create new malfunction possibilities and will not affect Technical Specification margins.

87-V1E0086 Change closure details and barrier requirements for penetrations.

1. Changes return seals to design intent and thereby reduce probability of accidents.

2. Changes return seals to design intent and thereby reduce probability of accidents.

3. Changes return seals to design intent and thereby reduce probability of accidents.

87-V1E0087 Increase pipe size for the inlet piping to IPSV-8118 and modified the outlet piping and respective supports to prevent cycling once valve 1PSV-8118 has opened.

1. The change reduces the piping losses to PSV8118 - The PD Pump would not be required to operate in an accident.

2. The modification reduces piping losses and improves system operation.

3. The system will operate as required by Technical Specification with the proposed modification - 2 CVCS pump available.

87-V1E0088 Changes the temperature setpoints of ITSL/ITSH - 11641 thru 11644 and ITSL/ITSH-11646 thru 11649. These setpoints control the automatic start and stop of the NSCW Tower fans. The setpoint tolerance is revised also and a tolerance is added to the setpoints of ITSHL-1668 and 1669.

1. The setpoint changes described do not affect the failure analyses of the tower fans as analyzed in FSAR Section 9.2.1. The changes enhance safety by reducing the possibility of potential tower icing.

2. Only the temperature range for fan operation and setpoint tolerances for fans/spray are affected. Since the new range and tolerances fall within previously analyzed boundaries. No new possibility of an accident or malfunction is created. Refer to FSAR sections 6.2 and 9.2.5.

3. These changes do not decrease the Tech. Spec. safety margins as discussed in section 3/4.7.5 basis.

87-V1E0089 Seal weld valve 1-1201-U4-050 in Reactor Coolant System.

1. Changes enhance integrity of component, and do not affect function or operation.

2. Valve function and operation unaffected.

3. Safety margin equal to that of original design. Seal welding is an accepted technique for leak preclusion.

87-V1E0096 Replace valve 1HV-3258 with valve 2HV-3507 on the backflush waste line to fuel building drain to stop excessive seat leakage.

1. Replacement valve will be operated per original design intent.

2. Replacement valve is better suited to retain pressure and prevent leakage.

3. Valve is identical to present valve with exception of higher pressure retaining capability.

87-V1E0097 Reroute the outboard penetration signal cable 12LQRM27W and the inboard penetration signal cable 12LQRM2XZ from port 5 to port 11 containment penetration 1-1813-H3-P71.

1. Reroute of this cable will not affect FSAR accident analysis.

2. Reroute of this cable will not increase malfunction possibilities or consequences.

3. Reroute is essentially one for one exchange of components and will not impact safety.

87-V1E0098 Replaced 0-400 PSIG range McDaniel pressure gauge and M&G remote diaphragm seal assembly with 0-200 "H20 range U.S. gauge pressure gauge and ITT Hilderbrandt 300 BT remote diaphragm seal assembly.

1. Providing a reliable level indication of the back flushable crud tank allows the system to function per design intent.

2. Providing a reliable level indication of the back flushable crud tank allows the system to function per design intent.

3. This change does not decrease Technical Specification safety margin. FSAR section 16 is not affected by the proposed change.

87-V1E0099 Remove signal from 1RE0005 AND 1RE0006 containment phase a isolation logic.

1. There is no increase in the probability of any malfunction assumed to function in accidents analyzed in the FSAR.

2. This change does not increase the possibility of an accident or malfunction not described in the FSAR.

3. The margin of safety of any Technical Specification is not affected by this change.

87-V1E0100 Install orifice plate per DCP #V1E0019-0-1, and disable auto function of dampers 1PV-2550B and 1PV-2551B. The lowered flows should enable dampers to open to a repeatable fixed position on fan start. Also, seal Aux. Building doors V12108L1208 and V12108L1209 to reduce leakage into R209 and R210.

1. The offsite and control room doses will increase but will not exceed the limits of 10CFR100, 10CFR50 APP.A or GDC-19 and the increase can be considered insignificant.

2. The change does not adversely affect equipment assumed to function in the FSAR.

3. The change does not adversely affect the performance/ operability of the Auxiliary Building Emergency Exhaust.

87-V1E0101 The scales on the NSCW flow indicators for the ESF chillers are being changed as the incorrect range was supplied with the indicators.

1. Scale change only, no impact on operability of device.

2. Scale change only, no impact on margin of safety.

3. No safety impact, dual indicators are STD accepted readouts. This change does not include an unreviewed safety question.

87-V1E0103 Add a 12" connection to the fire protection yard loop piping with isolation valve. Connection was needed for Unit 2 flushing hook-up.

1. This change does not adversely impact the fire water supply and has no other interfaces, it has no impact on accident related equipment.

2. The change has no impact on fire water supply logistics, and thus has no potential for creating accidents or malfunctions.

3. Tech. Specs. are not involved. Safety limits bases discussed in Tech. Spec. 2.1 do not deal with fire protection - only NSSS.

87-V1E0104 Roll cables 11CQNIR1XJ and XL in N35 drawer.

1. Engineering reviewed FSAR 7.1, 7.2, 16.3.5, 16.4.1 and found proposed wiring change does not have any impact.

2. Change corrects a wiring deficiency.

3. Engineering reviewed Technical Specification 3/4.3.1 and found no impact.

87-V1E0105 Relocated temperature element for fuel pool area recirc units for better temperature control.

1. Change does not increase accident probability or consequences.

2. No accident conditions modified or created.

3. Does not affect Technical Specification bases.

87-V1E0106 Install drain valves and lines above the isolation valves for EQ Tag 1-1574-N7-001 to prevent flooding of the Unit from condensate build-up on isolation valves. Reroute the piping to eliminate the flooding problem.

1. Change does not affect accidents as described in the FSAR.

2. The affected equipment is not required to operate after an accident the new drain lines do not affect the automatic operation of the isolation valves.

3. Change does not affect safety related equipment and does not impact T/S bases.

87-V1E0108 Swap cables 11CQNIR1XF and YE at 11PY19 and at 1ARNIRDWJB1.

1. Engineering reviewed FSAR 7.1, 7.2, 16.3.5, and 16.4.1 and found no impact on accident analysis.

2. Change corrects a wiring deficiency.

3. Change is in wiring and doesn't impact Technical Specification.

87-V1E0114 Secure Interim barrier doors.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0116 Add deadbolt lock to hatch cover to prevent unauthorized access to high radiation area under reactor vessel but allow unrestricted egress. This change is needed for radiation access control. Remove existing self locking pin which is not sufficient for radiation access control.

1. Change is needed for radiation access control and has no effect on equipment or components assumed to be functional in an accident.

2. Change is for radiation access control and does not create the possibility of an accident nor has any effect on any equipment/component.

3. Change is for radiation access control and increases personnel safety as implied in Section 6.11 of Tech. Spec. No other safety issue is involved.

87-V1E0117 Remove N-stamp from WPSL spent resin sluice pump 1-1901-P6-006. Vibro-etch new design pressure/temp of 240 PSI/200°F on pump nameplate. Replace 1PI-10260 with new pressure gauge of scale range 0-160 PSIG. Replace 1PI-1086 with new pressure gauge of scale range 0-300 PSIG.

1. These changes have no effect on the equipment or components assumed to function in the accident analysis of FSAR section 15.

2. An increase in spent resin sluice pump discharge pressure and changeout of pressure gauges are the only physical changes involved. Since all piping and components are designed to accommodate the new pressure and system operation is otherwise affected. No new possibilities are created.

3. The changes as described in (a.) do not affect the bases as defined in section (b.) 3/4.11.1 of the Technical Specification.

87-V1E0118 Move assessment camera to eliminate blind spot.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Techncial Specification.

87-V1E0122 Humidity transmitters ME/MT 13205 and 13206 will be replaced with instruments designed to withstand the temperature and moisture conditions in filter unit 1-1574-N7-002 a power supply and alarm circuit will be added to support this change. Figure 9.4.4-1 in the FSAR will be revised to incorporate this change.

1. Section 9.4.4.3 of the FSAR states that no safety evaluation is provided for Turbine Building HVAC Systems. Turbine Bldg. HVAC Systems have no impact on the probability of an accident.

2. The humidity transmitters are not safety related and they do not perform a safety function. They will not create an accident or malfunction.

3. The Turbine Building HVAC Filter System is not safety related and does not affect the margin of safety as defined in the Technical Specifications.

87-V1E0127 Gap between steamline and wall exceeds maximum allowance. Install new barrier around steamline.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0134 Add door open lights to card readers on airlock doors.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0135 Add return air duct to CAS Room HVAC and modify room to eliminate excess noise.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect of the margin of safety as defined in the bases for the Technical Specification.

87-V1E0138 This DCP replaces current nameplates for 1HS-40062, -40063, -40120 and -40122 with revised nameplates which accurately describe the containment isolation signal being reset.

1. Nameplate inscription change only. No operational impact on the handswitches described in the FSAR.

2. Nameplate inscription change only to describe to the source of containment isolation signal which is being reset.

3. Nameplate inscription change has no impact on margin of safety defined in the Tech. Spec.

87-V1E0139 Move cameras to eliminate blind spot and add delay fence.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0141 Add turnstiles and keypads to PESB.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0142 Add cooling fans to Security Consoles.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0145 Add card-reader to Control Building Door.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0146 Excessive alarms are generated by door. Change door to a different type to eliminate this problem.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0148 Relocate camera to eliminate blind spot.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0149 Gap in gate exceeds maximum limits, add new barrier to eliminate this gap.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0154 Replaced a 5000 ohm resistor in TDAFW pump speed indicating loop 1SI-15109 with a 2500 ohm resistor to lower loop resistance the 5000 ohm resistor exceeded the manufacturer recommended loop resistance for Woodward EGM 1SY-15109B. The 2500 ohm resistor allows 1SY-15109B to drive its loop and provide calibrated input to Validyne isolator 1SY-15109E and 1SY-15109F.

1. This change provides reliable/calibrated speed indication for the TDAFW pump. The change affects non-safety related speed indication only and no control functions are affected. There is no impact on accident or equipment malfunctions previously evaluated in the FSAR.

2. This change affects indication only and does not affect TDAFW pump control circuitry. The change does not create a new condition in regards to system or facility design.

3. Improved reliability of TDAFW pump speed indication actually increases the margin of safety for Tech. Spec. by providing operators with more reliable indication of pump performance.

87-V1E0158 In order to reduce spurious fire alarms in areas where combustion products or high moisture exists, the fire detectors in these area were changed from ionization to infrared or thermal types.

1. These ionization detectors were replaced with types more suitable to environment. FSAR chapter 15 accident analysis is not affected.

2. No unevaluated accident or malfunction can result from this change.

3. The fire detection system does not involve Tech. Spec.

87-V1E0159 Move camera to eliminate blind spot and add fence.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0162 This provides battery backup power for the River Intake Structure Fire detection panel. Since this panel did not have an uninterruptable power supply, the battery backup was required by NFPA 72 D.

1. This change conforms to the original design intent. FSAR chapter 15 accident analysis is not affected.

2. No unevaluated accident or malfunction can result from this change.

3. The fire detection system is not involved in Tech. Spec.

87-V1E0165 Core drill requests 1995, 2026, 2045, 2162, 2179, 2198 and 2226 to allow Unit 2 commodities into the Unit 1 protected area. The DCP allowed core drills and provided new penetration seal designs.

1. The new penetration seal design specified in DCP meets or exceeds originally approved penetration seal design.

2. Penetration seal design meets or exceeds requirements as set forth in FSAR Section 9.5.

3. This DCP does not constitute a change in Tech. Specs.

87-V1E0167 Move camera to eliminate blind spot.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0168 Add magnetic locks to door.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0169 Replace video amplifier with later model units.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0170 Two lines will be rerouted or modified. to allow the Boron Recycle Evaporator to discharge to the Waste Evaporator Condensate Tank while processing water from the ARB to the Waste Monitor Tank.

1. This change is on non-safety related equipment not required to operate during an accident and does not affect equipment required to operate during an accident.

2. This change does not impact equipment analyzed in the FSAR for accidents.

3. This change does not affect the Technical Specification bases section 3/4.11.1.

87-VCE0176 Rewire the normal chilled water low temperature switches on the normal chillers to put them in parallel with each other. (They are currently in series with each other). This will allow chillers to provide 44°F water without tripping.

1. The normal chillers have no safety design basis per FSAR 9.2.9.2.1.1.

2. This modification enhances the ability of the system to perform its original design function.

3. The Normal Chillers/Normal Chilled Water System have no impact on the Technical Specification or any equipment/ system described in it.

87-V1E0183 Add a 500 MCM cable to each set of cables from the DC switchgear 1ND3A01 to battery 1ND3AB. This change will increase the number of feeder cables from 2 to 3.

1. The FSAR FMEA Section (table) 8.3.1-3 covers failures associated with the class 1E power distribution system. The proposed design change will not alter or affect any safety related power distribution systems or equipment.

2. This design change increases the non 1E battery reliability by increasing the ampacity of the feeder cables, thereby reducing cable temp. rise. There is no new component malfunction created by this change. FMEA of section 8.3 is not affected by this change.

3. The margin of safety and surveillance requirements as defined in the Tech. Spec. apply to the class 1E DC system only. The proposed design change does not alter the function of the non 1E system or affect the class 1E power distribution.

87-V1E0185 Relocate presently blocked sprinkler heads in the Auxiliary Feedwater pumphouse. Train B & C in sprinkler systems 54 & 53. No additional supports are required.

1. Although Auxiliary Feedwater is assumed to function in some accident scenarios, this change does not increase the probability of AFW malfunction. No seismic hazard created by change.

2. Even hypothetical situations are covered by FSAR analyzed loss of feedwater conditions.

3. Safety limits and settings discussed in sections 2.0, 3.0 & 4.0 do not deal with fire protection. Therefore, no decrease in Tech. Spec. margin of safety.

87-V1E0186 This DCP is to permanently install this capacitor circuit in the vital bus power system at panels 1AY2A and 1BY2B.

1. This change improves system performance and does not affect the original designed system operation. Therefore, this change does not increase the probability of any accidents described in the FSAR section 15.0.

2. This change improves system performance and does not affect the original designed system operation. Therefore, this change does not create the possibility of an accident or equipment malfunction not described and analyzed in the FSAR. This includes a review of Ch. 15 and Sect. 8.3.

3. The change only involves system improvement and therefore does not decrease the safety margin as described in section 3/4.8.3 of the Technical Specifications.

87-V1E0188 Change the setpoint for MISH-2614, 2615, and 2564 from 50% to 85% RH. These instruments sense containment atmosphere relative humidity and on high levels alarms in the Control Room. These instruments are non safety related class 62T.

1. The changed setpoints will have no affect on plant operation since they are for alarm purposes only. This change does not increase the probability of an accident.

2. These setpoint changes are for alarm purposes only a. which have no affect on plant operation. FSAR Section 9.4.6.3 states the normal cooling system for the containment designed to maintain 120°F temperature and 18 to 50 percent relative humidity. This relative humidity range corresponds to a 120°F dry bulb temperature. The relative humidity will rise as the dry bulb temperature falls with a constant humidity ratio. Therefore, this setpoint change does not change the relative humidity specified in the FSAR (i.e.,85% at 90°F will be 50% RH at 120°F). This change will not increase the possibility of a malfunction.

3. Technical Specifications 2.0, 3.0, and 4.0 are not affected as this change.

87-V1E0193 For each NSCW Train; a) Delete 2 existing snubbers, b) add 1 new snubber; c) add 1 new frame type support; d) replace 1 rigid strut with a frame type rigid support, and e) modify 1 spring support utilizing existing spring-can.

1. This change does not affect the probability of any accident described in FSAR chapter 15, due to malfunction of any equipment or component.

2. No new postulated accident is created as a result of this change. This considers FSAR Sections 3.6, 3.9 , 7.3.9 and Chapter 15.

3. The margin of safety described in Technical Specification bases 3/4.7.4 and 3/4.7.8 are not affected by this change.

87-V1E0198 Wire internals of 1RX-2565 per letters GAEW-87-1667 (6-2-87) and GAEW-87-1673 (6-18-87) to provide the actuation block using the bypass position in the DPM.

1. Per section 9.4.6.3, this system has no safety design bases. The class 1E isolation for CVI initiation is not being modified.

2. The modifications to 1RX-2565 has no safety impact as this device serves no safety function. The modification to RX-2565 does not create a new possibility of malfunction not analyzed in the FSAR.

3. The Technical Specification bases do not take credit for the operation of 1RX-2565. The basis for Technical Specification 3/4.3 are not affected by this modification.

87-V1E0203 Change the top-of-scale setpoint on the incore instrumentation room area monitor 1RE-0011.

1. The design change is a setpoint change on area radiation monitor 1RE-0011 which is a project class 62J instrument. This change will not increase the probability of occurrence or consequences of the malfunction of any equipment or component assumed to function in accidents analyzed in FSAR sections 12.3 or 15.0.

2. The design change is a setpoint change on the project class 62J area radiation monitor 1RE-0011. This change does not create the possibility of an accident or equipment/component malfunction not described and analyzed in FSAR sections 12.3 or 15.0.

3. The design change is a setpoint change on the project class 62J area radiation monitor 1RE-0011. This change does not decrease the margin of safety defined by Technical Specification section 3/4.3.3 (monitoring instrumentation).

87-V1E0207 Add timers to MFIV control circuit to prevent recurrence of a "relay race". The problem occurred due to a failed relay in the test scheme.

1. Change decrease's the possibility for undesired closure of MFIV during 10% stroke test.

2. Change does not create possibility of any new accident or malfunction.

3. Valve test scheme is not part of the basis for any Technical Specification.

87-V1E0212 Add 120 VAC receptacles, telephone, cover plate on equipment hatch and rotate containment access platform/stair to facilitate H.P. monitors and improve radiological conditions at personnel lock. Revise combustible loadings in Aux. Bldg. R120.

1. This included a review of FSAR Chapter 15.

2. Addition of receptacles and relocation of stairs does not create any new accident scenarios.

3. There is no change to the Technical Specifications bases. This includes a review of Section 2.0.

87-VCR0229 Add oil sample connections on the compressor bearing lubrication system on the normal chillers.

1. The normal chillers have no safety design basis per FSAR 9.2.9.2.1.1.

2. The modification will not affect the operability of this or any other system in any way, nor will it alter any original design previously analyzed in the FSAR.

3. The Normal Chillers/Normal Chilled Water System have no impact on the margin of safety as defined in the bases for any Technical Specification.

87-V1E0237 Strengthen fence in Perimeter Zone.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0238 Upgrade the protected area barrier in the PESB.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0243 Add support to 1HV10957 (3" air actuated gear valve) located on the safety in section system sludge mixing dump valve 1-1204-239-3" in the BWST area 8.

1. The addition of the support increases system dependability and therefore decreases the probability and consequences of equipment/component malfunction in a postulated accident analyzed in FSAR Section 15.6.

2. The additional support increases system dependability which does not create the possibility of an accident conditions which is not analyzed in the FSAR.

3. The additional support increases system dependability which would not decrease Technical Specifications safety margins as discussed in section 3/4.5.

87-V1E0244 Add restraint plates to support lines 1-1201-178-1 and 1-2402-004-1". Supports are located inside the sleeves of containment penetrations #62 and #42.

1. This change does not affect the probability of any accident described in the FSAR Chapter 15.

2. No new postulated accident is created as a result of this change. This considers FSAR sections 3.6, 3.7, 3.9, 6.2 and Chapter 15.

3. The margin of safety described in Technical Specification bases 3/4.4 and 3/4.6 are not affected by this change.

87-V1E0245 Addition of backdraft dampers to Control Room ESF Cooling System on each Train (A & B) cooling/filtration unit discharge and on each train outside air intake duct.

1. The additional backdraft dampers will not increase the probability of an accident previously evaluated in the FSAR.

2. The possible accident associated with the added backdraft dampers is addressed in Section 6.4 of the FSAR.

3. The margin of safety is not reduced as a result of the added backdraft dampers.

87-V1E0248 1) Replace the existing 50 amp breakers INBE71, INBF65, 1ABE52, INBR43 and INBS53 with 40 amp breakers.
2) Disconnect power supply to EHC cabinet from the distribution panel INYE1 and spare breaker INYE136.
3) Add a 480/120V transformer with 15A circuit breaker at 480V MCC INBE64 to provide power supply to EHC cabinet.

1. Reducing the trip setpoint of electrical penetration overcurrent backup protection breaker provide more adequate protection to the condensate penetration and meet Reg. Guide 1.63 requirements.

2. This change involves reducing breaker trip setpoint which do not create any new types of accident other than those described in FSAR 8.3.

3. The margin of safety is not applicable to those systems.

87-V1E0260 This DCP changed the scales 1LI764 1LR764 and 1LI765 from 0-100% to 0-120% H_2O.

1. The design change involves a scale change on the containment emergency water level (wide range) instrumentation. This will not increase the probability or consequences of the malfunction of any equipment or component assumed to function in accidents analyzed in FSAR Sections 15.6.3 or 9.3.3.

2. The design change involves a scale change on the containment emergency water level (wide range) instrumented. This is a scale change only and will not create the possibility of an accident or equipment/component malfunction not described and analyzed in FSAR sections 15.6.3 or 9.3.3.

3. The design change involves a scale change on the containment emergency water level (wide range) instrumentation. This is a scale change only and does not decrease the margin of safety defined by the bases for the Technical Specification.

87-V1E0268 1) Changing of warning nameplates in the Auxiliary Relay Panels and HVAC sub panel. 2) Replacing existing 125V DC 3A fuses FV-3 to FV-13 in Aux. Relay Panel 1 BCPAR7 (1-1816-U3-015), with 3A bussman fuses type LPN-RK.

1. Replacing fuses and changing nameplates in ARPs and HVAC panels does not affect chapter 15 accident analysis.

2. There is no possibility of a previously unanalyzed FSAR postulated malfunction being created by this DCP.

3. There is not change to the basis of any Technical Specification. This includes review of the basis to the Technical Specification 3/4.8.

87-VCE0272 Adjust setpoint on 7300 series card (NAL2).

1. This system is not safety-related and has no effect on any equipment or components that are safety related and analyzed in FSAR section 15.

2. Changing the setpoint for dilution flowrate will not create the possibility of an accident or malfunction not described or analyzed in FSAR section 15.

3. This change does not affect the margin of safety per Technical Specification bases/sections 2.1, 2.2 and 3/4.11.1, 3/4.3 or 3/4.12.

87-V1E0274 Change two (2) security doors to lightweight doors.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0306 The Turbine Building water chemistry lab fume hood exhaust system was modified to include a fume hood for the lab atomic absorption unit. This will change figure 9.4.1-1 sht. 1 (P&IP) in the FSAR. No separate LDCR is required.

1. This DCP does not impact any basis for accident analysis described in the FSAR. Reference FSAR section 9.4 and 9.5.

2. This DCP does not create the possibility of an accident or malfunction of any equipment.

3. This DCP does not affect the margin of safety described in the FSAR.

87-V1E0319 Lowered setpoint of Equipment Building fans to 90°F which is consistent with FSAR.

1. Equipment brought in compliance with FSAR.

2. No possibility of accident type is created.

3. No Tech. Spec. bases are affected.

87-V1E0329 Provide a lube oil sampling point which will facilitate the monthly sampling process.

1. The installation of the lube oil sample points will be done per the project class 212 requirements. This change will not increase the probability of occurrence or consequences of an accident described in FSAR sections 9.5.7 and 15.0.

2. The installation of the lube oil sample points will be done per the project class 212 requirements; therefore, it does not create. The possibility of an accident or equipment/component malfunction not described and analyzed in FSAR section's 15.0, 9.5.0 and 9.5.7.

3. The proposed change does not decrease the margin of safety defined by the bases of the Tech. Spec. 3/4.8.1.

87-V1E0330 The design circuitry is changed for 13.8 kv and 4.16 kv non 1E buses which are automatically transferred from the unit auxiliary transformer (UAT) to resume auxiliary transformer (RAT) by fast transfer or residual voltage transfer scheme.

1. The proposed design changes, internal wiring changes in SWGR 1NAA09 does not affect any chapter 15 accident analysis including the fuel handling accidents.

2. There is no possibility of a previously unanalyzed FSAR postulated malfunction being created by the DCP. This DCP modifies the circuitry in the fast transfer scheme based on the change in system operation. There is no change to the FSAR chapter 15 analysis.

3. There is no change to the basis of any Tech. Spec. This includes review of the basis to the Tech. Spec. 3/4.8.

87-V1E0335 1) Replace the existing 50 amp breaker 1NYR09 and 1NYS09 with 20A breakers.
2) Add one 3A fuse in series with the existing 1A fuse in seal table level alarm circuit.
3) Add 5A fuses in series with the existing 5A fuses in fuel transfer system control consoles on the fuel pit side and the reactor side.

1. This change modifies 5 circuits so as to meet RG.1.63 Criteria. As such this DCP does not affect the consequences of any equipment malfunction and does not affect accident analysis of Chapter 15.

2. There is not possibility of a previously unanalyzed FSAR postulated malfunction being created by this DCP.

3. There is no change to the basis of any Tech. Spec. This includes review of the basis to Tech. Spec. 3/4.2.4 and 3/4.9.

87-V1E0336 This change involves disabling 26 (two) "AR" type relays (494TA4 & 494TB4) in the Unit 1 generator tripping circuits. The wiring will be de-termed at the relays and at the terminal strips in the nameplate shall read "spare" for each relay.

1. This change shall actually reduce spurious trips of Unit 1 while Unit 2 RATS are being energized since these particular relays have had a history of causing misoperation before.

2. The purpose of this change will actually decrease spurious trips of Unit 1 during the check out and energization of the Unit 2 RATS, thereby reducing the possibility of an accident or equipment/component malfunction.

3. The Technical Specification bases does not address the high-speed "AR"type RAB breaker failure relays.

87-V1E0347 Move cameras 26 and 29 to better cover zones 21 and 24.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0348 The DCP installed verified and validated (V&V) firmware in the PSMS, NFMS and ASIS Cabinets.

1. The DCP installed V&V EPROMS which provides an additional level of confidence that the microprocessor will meet its design function therefore the probability of a malfunction is decreased.

2. The additional level of confidence provided by the V&V EPROMS does not create the possibility of an accident or malfunction.

3. The DCP does not decrease the margin of safety as defined by the bases given in Section 2 or the bases for Section 3.3 instrumentation.

87-V1E0356 Increase the setpoint for steam generator blowdown isolation on room temperature to prevent nuisance isolations when pipe break conditions are not present.

1. Safety related equipment in the effected rooms was reviewed to verify compatability with higher normal temperature to demonstrate that safety related equipment will not fail.

2. The setpoint increase does not introduce the possibility of any new accident or malfunction.

3. The detectors will still respond to an actual line break which is the basis for Technical Specification 3.3.3.11.

87-V1E0364 Add core drills and penetrations seals to Unit 1 Control Building walls between rooms R125/R128 and R125/R131 as required for the installation of Unit 2 electrical conduit inside the Unit 1 protected area.

1. New pen seals will meet or exceed original design and specifications. Thus new seals will not de-grade fire area boundary ratings and hazards analysis performed in FSAR Appendix 9A.

2. New pen seals will meet or exceed original design and specifications. Thus new seals will not de-grade fire area boundary ratings and hazards analysis performed in FSAR Appendix 9A.

3. The DCP content does not constitute a change in Technical Specifications.

87-V1E0392 A protected-to-vital area breach exists in the Aux. Bldg. Install barrier to eliminate.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0393 Upgrade the inadequate barriers in the Control Bldg.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1E0394 Replace existing ITT Barton pressure transmitter 1PT-405 with a Tobar. Reroute existing instrument tap on the RHR system recirc line to a new tap on the RVLIS hot leg tap for 1LX-1320.

1. The relocation of the instrument sensing line from the RHR system recirc. line to the RCS hot leg loop 4 will improve the instrument accuracy and reliability.

2. The relocation of the instrument sensing line from the RHR system recirc. line to the RCS hot leg loop 4 will improve the instrument accuracy and reliability.

3. The design change does not decrease the margin of safety defined by the bases of Technical Specification sections.

87-VCN0405 Change the Normal Chiller compressor lube oil temperature control point from 90°F to 135°F and also change the required position of coil bypass valves from "closed" to "throttled".

1. The Normal Chilled Water System has no safety design basis per FSAR 9.2.9.2.1.1.

2. This modification brings the system in compliance with vendor recommendations for lube oil temperature and enhances the ability of the system to meet the original design function requirements.

3. The Normal Chillers/Normal Chilled Water System have no impact on the margin of safety as defined in the basis for any Technical Specification.

87-V1E0437 This DCP permanently seals the doorway between Rooms 106 and 105 in the Aux. Feedwater Pumphouse. Access to Room 105 will be from Room 104.

1. This DCP changes the AFW Pumphouse structure and in no way affects the operation the the Auxiliary Feedwater System.

2. This DCP changes the AFW Pumphouse structure and in no way affects the operation the the Auxiliary Feedwater System.

3. This DCP change does not constitute a change in Technical Specifications.

87-V1N0439 Seal breaches identified on NSCW Cooling towers A and B.

1. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

2. The Security System is not relied upon to mitigate any accident or malfunction of equipment as postulated by the FSAR.

3. The Security System has no effect on the margin of safety as defined in the bases for the Technical Specification.

87-V1N0442 The time delay setting of timers 262 and 262-1 is increased in order to delay reclosure of electric steam boiler (FSB) breakers 1NAA09 and 1NAB08 so that premature reclosure does not impede the reacceleration of the motors on the 13.8 KV buses following transfer.

1. The proposed design changes involves changing of timer settings in 13.8KV swgr 1NAA09 and 1NAB08 does not affect any Chapter 15 accident analysis including the fuel handling accidents.

2. There is no possibility of a previously unanalyzed FSAR postulated malfunction being created by this DCP. This DCP modifies the timer settings in the electric steam boiler breakers 1NAA09 and 1NAB08 based the existing transfer scheme evaluation. There is no change to the FSAR Chapter 15 analysis.

3. There is no change to the basis of any Tech. Spec. This includes review of the basis to the Tech. Spec. 3/4.8 and 3.3.3.11.

87-V1N0445 Lowered voltage setpoints of residual transfer relays for 4.16 KV buses 1NA01 and 1NA04 as a result of the analysis of data obtained during bus transfer tests.

1. The change does not affect the operation of the residual transfer scheme as described in the FSAR, and therefore does not affect an accident or malfunction of safety prev. eval. in the FSAR.

2. The change does not affect the original design of the system operation. Changing the setpoint only increases the probability of a successful transfer.

3. This setpoint change is not related to, or affects any Technical Specification or basis of any Technical Specification.

TESTS AND EXPERIMENTS

TER 87-001 The test operated the PORV Solenoid assembly with various orifices of different sizes in the lower port to determine which size is appropriate for proper operation of the valve.

1. TS 3.4.9.3 ensures an adequate margin of safety for cold overpressurization protection provided both RHR suction relief valves remain lined up to the RCS. During this test RHR is in service and provides cold overpressure protection.

2. TS 3.4.9.3 ensures an adequate margin of safety for cold overpressurization protection provided both RHR suction relief valves remain lined up to the RCS. During this test RHR is in service and provides cold overpressure protection.

3. TS 3.4.9.3 ensures an adequate margin of safety for cold overpressurization protection provided both RHR suction relief valves remain lined up to the RCS. During this test RHR is in service and provides cold overpressure protection.

TER 87-002 The test determined the operability of Rad monitors 1RX0005 and 1RX0006 by cycling the reset switch on the Rad Monitor DPM. This identifies any existing problems which could possibly cause spurious CIA's.

1. This test does not increase the probability of occurrence or the consequences of an accident or equipment malfunction important to safety as previously evaluated in the FSAR. The test produced a CI-A. This has been previously evaluated.

2. This test does not create the possibility for an accident or malfunction of a different type than previously evaluated in the FSAR. The test produced a CI-A that is already evaluated in the FSAR.

3. There is no change to the margin of safety defined by the bases of the Technical Specifications since the actuation/system operation is normal.

TER 87-003 The test obtained the as-built stiffness of pipe support V11202-516-H002 by loading through a dynameter and measuring deflection. The test performed the following transients on NSCW B Train (1) startup per SOP using pumps 2 and 4 after being stopped less 5 minutes and (2) start of pump 4 after tripping pump 2.

1. The system equipment operation is as described in the FSAR. The operation is the same as that which may occur during normal plant operation.

2. Equipment is not being operated abnormally.

3. The bases for the Technical Specification is not changed. The margin of safety is not reduced since equipment is not operating abnormally.

TER 87-004 The test obtains technical data for Train A Fuel Handling Post Accident HVAC. Data was collected during a controlled dead-head run to aid in evaluation of DC 1-87-153 (Actual Field Dead-head).

1. The probability of a fuel handling accident was zero at time of test as no fuel was in pool. Vendor provided limits of controlled deadhead to assure equipment would not be adversely affected.

2. No new accident or malfunction possibility was created. Equipment effects were analyzed and limits established prior to test.

3. Tech Spec. was not applicable at time of test and effects on equipment were analyzed prior to test.

TER 87-005 The test installed lanyards at designated locations to monitor discharge piping of the CVCS PD Pump at various speeds.

1. The PD Pump is not required for safe shutdown during an accident condition. The CVCS is isolated except for the CCPs and piping in the SI and seal injection flow paths.

2. The PD Pump is not included in the analysis of the ECCS during an accident.

3. The PD Pump is not included in the analysis of the ECCS during an accident.

TER 87-006 The test obtained operating data on the spent fuel pool cooling pumps and heat exchangers. The test operated SFPC pumps (11213P6002&005) and provided operating data while throttling discharge valves and also monitored the SFP HX.

1. The test did not increase the probability of occurrence of the consequences of an accident or malfunction of equipment important to safety previously evaluated in the FSAR. The test operated equipment in accordance with standard operating procedures and normal system alignments at the time of the test and no spent fuel was in the SFP.

2. The test did not increase the probability of occurrence of the consequences of an accident or malfunction of equipment important to safety previously evaluated in the FSAR. The test operated equipment in accordance with standard operating procedures and normal system alignments at the time of the test and no spent fuel was in the SFP.

3. The margin of safety as defined in the Technical Specification bases was not reduced. The equipment was operated in accordance with standard operating procedures and normal system alignments. No spent fuel was in the SFP.

TER 87-008 The test is a functional test for Design Change Package (DCP) 87-V1E0245. The design change added backdraft dampers downstream of CR emergency filtration units to prevent backflow through filters in a single train failure condition.

1. The test proves operability of the design modification which was installed to decrease the probability of occurrence or consequences of a malfunction of safety related equipment and will not increase the probability of occurrence of consequences of an accident described in the FSAR.

2. The test simulated a single failure criteria which is described in FSAR.

3. The test does not decrease the existing margin of safety. One train will be operable, while the other train will be declared inoperable. The inlet and outlet dampers of the inoperable train will be failed open. This will set-up a backflow through the inoperable filter and allow the added backdraft damper to function as designed.

TER 87-009 The test demonstrated the operability of Post-LOCA Purge isolation valves (HV2624A and HV2624B). Test demonstrated that valves could be operated after reset with radiation isolation signal still present (CVI).

1. The test verified Post-LOCA Purge isolation valves will reset as designed.

2. The test operated the Post-LOCA Purge as described in FSAR to satisfy the Corrective Action Plan for NRC item 50-424/87-12-07.

3. The test did not operate systems outside of designed parameters.

TER 87-010 The test tested a proposed sequence for shutting down the Post Accident and restarting the normal HVAC without getting a low pressure actuation also tested affects of doors on Fuel Building negative pressure.

1. Test performed prior to irradiated fuel being in fuel handling building.

2. There was no possibility for refueling accident during test.

3. The Technical Specification requirements were not in effect when test was performed.

TER 87-011 The test verified the operation of the PSMS after installation of the V&V firmware.

1. The test verified proper operation of the PSMS and did not increase the probability of occurrence or consequences of an accident of equipment malfunction of safety related equipment previously evaluated in the FSAR.

2. The test verified proper operation of the PSMS and did not create a possibility for an accident or malfunction of a different type plan evaluated previously in the FSAR.

3. The test verified proper operation of the PSMS and did not reduce the margin of safety defined by the bases for the Technical Specification.

Georgia Power Company
333 Piedmont Avenue
Atlanta, Georgia 30308
Telephone 404 526-6526

Mailing Address:
Post Office Box 4545
Atlanta, Georgia 30302

Georgia Power
the southern electric system

L. T. Gucwa
Manager Nuclear Safety
and Licensing

SL-4421
0857m
X7GJ17-V410

April 18, 1988

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

PLANT VOGTLE - UNIT 1
NRC DOCKET 50-424
OPERATING LICENSE NPF-68
10 CFR 50.59(b) ANNUAL SUMMARY REPORT

Gentlemen:

In accordance with 10 CFR 50.59(b), Georgia Power Company submits the enclosed annual summary report which concerns changes, tests, and experiments performed during 1987 at Plant Vogtle Unit 1. A brief description of changes to the facility, tests, and experiments, including a summary of the safety evaluation of each, are provided in the enclosed report.

In addition to the signed original, thirty nine (39) copies of this submittal are provided for your use. A copy of this submittal is being provided to NRC Region II.

Should there be any questions in this regard, please contact this office at any time.

Sincerely,

L. T. Gucwa

JAE/lm

Enclosure: Summary Report of 10 CFR 50.59 Changes

c: (see next page)

IE47
1/40

Georgia Power

c: Georgia Power Company
Mr. P. D. Rice
Mr. G. Bockhold, Jr.
GO-NORMS

U. S. Nuclear Regulatory Commission
Dr. J. N. Grace, Regional Administrator
Mr. J. B. Hopkins, Licensing Project Manager, NRR (2 copies)
Mr. J. F. Rogge, Senior Resident Inspector-Operations, Vogtle

0857m