Beaver Valley Power Station Unit 2
Facility Changes, Tests, and Experiments
November 1, 1995 - October 31, 1996
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CHANGE TITLE

DCP 1378, Containment Vacuum Pump Liquid Drain Trap Replacement

CHANGE DESCRIPTION

This design change replaced the containment vacuum pump liquid drain traps and silencers with larger capacity liquid traps and silencers. Minor piping modifications were required to facilitate the installation of the larger traps and silencers.

The new traps and silencers are of the same basic passive design as the existing traps, but are sized to allow drainage of a larger volume of water from the containment vacuum pumps' discharge. No equipment important to safety is affected by this design change. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

DCP 1604, Safeguards Area Air Conditioning Unit Coil Replacement

CHANGE DESCRIPTION

This modification replaced U-tube coils in air conditioning units 2HVR*ACU207A and B with new, larger diameter, corrosion resistant, straight-through tube configuration.

Because the change does not have an adverse effect on the safety function or operation of the air conditioning units and no new failure modes are created, no unreviewed safety question is involved.

CHANGE TITLE

DCP 1728, Steam Generator Blowdown Demineralizer Filter

CHANGE DESCRIPTION

This design change added a duplex filter upstream of the steam generator blowdown demineralizers, and relocated the demineralizers so that they are accessible from the Turbine Building Crane Bay.

No design basis accidents were affected because the modification did not adversely affect any safety system, did not exacerbate any existing accident, and did not introduce any new hazard beyond that already considered in the UFSAR. The assumptions and radiological consequences of any accident previously evaluated in the UFSAR was not increased because the reliability and integrity of the blowdown demineralizer portion of this system was maintained/enhanced, and the modification has no effect on any other system. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

DCP 1825, Motor Replica Relay Replacement

CHANGE DESCRIPTION

Large nonsafety-related motors are provided with overload protection by replica relays which use both load current and temperature to predict the need to trip the motor. These relays are believed to have caused unnecessary trips and have become obsolete. As a result, the relays were replaced for motors associated with cooling tower pumps, condensate pumps, main feedwater pumps and reactor coolant pumps. The replacements are time-overcurrent devices.

Because the relays perform no safety function and the change reduces the probability of false trips, it was found that no unreviewed safety question is involved.

CHANGE TITLE

DCP 1979, Diesel Generator Fuel Oil Storage Tank Sample Point Modifications

CHANGE DESCRIPTION

This design change re-routed approximately eight feet of vent piping at each diesel generator fuel oil storage tank and installed a new lockable sample point cap. The existing sample point had caused many out of specification sample results which were attributed to particulate contamination from corrosion products within the sample point piping.

The failure modes associated with this change are no greater than those of the original configuration because welding and mechanical fastening were the standard construction methods used previously. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2036, Post Accident Sampling System Nitrogen Backup System Modification

CHANGE DESCRIPTION

Air supply tubing to Post Accident Sampling System solenoid operated valves 2PAS-SOV145, 146, 148, AE124 and AE126 was modified. The change permits the existing nitrogen supply to be used as a backup in the event of Instrument Air System failure.

The probability of failure of the Post Accident Sampling System was reduced, and no safety related systems are affected by the change; therefore, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2099, Update Computer Systems to Reflect Changes in Valve Status

CHANGE DESCRIPTION

Several containment isolation valves in lines providing backup cooling water to the containment air recirculation cooling system have been deenergized in a closed position. This safety evaluation was prepared to support related software changes for computer systems which provide alarm or status information pertaining to these valves.

Because the affected computer systems perform no safety functions and the software changes were necessary to reflect the new plant operating configuration, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2126, Emergency Diesel Generator Jacket Water Cooling Control

CHANGE DESCRIPTION

This modification replaced the air actuated temperature control valves (and support equipment) in the diesel generator jacket water cooling system with thermostatically actuated temperature control valves.

Because the thermostatic type temperature control valve had been successfully employed in a similar application (i.e., emergency diesel generator intercooler heat exchanger temperature control valves) and the plant response was not affected by the change to the jacket water cooling system, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2133, Permanent Heating for the Alternate Intake Structure

CHANGE DESCRIPTION

This design change refurbished the furnace burner controls, added ductwork and dampers, and installed piping, supports, shutoff valves, and pressure regulators that supply the propane gas to the furnace.

This change provided freeze protection and assures operability of the auxiliary river water system during severe winter weather. There are no safety systems affected by this change, and no failure modes associated with the change that could initiate a design basis accident. Failure of this heating system would not cause a release of radioactivity to the environment. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

DCP-2148, Unit 1 Main Transformer Changes

CHANGE DESCRIPTION

As a result of a temporary change in main transformers at Unit 1, disconnect switches which separate Unit 1 345 kV busses from Unit 2 were opened. This was necessary to limit possibly higher fault currents which could result from lower impedance of the replacement transformer. A new transformer with a preferable impedance was later procured. This safety evaluation was performed to allow the disconnect switches to be returned to their original closed position after the new transformer was installed.

No unreviewed safety question is involved because the change returned the switchyard and transmission system to its original, more reliable condition.

CHANGE TITLE

DCP 2152, Addition of Chemical Injection System Serving Unit 1 River Water System and Unit 2 Service Water System.

CHANGE DESCRIPTION

This design change installed a chemical injection system in the primary river water intake structure common to both units. The system enables injection of chemicals for treatment to prevent fouling and corrosion of safety related piping in the river water and service water systems.

The change has no effect on the performance of safety systems. Also, failure modes associated with the change cannot initiate design basis accidents. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2155, Permanent Supports for Cooling Tower Pump House Sump Pump Discharge Piping

CHANGE DESCRIPTION

Temporary cooling tower pump house sump pump discharge pipelines were added to redirect the discharge flow to the suction of the cooling tower pumps. These pipelines were made permanent by TER 9420. Design Change 2155 installed permanent supports for the pipelines and fittings to connect the new pipelines to the original sump pump discharge pipelines.

The changes do not create any new credible failure modes or affect the performance of any safety systems; therefore, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2158, Alternate Backup Source of Cooling Water to the Station Air Compressors

CHANGE DESCRIPTION

A new domestic water system line was installed to provide a backup source of cooling water to the station air compressors. Piping was also installed between the service water system and turbine plant component cooling water system to provide a second back-up cooling water supply for the station air compressors.

Because the change does not affect safety related components or the performance of safety related systems, and failure modes associated with the change do not present new unanalyzed design basis accidents or malfunctions, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2169, Turbine Lube Oil Purifier Upgrades

CHANGE DESCRIPTION

This modification installed a particulate and water coalescing filter assembly. The filter improved capability to remove particulate and water impurities from main turbine lubricating oil.

Because the change does not create new failure modes or affect the performance of safety systems, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2177, Service Water System Pump Seal and Filter Water Pipe Material Upgrade

CHANGE DESCRIPTION

This modification replaced carbon steel pipe, that supplies seal and filtered water, with stainless steel alloy pipe. The modification also replaced carbon steel valves with stainless steel valves.

Because the change does not affect the performance of the service water system and no new accidents or malfunctions have been created, no unreviewed safety question is involved.

CHANGE TITLE

DCP 2182, Time Delay for Recirculation Spray Radiation Monitors

CHANGE DESCRIPTION

This design change provided a ten minute time delay for starting radiation monitors which sample service water used to cool recirculation spray. Without the time delay, inadequate service water flow in the recirculation spray system could necessitate manual intervention to vent and prime the radiation monitor sample pumps.

Because the radiation monitors do not perform any automatic functions and the recirculation spray system is not called on to operate until 10.5 minutes after a Containment Isolation phase B (CIB) signal, delay of the radiation monitor sampling until 10 minutes after a CIB signal is not an unreviewed safety question.

CHANGE TITLE

DCP 2203, Motor Control Center Room Cooling Coil Replacement

CHANGE DESCRIPTION

This design change replaced the existing MCC room coolers. The new coolers are consistent with the original design requirements, but with upgraded materials. In addition the Service Water piping supplying the coolers was modified with new flanges to connect to the new coolers, and the cooler support was modified to remove the old coolers.

This change did not adversely affect the safety function of the Area Ventilation Cooling System or the Service Water System. The integrity and operability of the systems is maintained due to the new cooler's corrosion resistant materials, and no other systems were affected. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 8179, Replace the Carbon Steel Globe Valve at 2SWS-1171 with a Carbon Steel Ball Valve

CHANGE DESCRIPTION

The existing 3/4" carbon steel globe valve at the high point vent for the Service Water cooling line to the safeguards area air conditioning unit was replaced with a 3/4" carbon steel ball valve. The ball valve design is much less likely to clog or corrode and allows pipe access, when necessary for cleaning, without valve removal.

This change had no impact on the probability of failure of the Service Water System. Chances of the ball valve breaking off are the same as the existing globe valve, as both are installed by identical welds to qualified procedures. The valve functions as a normally closed vent, its loss would not make the air conditioning unit inoperable. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 8641, Replace Hard Tubing with Flexible Stainless Steel Tubing

CHANGE DESCRIPTION

This change replaced existing hard tubing between valve 2GWS-707 and the Oxygen Analyzer with flexible braided stainless steel tubing. This will aid in the maintenance and testing of the Oxygen Analyzer and valve 2GWS-707.

The assumptions and radiological consequences of any accident previously evaluated in the UFSAR was not increased because the reliability and integrity of the Gaseous Waste System was maintained and the modification had no effect on any other equipment. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 9349, Removal from Service of Gaseous Waste System Local Flow Indicator

CHANGE DESCRIPTION

Local flow indicator 2GWS-FIT103 measured waste gas flow to the waste gas storage tank (2GWS-TK25). The indicator was removed from service since it was no longer required to provide a flow input to radiation monitor 2GWS-RQI101. All associated field cable (2GWSNNK500) were spared and unscheduled cable and unscheduled conduit were removed. The flow transmitter and flow tube were retired in place.

The Gaseous Waste System is not safety related and no other systems are affected by the change; therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 9519, Pressurizer Power Operated Relief Valve Reanalysis

CHANGE DESCRIPTION

This TER identifies all the design inputs (in regards to piping stresses, heat trace setpoints, and operating considerations) required to support operation of the Unit 2 Pressurizer Power Operated Relief Valves (PORV) in accordance with the most recent revision of Technical Specification 3.4.11. The revised specification requires two PORVs to be operable at all times in modes 1-3, as opposed to the one previously required. The heat trace circuits for the PORV loop seal piping between the PORVs and their respective block valves will be allowed to operate at a reduced temperature of 335°F. Certain portions of the pressurizer discharge piping upstream of the block valves, however, will still be required to remain at 400°F.

The TER and its referenced analyses demonstrate that the expected stresses to this piping resulting from the discharge of a colder, more dense water slug will not be greater than those allowed under ASME section III, 1989 Version. As a result of using the later code, the existing piping class breaks and analytical requirements are not altered. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 9671, Retirement of Fire Wrap for Conduit 2CX9500A

CHANGE DESCRIPTION

Fire wrap for conduit 2CX9500A in Fire Area SB3 was retired in place. The conduit contains circuits related to the diesel generator tachometer and the voltage regulator. In lieu of the fire wrap, manual action is relied on to transfer the circuits to local control via the Alternate Shutdown Panel transfer switches.

No unreviewed safety question is involved because the change is consistent with the assumptions of the Safe Shutdown Report and requires manual actions similar to those specified for other fire areas.

CHANGE TITLE

TER 9721, Replacement of Undervoltage Relays

CHANGE DESCRIPTION

In order to reduce the probability of separation of the emergency busses from their normal supply in the event of a voltage transient, relays which sense this condition were replaced with others of greater precision. Greater precision allows setpoint changes and flexibility in choosing which station service transformer supplies station power. The new relays differ from the existing UFSAR description only with respect to their response time. The previous relays were described as instantaneous while the new ones have an approximate delay of 0.1 seconds.

No unreviewed safety question is involved because, as in the previous design, the relays trigger a 90 second timer which must time-out before bus separation occurs. Addition of an approximate 0.1 second delay is well within the 5 second tolerance of the timer. Therefore, the slight additional delay does not affect the function of the system as described in the UFSAR.

CHANGE TITLE

TER 9744, Quality Assurance Category Downgrade for Emergency Diesel Generator Intercooler Temperature Indicators

CHANGE DESCRIPTION

Emergency Diesel Generator (EDG) intercooler temperature indicators 2EGS-TI211-1 and 2EGS-TI211-2 were downgraded from QA Category 1 to QA Category 3. The two temperature indicators are used to provide local indication of the service water temperature entering each EDG intercooler.

Because the equipment being downgraded is isolated from the EDG intercooler pressure boundary, is not connected to any electrical circuit, and does not affect EDG performance; no unreviewed safety question is involved.

CHANGE TITLE

TER 9750, Gland Seal Steam Exhaust Annunciator Changes

CHANGE DESCRIPTION

This change spared an annunciator window, removed four inputs from another window, and deleted several plant computer system inputs. These changes were made to reflect previous removal of the gland seal steam exhaust charcoal filters.

Because the affected alarm and computer systems perform no safety functions and the changes were necessary to reflect the new plant operating configuration, no unreviewed safety question is involved.

CHANGE TITLE

TER 9786, Oxygen Analyzer Replacement

CHANGE DESCRIPTION

This TER evaluated permanent installation of two replacement oxygen analyzers (2GWS-OA100A and B) in the gaseous waste system. An analyzer bypass line was also provided to ensure sufficient flow through each analyzer is maintained.

The analyzers will continue to perform as discussed in UFSAR Section 11.3; therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 9805, Elimination of Degasifier Natural Circulation Operating Mode

CHANGE DESCRIPTION

Because the natural circulation method of maintaining a degasifier in standby mode was inadequate, this practice was discontinued in favor of forced circulation.

No unreviewed safety question is involved because no design change was made and a degasifier performs no safety function.

CHANGE TITLE

TER 9834, Retire Control Room Refrigerant Condenser Temperature Control Valves and Their Positioning Elements

CHANGE DESCRIPTION

Temperature control valves 2SWS-TCV101A and B in service water pipelines downstream of the Control Room refrigerant condensers were isolated and retired in place. Service water flow is now controlled by manual bypass valves.

Because service water system and area ventilation system performance is not affected by the change and no new unanalyzed accidents or malfunctions were created, no unreviewed safety question is involved.

CHANGE TITLE

TER 9952, Addition of Local Bimetallic Indicators to UFSAR Figure

CHANGE DESCRIPTION

This TER evaluated the addition of non-safety related temperature indicators (2CDS-TI303A1, A2, B1, B2, C1 and C2) to UFSAR Figure 9.2-17, "Chilled Water System." These indicators were original plant equipment and provide no automatic or safety function.

No unreviewed safety question is involved because the indicators do not affect operational performance of the system.

CHANGE TITLE

TER 9963, Condensate Polishing Ventilation Ductwork

CHANGE DESCRIPTION

This TER evaluated a change to vent the Backwash Receiving Tank (2CND-TK22) to the cubicle. The cubicle is ventilated by the Cubicle Air Filtration System and the Process Air Filtration System. The tank was previously vented through the Condensate Polishing Building Process Air Filtration System.

There are no credible failure modes that could initiate a design basis accident, or cause a new type of accident or malfunction. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 9970, Reconfigure Stuffing Box and Isolate Packing Injection Flow for Separator Drain Receiver Drain Pumps

CHANGE DESCRIPTION

This TER evaluated reconfiguration of the stuffing box for heater drain system separator drain receiver drain pumps (2HDH-P22A and B) and isolation of packing injection flow to the pumps.

Because the change has no effect on the performance of any safety systems and there are no design basis accidents for which failure modes associated with this change can be an initiating event, no unreviewed safety question is involved.

CHANGE TITLE

TER 10018, Downgrade Quality Assurance Category of Containment Filters

CHANGE DESCRIPTION

Containment area ventilation system filters (2HVR-FLTA-212A and -212B) were downgraded from Quality Assurance Category I to Category II. The filters are not required to operate during accident conditions.

The change does not adversely affect the performance of any safety system and does not introduce any new hazard beyond those already considered in the UFSAR; therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 10051, Downgrade Quality Assurance Category of Doors W-35-4 and CV-73-1

CHANGE DESCRIPTION

This TER downgrades doors from Quality Assurance Category F to Category 3. The doors are not part of fire barrier walls, and are no longer required to have a 3 hour fire rating.

Because the doors are not part of a fire barrier wall no unreviewed safety question is involved.

CHANGE TITLE

TER 10072, Remove Requirement for Fire Booster Pump

CHANGE DESCRIPTION

The fire booster pump was rendered inoperable. The two main fire pumps are designed and located such that a single (common mode) failure will not render both pumps inoperable.

Because the change does not affect the ability of the fire protection system to mitigate a fire, and does not increase the probability of a fire protection system failure, no unreviewed safety question is involved.

CHANGE TITLE

TER 10127, Retirement of Primary Deaerators and Associated Components

CHANGE DESCRIPTION

The primary make-up water deaeration equipment was retired in place. The equipment was retired by installing pipe caps and closing valves in adjacent piping.

The change retires equipment that is not required for plant operation and does not create a new unanalyzed type of malfunction; therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 10299, Remove Check Valves and Cap Demineralized Water Flush Lines to Sample System

CHANGE DESCRIPTION

Check valves 2PAS-55 and 2PAS-56 were removed from tubing that provided demineralized water to flush reactor coolant hot leg sample lines and residual heat removal sample lines. After removal of the check valves the tubing was capped.

Removal of the valves will not affect performance of the Post Accident Sampling System or create a new failure mode; therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 10318, Removal and Capping of Eight Category 1 Vent and Drain Valves

CHANGE DESCRIPTION

This modification removed eight vent and drain valves from the piping of the residual heat removal, main steam, and steam generator blowdown systems. The removed valves were replaced by a welded pipe cap. The manual vent and drain operations that utilized the removed valves can be accomplished through the use of other valves.

Because the replacement pipe caps maintain the passive integrity of the modified systems, the performance of the systems is not affected and no unreviewed safety question is involved.

CHANGE TITLE

TER 10322, Removal of Blind Section of Spectacle Flange

CHANGE DESCRIPTION

This change removed the blind side of a spectacle flange installed in the six inch relief line downstream of relief valves for the residual heat removal system letdown relief (2CHS-RV203), and regenerative heat exchanger (2CHS-RV8144). Removal of the blind section ensures that an isolation device will not be installed in the pressure relief line.

Because the change does not create any new failure modes and does not affect safety system performance, no unreviewed safety question is involved.

CHANGE TITLE

TER 10349, Replacement of Four Valves in the Station Air System

CHANGE DESCRIPTION

This change replaced 3/4 inch globe valves and a gate valve in the Station Air System. These drain and isolation valves are not safety related.

Because the change does not create a new type of malfunction and does not affect accident assumptions; no unreviewed safety question is involved.

CHANGE TITLE

TER 10359, Circuits in Fire Area SB-2

CHANGE DESCRIPTION

Based on testing, insulation material installed on a duct in Fire Area SB-2 is inadequate to provide protection as a 3 hour fire barrier. However, this fire barrier was found to provide adequate protection for the fire hazards in the area. In addition, it was determined that cables within the duct are not needed for safe shutdown following a fire in area SB-2.

Because the cables are adequately protected by the affected insulation material, and are not needed for safe shutdown following a fire in area SB-2, no unreviewed safety question is involved.

CHANGE TITLE

TER 10457, Drawing Discrepancies Associated with Valves in First Point Heater Level Control Piping

CHANGE DESCRIPTION

This TER corrected UFSAR Figure 10.4-17 by deleting the first point heater level control piping drain valve (2HDH-1011). Related discrepancies on other station drawings were also corrected. No equipment was removed or installed by this TER.

Because this change does not affect safety related equipment and no failure modes are associated with the change, no unreviewed safety question is involved.

CHANGE TITLE

TER 10468, Retire in Place Auxiliary Boiler Smoke Opacity Detector and Associated Instruments

CHANGE DESCRIPTION

The Technical Evaluation Report retired in place the smoke opacity detector and associated instruments provided for the back-up auxiliary boiler. The components are Quality Assurance Category III and are non-safety related.

No unreviewed safety question is involved because no safety related systems or design basis accidents are affected by the change.

CHANGE TITLE

TER 10491, Remove Check Valve 2FPW-83E from Station Drawings

CHANGE DESCRIPTION

Plant documents were updated to reflect the as-built configuration of the water-fire protection system.

The change will not affect any design basis accidents described in UFSAR Section 15 or the performance of the fire suppression system; therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 10531, Modification of Overpressure Protection System (OPPS) Setpoint

CHANGE DESCRIPTION

This modification revised the opening setpoints for the two Power Operated Relief Valves 2RCS*PCV455C and 456 used in the OPPS at Unit 2. The setpoints were reduced to account for factors which reduce the margin between the setpoints and design pressure limits.

Because the new setpoints provide additional margin to the design limit, no unreviewed safety question is involved.

CHANGE TITLE

TER 10560, Fire Protection Safe Shutdown Report Changes Identified in Problem Report 2-95-077

CHANGE DESCRIPTION

This TER involved analysis of the installed configuration of PNL-VITBS2-1A, 1C, 1D, and PNL-VITBS2-2A, 2C, 2D wiring, and required revision of the Fire Protection Safe Shutdown Report and UFSAR. The Fire Hazards Analysis for Fire Area CB-5 (Control Building Fan Room) presented in the UFSAR was revised to assume the loss of purple train power (due to the loss of distribution panel PNL-VITBS2-2A and 2-2D) and consequently support systems for the "B" diesel generator.

Because no new design basis accidents or malfunctions were identified and safety system performance is not changed, no unreviewed safety question is involved.

CHANGE TITLE

TER 10652, Retire 1B Steam Chest Pressure Transmitter In Place and Provide for Test Connection at the Associated Root Isolation Valve

CHANGE DESCRIPTION

This TER retired a redundant and unused pressure transmitter in place, disconnected the transmitter's pressure sensing line, installed a pipe cap at the associated root isolation valve, and changed the normal system alignment of the isolation valve from open to closed. The change was made to the non-safety related portion of the Turbine Main Steam System.

The change does not create new failure modes and does not affect the performance of safety related systems. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

TER 10675, Replace Vent Valve in the Quench Spray - Chemical Addition System

CHANGE DESCRIPTION

This change replaced a gate valve with a ball valve. The valve and associated piping are used as a vent path when the system is drained or filled.

Because no new failure modes are associated with the change, and the performance of safety related systems is not affected, no unreviewed safety question is involved.

CHANGE TITLE

TER 10685, Temporary Auxiliary Building Penetration Seal

CHANGE DESCRIPTION

A temporary penetration seal was installed in the auxiliary building. The seal was evaluated to ensure hazard boundary concerns (including fire, hydrostatic, and pressure boundary) were addressed.

Because the temporary seal is capable of withstanding the applicable hazard conditions, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Power to Diesel Generator Barring Devices

CHANGE DESCRIPTION

This safety evaluation was prepared to allow power supplies for area heaters in the diesel generator buildings to be disconnected and temporarily reconnected to the diesel barring devices instead. These changes were performed to allow diesel maintenance during bus outages while the plant was shutdown for refueling.

No unreviewed safety question is involved because the temporary power source was not safety-related and because safety-related equipment which was being used had been declared out of service.

CHANGE TITLE

Temporary Removal of Steel Wall Plates in Unit 2 Auxiliary Building

CHANGE DESCRIPTION

Steel wall plates were temporarily removed during the Unit 2 sixth refueling outage to permit preventive maintenance of fire dampers.

Because the plates are only necessary to provide a fire barrier during modes 5 and 6, and a fire watch is an acceptable alternative, no unreviewed safety question is involved.

CHANGE TITLE

Update Containment Penetration Table to Delete Note (1) From 14 Valves

CHANGE DESCRIPTION

At the time the Containment Penetration Table was removed from the Technical Specifications, several changes previously proposed had not been incorporated. This change deleted Note (1) which permitted valves to be opened on an intermittent basis, under administrative control.

Because the change only removes the authority to open valves under administrative control, there is no affect on the capability of the containment or on the potential for a release of the containment atmosphere following a design basis accident. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Fire Protection Water System Containment Penetrations

CHANGE DESCRIPTION

This change involved four containment penetrations associated with the fire protection water system. The penetration piping is normally drained and does not require provisions for overpressure protection (e.g., a pressure relief valve). This change revised fire protection water system entries in the UFSAR containment penetration table. The fluid column of the table was changed from "water" to "dry."

There are no credible failure modes associated with the change, and the change does not adversely affect the performance of the containment isolation system. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Update of the Containment Penetration Table to Make Minor Changes, Additional Clarifications, and Correct Minor Inconsistencies

CHANGE DESCRIPTION

At the time the Containment Penetration Table was removed from the Technical Specifications, several changes previously proposed had not been incorporated. This change made several minor changes, added clarifications, and corrected other minor inconsistencies.

The changes have no affect on the operation of the safety systems, but only affect the description and identification of containment isolation valves. The changes are minor or editorial. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Update of the Containment Penetration Table for Feedwater Lines

CHANGE DESCRIPTION

At the time the Containment Penetration Table was removed from the Technical Specifications, several changes previously proposed had not been incorporated. This change updates the containment penetration table for the feedwater line penetrations to reflect the appropriate valve configuration.

The main feedwater and auxiliary feedwater systems are sealed systems inside containment. The feedwater isolation valves receive an automatic isolation signal, and can be remote manually operated by the operator if necessary. The auxiliary feedwater control valves do not receive an automatic isolation signal although they can be closed by the operator if necessary. These valves meet the requirements of GDC 57 and are the only valves required to be listed for these penetrations as containment isolation valves. The simple check valves in these lines do not meet GDC 57 criteria and were removed as containment isolation valves. These changes do not alter the design or probability of failure of the containment isolation system. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Update Containment Penetration Table to Allow Use of Equivalent Downstream Isolation Valve

CHANGE DESCRIPTION

This change updates entries in the containment penetration table for penetrations 73, 74, and 75. A note was added to three containment isolation valves associated with the cited penetrations which supply steam flow to the turbine driven auxiliary feedwater pump. The note allows substitution of equivalent downstream valves.

Because the containment isolation function will continue to perform as required, no unreviewed safety question is involved.

CHANGE TITLE

Update of the Containment Penetration Table to Revise Feedwater Valve Stroke Times

CHANGE DESCRIPTION

At the time the Containment Penetration Table was removed from the Technical Specifications, several changes previously proposed had not been incorporated. This change updates the containment penetration table by changing the feedwater containment isolation valve stroke times from 5 seconds to 7 seconds and adding a note which describes the isolation time as a combination of valve stroke time and signal processing time.

Technical Specification Table 3.3-5 requires 7 seconds for feedwater isolation, which is consistent with the accident analysis assumptions. This time includes valve closure and signal processing time. This change modified the valve testing requirements for these valves to be consistent with the technical specification and accident analysis response time for feedwater isolation. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Update of the Containment Penetration Table to Remove Note (3)

CHANGE DESCRIPTION

At the time the Containment Penetration Table was removed from the Technical Specifications, several changes previously proposed had not been incorporated. This change updates the containment penetration table by deleting note (3) in the list of notes and removing it from applicable valves throughout the table.

Note (3) "these valves may be tested with water", is consistent with the exception to type C testing discussed in the NRC SER Section 6.2.6. Testing these valves with water is consistent with 10 CFR 50 Appendix J, which is also applicable to testing all the other containment isolation valves in accordance with Specification 4.0.5. The IST program details the testing required for these valves, therefore, this note served no purpose and was deleted from the applicable valves. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Add Reactor Vessel Level Instrumentation System to Containment Penetration Table and UFSAR

CHANGE DESCRIPTION

This change affects the Reactor Vessel Level Instrumentation System (RVLIS) information provided in the Unit 1 and Unit 2 Containment Penetration Tables and UFSARs. The documents were revised to indicate that the bellows operated hydraulic isolators located outside containment are credited as containment air isolation valves consistent with NUREG/CR-2628.

Because there are no credible failure modes associated with the change and the performance (design and operation) of the containment isolation system will not be changed, no unreviewed safety question is involved.

CHANGE TITLE

Containment Penetration Table

CHANGE DESCRIPTION

The change added radiation monitor discharge isolation valve 2MSS-SOV120 to the Containment Penetration Table. This isolation valve is located on the common discharge line of three monitors (2MSS-RQI101A, B, and C) and automatically opens on a safety injection signal to allow post accident monitoring of the steam lines.

The change is administrative in nature, there are no failure modes associated with the changes, and no design basis accidents are affected; therefore, no unreviewed safety question is involved.

CHANGE TITLE

Containment Leakage Rate Testing Frequency and Administrative Limits

CHANGE DESCRIPTION

The Containment Leakage Rate Testing Program (CLRTP) was developed to comply with revised Technical Specification 6.17 (Amendment 197/80) and 10 CFR 50 Appendix J, Option B. The CLRTP includes administrative leakage rate limits used in determining acceptable component and containment performance.

Because there are no new failure modes associated with the change and the ability of the containment to limit leakage as assumed in the design basis LOCA analysis will continue to be demonstrated, no unreviewed safety question is involved.

CHANGE TITLE

Installation of an Audio/Video CCTV Surveillance System During the Sixth Maintenance and Refueling Outage

CHANGE DESCRIPTION

This temporary modification installed a closed circuit television surveillance system in the Reactor Containment Building for the Unit 2 maintenance and refueling outage. Installation of this system involves the routing of IEEE rated cable which affects five fire stops and an electrical penetration. Twelve surveillance camera subsystems were installed. This modification was made to reduce personnel exposure by applying ALARA principles.

The temporary modification did not affect any plant operating system, and failure modes associated with the modification have no affect on safety related systems. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Bypass of Seal Water Starting Interlock for Cooling Tower Pumps

CHANGE DESCRIPTION

The cooling tower pump starting circuits contain an interlock that prevents starting when seal water pressure is low. Installation of a design change involving the seal water system temporarily required the use of alternate seal water supplies which do not pressurize the switch providing this interlock. Therefore, it was necessary to bypass the pressure switch until installation of the design change was complete.

Because the circulating water system (including the cooling tower pumps) performs no safety function and the temporary seal water supply was designed to provide water to the cooling tower pumps within the necessary time interval following starting of the pump, no unreviewed safety question is involved.

CHANGE TITLE

Retirement of Loose Parts Monitoring System

CHANGE DESCRIPTION

This evaluation permitted the loose parts monitoring system to be retired from service. The system was intended to detect a possible loose part in the Reactor Coolant System (RCS) by analyzing sound originating from the RCS.

The system provided no prevention or mitigation functions associated with safety related systems, and does not affect the performance of safety systems. In addition, the system cannot be credited with performing safety functions because the system does not meet GDC-1, is not redundant, is not powered from a safety related power source, and is not qualified per Regulatory Guide 1.97. Therefore, the change does not involve an unreviewed safety question.

CHANGE TITLE

Revised Minimum Operating Performance (MOP) Curve for Charging/High Head Safety Injection Pumps

CHANGE DESCRIPTION

The MOP curve was revised to include instrument uncertainties and diesel generator frequency variations. The new curve maintains the injection flow requirements of the safety analyses, even when instrument uncertainties and diesel speed variations were considered.

Because there are no credible failure modes associated with the change and the plant response is not changed, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Containment Sump Pump for Recirculation Spray Pump Test

CHANGE DESCRIPTION

A temporary containment sump pump was installed to support testing of the recirculation spray pumps during a refueling outage. The temporary change provides the capability to pump water from the containment sump to the liquid waste disposal system via containment isolation valve 2DAS*AOV100A.

Because a strainer is provided to prevent foreign material from entering and affecting the performance of containment isolation valve 2DAS*AOV100A, and no other safety related equipment required during a refueling outage is affected; no unreviewed safety question is involved.

CHANGE TITLE

Temporary Installation of Telephone and Computer Connections on the Turbine Deck

CHANGE DESCRIPTiON

Telephone and computer connections were made in order to accommodate temporary trailers located on the turbine deck for outage work. This entailed the breaching and resealing of fire barriers and the use of cable containing PVC which is to be minimized.

None of the affected systems are safety-related and the small additional quantity of combustible material contained in the cable was found to be inconsequential. Therefore, no unreviewed safety question is involved .

CHANGE TITLE

Installation of Temperature Data Logger for Temperature Measurement Inside Auxiliary Relay Panel

CHANGE DESCRIPTION

This Temporary Modification installed a non-contact temperature data logger for temperature measurement inside the auxiliary relay panel with and without the top and bottom cover plates. Temperature data was taken to ensure adequate ventilation was provided to remove the heat generated by the installed relays. The original relays were replaced because they exhibited signs of thermal degradation.

Temperature monitoring was performed while the plant was shut down. The non-contact temperature data logger is external to all the control relays, and a hazard review concluded that no adverse interaction or missile hazard exists. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Modification to Install Casing Vents on Chilled Water Circulating Pumps

CHANGE DESCRIPTION

This temporary modification removed the casing vent plug and installed a vent valve, tubing, and required fittings on each chilled water circulating pump (2CDS-P21A, B, and C) to allow controlled venting.

Because the change does not affect the performance of any safety system and does not create the possibility of a new type of accident, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Modification to Provide Gland Steam Condenser Exhaust Fan Piping Support

CHANGE DESCRIPTION

This temporary modification added a support on the discharge pipe for the gland steam condenser exhaust fans (2GSS-FN21A, B). The temporary support was used to reduce pipe loads on the fan housing.

No safety related systems are affected by the change and failure of the affected piping will not initiate a design basis accident; therefore, no unreviewed safety question is involved.

CHANGE TITLE

Heavy Loads Evaluation

CHANGE DESCRIPTION

Three heavy loads evaluations were performed to support tasks performed during the sixth maintenance and refueling outage at Unit 2. Loads evaluated include the lower internals lift rig, incore instrument floor plugs, and snubbers installed on the steam generators.

Heavy loads are controlled by site procedures to provide assurance that failure resulting in a dropped load will not occur. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Modification to Replace Drains for the Station Instrument Air Prefilters

CHANGE DESCRIPTION

This temporary modification replaced the rigid drain lines from instrument air prefilter 2IAS-FLT21 (located at the inlet to the instrument air system from the station air system) with flexible tubing and necessary fittings.

This temporary modification will not affect the performance of the instrument air system, accident assumptions or radiological consequences of any accidents; therefore, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Modification to Isolate Service Water to Main Steam Valve Area Cooling Coils

CHANGE DESCRIPTION

This temporary modification isolated service water flow to the main steam valve area cooling coils. Heat load in the main steam valve area will be rejected by fans through open louvers in the roof.

Because no new failure modes are associated with the change, and the cooling coils are not required to maintain equipment qualification temperatures in the area, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Modification to Install Reactor Coolant Pump Vertical Vibration Channel Filter

CHANGE DESCRIPTION

The vertical vibration channel of reactor coolant pump 21A was modified to include a filter. The filter is set to allow signals in the 600 rpm to 2400 rpm frequency range. The change was made to prevent signal spikes.

There are no new failure modes associated with the change and there is no change to the performance of any safety system; therefore, there is no unreviewed safety question.

CHANGE TITLE

Temporary Modification to Install Drain Line on Auxiliary Feedwater Pump 2FWE-P23B Outboard Gland Leakoff

CHANGE DESCRIPTION

A section of Auxiliary Feedwater Pump gland leakoff piping was replaced with stainless steel tubing (less than 1 foot long) and reinforced hose (approximately 5 feet long). The open end of the hose was inserted into the floor drain.

The change increases the reliability of the gland leakoff drain system (reduced the probability of drain line plugging), and does not affect the plant response to any postulated accident; therefore, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Modification to Remove Snubbers from Vent Port of Refueling Water Storage Tank Level Transmitters

CHANGE DESCRIPTION

Snubbers were temporarily removed from the vent port of refueling water storage tank level transmitters 2QSS-LT102A and B. The snubbers were removed to evaluate their effect on transmitter response during high winds.

The change did not introduce any new failure modes, and did not affect assumptions or radiological consequences of any design basis accidents. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Installation of Containment Electronic Dosimeter Reader Stations
CHANGE DESCRIPTION

Cables and terminations were provided to accommodate four electronic dosimeter reader stations in containment. This allowed workers to change radiation work permits without leaving the building. This involved the use of cable containing PVC which is to be minimized.

None of the affected systems are safety-related and the small additional quantity of combustible material contained in the cable was found to be inconsequential. Therefore, no unreviewed safety question is involved .

CHANGE TITLE

Procedure Change to Include a Secondary System Chemical Additive

CHANGE DESCRIPTION

This procedure change included dimethylamine as a secondary system chemical additive, for the purpose of corrosion protection.

Because using dimethylamine for corrosion protection will not change the performance or probability of failure of the main steam, feedwater, or steam generator blowdown systems, no unreviewed safety question is involved.

CHANGE TITLE

Change to Procedure for Connecting Monitoring Devices to Operating Plant Equipment

CHANGE DESCRIPTION

This safety evaluation permitted revision of a corrective maintenance procedure which is used when temporarily connecting monitoring devices to operating plant equipment. The change extended the allowed period of time that the device may remain installed from one week to two weeks. It also improved the loading analysis provision of the procedure.

The procedure required that an evaluation, which includes a loading analysis, must be performed for each point to be monitored. This ensured that safety system performance would not be degraded. Therefore, no unreviewed question is involved with this procedure change.

CHANGE TITLE

Addition of Nitrites to the Reactor Plant Component Cooling Water System

CHANGE DESCRIPTION

The change permits addition of nitrites to enhance corrosion inhibition properties.

Because there are no credible failure modes associated with the change, and the reactor plant component cooling water system is not required for safe shutdown of the reactor, no unreviewed safety question is involved.

CHANGE TITLE

Refueling Procedure 2RP-6R-2.10, Relaxation of Stud Elongation Procedure

CHANGE DESCRIPTION

Unit 2 reactor vessel stud tensioning procedures were revised to increase elongation tolerances. Increased elongation tolerances reduced the number of adjustments, time and radiation exposure involved.

Because the change does not create new failure modes or affect the performance of safety systems, no unreviewed safety question is involved.

CHANGE TITLE

Fuel Transfer System Cart Travel Limit Switches

CHANGE DESCRIPTION

This temporary modification eliminated travel limit switches associated with the fuel transfer system cart. A visual inspection was used along with torque readings to assure full travel of the cart.

Because credible failure modes associated with the change are not design basis accident initiating events, no unreviewed safety question is involved.

CHANGE TITLE

Change to Primary Drains Transfer Procedure

CHANGE DESCRIPTION

The procedure was revised to allow a temporary drain hose to be connected to the non-aerated vent header drain valve and routed to the local Auxiliary Buiiding sump. The change provided an alternate method of routinely draining the vent header until a permanent trap and drain line could be installed.

Because the change did not degrade the performance of any safety system, and postulated failures would not increase the radiological consequences of identified accidents, no unreviewed safety question is involved.

CHANGE TITLE

Change to Normal Valve Position for Primary Drains Transfer Tank

CHANGE DESCRIPTION

The primary drains transfer tank gas space sample valve (2SSR-AOV119A) is now maintained normally closed. This change reduced the possibility of contaminating samples. Sample lines from other sample locations connect to the sample line downstream of valve 1SSR-AOV119A.

Because the change does not affect any safety systems, no unreviewed safety question is involved.

CHANGE TITLE

Change to Normal Valve Positions for Chemical Addition Tank

CHANGE DESCRIPTION

The reactor plant component cooling water chemical addition tank inlet isolation valve is now maintained normally open. Also, chemical addition tank to surge tank A and surge tank B isolation valves are now maintained normally open. These changes allow continuous flow through the chemical addition tank to aid in mixing and oxygen control.

Because continuous flow through the tank has no potential effects beyond those already analyzed, no unreviewed safety question is involved.

CHANGE TITLE

2OM-18.3 Solid Waste Disposal System Valve List

CHANGE DESCRIPTION

The NSA position of valves 2WSS-15, 16, 57, 58, 85, 87, and 117 were changed from open to closed. The UFSAR Figure depicting valves 2WSS-106, 103, 8, 9, 10, 14, 121, 122, and 127 was revised to show these valves NSA closed, so that the UFSAR agrees with the operating manual. This change isolated subsections of the Solid Waste Disposal System.

Maintaining the valves NSA closed when the system is not in service does not increase the probability of failure of the system. The CVCS demineralizers are isolated from the system with a forward flush, back flush, and resin discharge valve, the header isolation valves only provide double isolation. The valves NSA change has no affect on the assumptions or radiological consequences of postulated radioactive releases due to liquid containing tank failures. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Circulation of the Refueling Cavity to the Spent Fuel Pool

CHANGE DESCRIPTION

Water from the refueling cavity was pumped to the purification system for cooling, and returned to the fuel transfer canal via a temporary hose. The fuel transfer canal was isolated from the spent fuel pool by a weir gate. Water in the fuel transfer canal returned to the refueling cavity through the fuel transfer tube.

Because of the fuel pool design, failure of the temporary hose would not reduce water level in the spent fuel pool below the top of the fuel stored in the spent fuel racks. Also, procedure initial conditions require that there be no fuel in the reactor vessel, and no movement of spent fuel in the spent fuel building. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Operating Manual - Instrument Air System Valve List Change

CHANGE DESCRIPTION

The NSA position of valves 2IAS-1018 and 2IAS-1021 was changed from open to closed. The valves are being maintained closed to isolate purge flow to the elevated release effluent monitors.

The change provides isolation of purge flow which would backflush the isokinetic nozzle orifices. Purge flow must be isolated to permit normal sample flow to the radiation monitor. Failure of the valve to open would not affect operation of the radiation monitor. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Change to Normal Position of Valves in Instrument Air Lines Providing Flow to Backflush Isokinetic Sample Nozzles

CHANGE DESCRIPTION

Instrument air isolation valves 2IAS-1018 and -1021 are now maintained normally closed. The change isolates air flow used to backflush isokinetic sample nozzles. The isokinetic nozzles provide sample flow to radiation monitors 2HVS*RQI109B, C and D.

Because the change permits normal sample flow to the radiation monitors, no unreviewed safety question is involved.

CHANGE TITLE

Revise Fire Pump Surveillance Interval

CHANGE DESCRIPTION

The fire pump surveillance interval was changed from once per week to once per month, consistent with NFPA code requirements.

Because the change does not affect the fire analysis, combustibles or other fire loading, no unreviewed safety question is involved.

CHANGE TITLE

Delete Carbon Dioxide System Puff Test Surveillance

CHANGE DESCRIPTION

A visual inspection of CO_2 system flow nozzles is performed instead of the "Puff Test." The visual inspection ensures CO_2 system flow nozzles are not obstructed.

Because design and operating parameters of the fire protection system are not affected, and no new failure modes were created, no unreviewed safety question is involved.

CHANGE TITLE

Fire Protection Program Organization Change and Other Administrative Changes

CHANGE DESCRIPTION

The Nuclear Power Division reorganization of May 1996 placed the Manager, System and Performance Engineering, (who is responsible for administration of the Fire Protection Program) under the Division Vice President, Nuclear Services Group. Other changes include clarification of the requirement for local fire department participation in the annual site fire drill, and application of new sprinkler performance standards specified in NFPA Recommended Practice 850 to the Unit 2 Turbine Building.

The first two changes are administrative in nature and do not affect system or component operating or design parameters. Although the sprinkler performance standard was revised, the plant response to a design-basis fire in the Unit 2 Turbine Building is unchanged. Therefore, no unreviewed safety question is involved.

CHANGE TITLE

Revise Fire Hazards Analysis to Account for Certain Insulation as Combustible Material

CHANGE DESCRIPTION

Certain insulation material identified in NRC Information Notice 95-27 was accounted for as a combustible material in the Fire Hazards Analysis, Calculation 10080-B-85, Rev. 4.

Because existing fire barriers exceed the newly established fire hazard, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Installation of Sprinklers for Temporary Outage Trailers on the Turbine Deck

CHANGE DESCRIPTION

A temporary fire protection sprinkler system was installed to protect temporary outage trailers during the sixth refueling outage.

Because the temporary sprinkler system provides acceptable fire suppression capability to protect plant structures and components, no unreviewed safety question is involved.

CHANGE TITLE

Engineering Memorandum 111103, Remove Fire Door CV-67-1 During Outage Activities

CHANGE DESCRIPTION

During Unit 2 refueling outages, while the plant is in Modes 5 and 6, the fire door between the Primary Auxiliary Building (PAB) and Cable Vault is removed. Removing the door makes it easier to get from the PAB to the reactor containment building. Fire areas PA-5 and CV-5 contain fire detection instrumentation and an hourly fire watch is required while the fire barrier is disabled.

Installed fire detection instrumentation and compensatory measures (fire watch) provide adequate protection for safety related equipment; therefore, no unreviewed safety question is involved.

CHANGE TITLE

Temporary Change to the Normal System Alignment of Steam Line C to Turbine Driven Auxiliary Feedwater Pump Isolation Valve

CHANGE DESCRIPTION

The normal system alignment of steam line C to turbine driven Auxiliary Feedwater [AFW] pump isolation valve 2MSS-17 was changed from open to closed. The change was necessary to stop leakage through the solenoid operated valve (2MSS-SOV105C) located downstream of 2MSS-17, until the valve was repaired.

Since the parameters of the system are not affected in a way which degrades system availability or performance, no unreviewed safety question is involved.

CHANGE TITLE

Updated Final Safety Analysis Report Section 9.5.1, "Fire Protection" and Appendix 9.5A, "Fire Protection Evaluation Report" Changes

CHANGE DESCRIPTION

This change affected the criteria for fire protection wrap of cables and associated safe shutdown components located in various fire areas. The criteria are identified in UFSAR Section 9.5.1 and Appendix 9.5A. The criteria for one hour barriers as applied to fire wrap protection was revised to credit fire rated material which provides protection commensurate with the hazards of the area.

Because the fire resistance rating of the fire wrap assemblies will continue to be acceptable for the fire hazards of the area, no unreviewed safety question is involved.

CHANGE TITLE

Change to UFSAR Appendix 9.5A Fire Protection Evaluation Report

CHANGE DESCRIPTION

The change deletes a fire hazards analysis description. Affected installations will be demonstrated adequate by analysis or upgraded as appropriate. Interim compensatory measures in the form of fire watch patrols will be in effect until the installations are demonstrated adequate.

The performance of safety systems is not affected and no new failure modes were identified which can be an initiating event; therefore, no unreviewed safety question is involved.