



10 CFR 50.59

Palo Verde Nuclear
Generating Station

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102-04538-CKS/SAB/CJJ
February 27, 2001

U. S. Nuclear Regulatory Commission
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Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, & 3
Docket Nos. STN 50-528/529/530
10 CFR 50.59 Report (January-December 1999)**

Pursuant to 10 CFR 50.59(b)(2), Arizona Public Service Company is submitting the enclosed report. This report is a compilation of the changes completed during January-December 1999 at PVNGS Units 1, 2, & 3. The enclosed report contains a brief description of the changes and a brief summary of the safety evaluation for each change.

No commitments are being made to the NRC by this letter. Should you have any questions, please contact Scott A. Bauer at (623) 393-5978.

Sincerely,

CKS/SAB/CJJ/kg

Enclosure

cc: E. W. Merschhoff
J. N. Donohew
J. M. Moorman

2001

ENCLOSURE

PALO VERDE NUCLEAR GENERATING STATION

ACRONYM/ABBREVIATION DEFINITION SHEET

AND

10 CFR 50.59 REPORT

JANUARY - DECEMBER 1999

Acronym/Abbreviation Definition Sheet

ACU	Essential Air Cooling Units	DVM	Digital Voltmeter
ADV	Atmospheric Dump Valve	DW	Deminerlizer Water
AF	Auxiliary Feedwater	EAL	Emergency Action Levels
AFAS	Auxiliary Feedwater Actuation System	EC	Essential Cooling
AFU	Air Filtration Unit	ECCS	Emergency Core Cooling System
ALARA	As Low As Reasonably Achievable	ECE	Equipment Change Evaluation
ANI	American Nuclear Insurers	ECT	Eddy Current Testing
ASI	Axial Shape Index	ED	Feedwater Heater Extraction
ASL	Approved Suppliers List	EDG	Emergency Diesel Generator
AVL	Approved Vendors List	EER	Engineering Evaluation Request
BAC	Boric Acid Concentrator	EOF	Emergency Operating Facility
BAMP	Boric Acid Makeup Pump	EOP	Emergency Operating Procedures
BDS	Blowdown Stack	EQ	Equipment Qualification
BFT	Blowdown Flash Tank	ERFDADS	Emergency Response Facilities Data Acquisition Display System
BWNS	Babcock & Wilcox Nuclear Services	ES	Safety Equipment Status
CALC	Calculation	ESF	Emergency Safety Features
CD	Condensate System	ESFAS	Engineered Safety Feature Actuation System
CEA	Control Element Assembly	ESPS	Essential Spray Pond System
CEDM	Control Element Drive Mechanism	EQID	Equipment Identification Numbers
CEOG	Combustion Engineering Owners Group	EW	Essential Cooling Water System
CH	Charging System	FBEV	Fuel Building Essential Ventilation
CIAS	Containment Isolation Actuation Signal	FBVAS	Fuel Building Ventilation Actuation System
COLR	Core Operating Limits Report	FME	Foreign Material Exclusion
COLSS	Core Operating Limit Supervisory System	FP	Fire Protection
CPC	Core Protection Calculator	FW	Feedwater
CREFS	Control Room Essential Filtration System	FWCS	Feedwater Control System
CRDR	Condition Reporting Disposition Request	FWLB	Feedwater Line Break
CSAS	Containment Spray Actuation System	GTG	Gas Turbine Generator
CS	Containment Spray	HELB	High Energy Line Break
CST	Condensate Storage Tank	HJTC	Heated Junction Thermocouple
CT	Condensate Transfer System	HPSI	High Pressure Safety Injection
CVCS	Chemical Volume Control System	HVAC	Heating, Ventilation, Air Conditioning
CW	Circulating Water System	IA	Instrument Air
DAWPS	Dry Active Waste Processing Storage Facility	ILRT	Integrated Leak Rate Test
DBA	Design Basis Accident	IPE	Individual Plant Examination
DBE	Design Basis Event	ITS	Improved Technical Specifications
DBM	Design Basis Manual	LBV	Licensing Basis Validation
DCF	Dose Conversion Factor	LFB	Large Feedwater Break
DCP	Design Change Package	LHR	Linear Heat Rate
DF	Diesel Fuel Oil and Transfer System	LOCA	Loss of Coolant Accident
DFWO	Deficiency Work Order	LOCV	Lower Condenser Vacuum
DG	Diesel Generator	LOP	Loss of Offsite Power
DS	Domestic Water System		

LPMS	Loose Parts Monitoring System	SESS	Safety Equipment Status System
LPSI	Low Pressure Safety Injection	SFP	Spent Fuel Pool
LRS	Liquid Radwaste System	SG	Steam Generator
LSRO	Licensed Senior Reactor Operator	SGTR	Steam Generator Tube Rupture
MEE	Material Evaluation Report	SIAS	Safety Injection Actuation Signal
MSIV	Main Steam Isolation Valve	SIS	Safety Injection System
MSLB	Main Steam Line Break	SMOD	Site Modification
NC	Nuclear Cooling	SOV	Solenoid Operated Valve
NES	Nuclear Engineering Services	SP	Spray Pond
NPSH	Net Positive Suction Head	SPCR	Setpoint Change Request
NQR	Non-Quality Related	SRT	Surge Rinse Tank
NSS	Nuclear Sampling System	SS	Sampling System
OBE	Operational Basis Earthquake	SSC	System, Structure and Component
ODCM	Offsite Dose Calculation Manual	SSE	Safe Shutdown Earthquake
ODCR	Outgoing Document Change Request	STE	Special Test Equipment
PASS	Post Accident Sampling System	TC	Turbine Cooling Water
PC	Fuel Pool Cooling	TI	Temperature Indicator
PM	Periodic Maintenance	TMOD	Temporary Modification
PMS	Plant Computer	TRM	Technical Requirements Manual
PPS	Plant Protection System	TSC	Technical Support Center
PRA	Probabilistic Risk Assessment	TSP	Temporary Shielding Protection
PRM	Process Radiation Monitor	UHS	Ultimate Heat Sink
PSV	Pressurizer Safety Valve	UT	Ultrasonic Testing
PUMS	Plant Multiplexer System	UV	Ultraviolet
PW	Pressurized Water	VCT	Volume Control Tank
QSPDS	Qualified Safety Parameter Display System	VDP	Vendor Document Procedure
RCA	Reactor Coolant Accident	WC	Chilled Water
RCP	Reactor Coolant Pump	WO	Work Order
RCS	Reactor Coolant System		
RMS	Radiation Monitoring System		
RMWPs	Reactor Makeup Water Pumps		
RPS	Reactor Protection System		
RTD	Resistance Thermal Detector		
RTP	Rated Thermal Power		
RVLMS	Reactor Vessel Monitoring System		
RWLMS	Reactor Water Level Monitoring System		
RWT	Reactor Water Tank		
SARCN	Safety Analysis Report Change Notice		
SBCV	Steam Bypass Control Valve		
SC	Secondary Chemical Control		
SCAT	Spray Chemical Addition Tank		
SCC	Stress Corrosion Cracking		
SDC	Shutdown Cooling		
SDCHX	Shutdown Cooling Heat Exchanger		
SDR	Supplier Document Register		

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Doc Type	Doc Number	Log Number	Description	Summary
CALC	01-MA-SI-991	99-00116	Calculation 01-MA-SI-991 was performed to provide limitations and constraints for reduced inventory evaluations.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
CALC	13-MC-CH-201.R6	99-00084	This calculation has been revised to incorporate a new process limit for the RAS set-point in determination of the ESF reserve volume.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
CRDR	2-9-0023	99-00026	This CRDR evaluated the introduction of transient materials inside the containment building during mode 1 to facilitate maintenance related activities.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
CRDR	2-9-0160	99-00067	This CRDR evaluated the introduction of transient materials (scaffold) inside the containment building during mode 1, 2, and 3 to facilitate the repair of pressurizer heaters.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
CRDR	93504	98-00085	This CRDR evaluated the introduction of transient materials inside the containment building during mode 1 to facilitate maintenance related activities.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
CRDR	9-9-0236	99-00028	This CRDR evaluated the introduction of transient materials inside the containment building during plant modes 3 and 4 during shutdown to facilitate refueling outage related activities.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
CRDR	9-9-0542	99-00072	This CRDR evaluated the introduction of transient materials (scaffold) inside the containment building during mode 1, 2, and 3 to facilitate the repair of pressurizer heaters.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DFWO	845318	99-00049	This DFWO separated the grounding from the lightning protection connections - Unit 2 Cooling Tower.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DFWO	865161	98-00215	This DFWO allowed the use of alternative materials for components in or connected to the Chemical Waste Neutralizer Tanks.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DFWO	870094	99-00101	This DFWO installed a new configuration for the lighting protection system for Unit 2 cooling tower.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
DFWO	874896	99-00040	This DFWO allowed Engineering to evaluate corrosion wastage to RCP2A clamp ring and closure nuts.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DFWO	886028	99-00088	This DFWO restored lines 1PDGNL173 and 1PDGNL174 to the design configuration in accordance with 01-P-DGF-701 and 01-P-DGP-001.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DFWO	894943	99-00106	This DFWO allowed the installation of a soft/rubber patch to the condenser water box vent nozzle which had developed a pin hole size leak. Final repair will be completed during the refueling outage.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DFWO	899856	99-00144	This DFWO repaired the Unit 1 "A" and "B" FW pump suction strainers. The repair of the suction strainers included removal of the mesh and reinforcing braces from the 3/8" base support.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DFWO	902195	99-00149	This DFWO repaired damaged thermocouple wires and termination boards on the Unit 1B EDG.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
DFWO	903448	99-00155	This DFWO allowed the plant to resume operation with SGN-PV1128 in its current position of not closed. Field troubleshooting demonstrated that the valve is permitting delivery of N2 at a substantial flow rate. This was a temporary condition scheduled to be reworked during U1R9.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	702183	95-00126	This DMWO replaced the Meteorological tower data transmission digital processor sub-system with a Campbell Scientific CR-10 Datalogger system.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	712500	97-00202	This DMWO replaced the ABB High Speed AR relays (SSOX-A&B) in the Subsynchronous Oscillation (SSO) protection circuit in the MA system with redundant Lockout Relays.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	725497	96-00054	This DMWO provided setpoints for the SI system valves installed under DCP 1,2,3-XJ-SI-192.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	736618	96-00004	This DMWO allowed the use of a polypropylene-lined valve in place of Kynar-lined valve in the caustic isolation valves to the chemical waste neutralization tanks.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
DMWO	749681	96-00150	This DMWO installed wiring changes in accordance with DM disposition. Site Mod. 1,2,3-SM-HD-001 was issued to install an Agastat Relay Model E7012PC-002 in EPGAL31C1 & EPGBL32C1 to initiate a time delay in the alarm contact. The DMWO recommended a 3 second time delay, however, the pre-trip alarm reset time has been determined to be approximately 3 seconds. To prevent the problem of resetting, the time delay will be set for 5 seconds.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	758708	96-00135	This DMWO installed a new RFM Mast Camera which will be a stationary, non-tilting camera. The existing camera can only be positioned by tilting the camera 60 degrees, severely limiting the viewing options the RFM operator has available to him. Also, the present design has no pan (side to side) viewing capabilities.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	762028	97-00040	This DMWO added new anode beds/rectifiers in Gas Turbine Generator and Units 1 & 2 DG fuel tank line areas and replenished/replaced anode beds in other Unit 1, 2 & 3 areas.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	782774	98-00147	This DMWO added a high point vent line on the charging pump suction line, downstream of check valve 2PCHAV118.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	793823	98-00190	This DMWO will provide alarm indication to the Control Room Operators that the ESFAS function of Dampers M-HJB-M01/M55, M02 and M03 have been challenged whenever the remote shutdown handswitch (CS-2) and the control board handswitch (CS-1) are maintained in the operable position simultaneously.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
DMWO	800082	98-00106	This DMWO installed permanent flow instrumentation at the discharge of the spent fuel pool cooling pumps to support pump and system testing and accurate flow rate determination.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced
DMWO	801398	98-00166	This DMWO replaced the existing hardware and software of the Plant Multiplexer System (PMUS) with new equipment in order to improve system reliability and availability.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	805020	97-00167	This DMWO modified the UV protection in switchgears ENANS01, ENANS02, ENBNS01 and ENBNS02.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced
DMWO	805371	97-00250	This DMWO revised the setpoint for RCP thrust bearing oil level alarm.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced
DMWO	810357	97-00242	This DMWO separated a common condensate discharge line on the Diesel Generator Starting Air Dryer.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced

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Doc Type	Doc Number	Log Number	Description	Summary
DMWO	812700	97-00249	This DMWO installed Bailey AV-2 positioners on the steam bypass control valves.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced
DMWO	820829	98-00185	This DMWO replaced a carbon steel elbow with a stainless steel elbow due to erosion/corrosion considerations.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	822501	97-00263	This DMWO installed a live load packing system on valves 13JEDNLV0501 and 502.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced
DMWO	835394	98-00170	This DMWO modified the temperature and pressure alarm set points associated with the Sulzer Bingham seals.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	836726	99-00036	This DMWO installed target nests for RCS templating in support of steam generator replacement in Unit 2.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
DMWO	837246	98-00100	This DMWO added replacement anode beds throughout Units 1, 2 and 3 as required.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	839733	98-00150	This DMWO installed essential and emergency lighting to support required Appendix R manual operations within the 'B' train emergency diesel generator cabinet.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	841605	98-00091	This DMWO added a means of disconnecting the 480 VAC power to crane MZANG20 from its pendant per OSHA regulations. The modification installed a 3-phase mainline contactor with pushbutton control to the existing control panel and pendant.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	849153	98-00130	This DMWO upgraded pipe supports 23CH037H00A and -H00B and a short section of pipe to enhance the design to support higher operating loads.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	852608	98-00141	This DMWO modified blowdown demineralizer water piping and air piping to remove a rupture disk and installed a thermal relief valve.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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DMWO	854094	98-0199	This DMWO changed the gas turbine generators PLC Ladder Logic.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	860319	99-00015	This DMWO replaced the existing Gas Turbine Generator (GTG) Displays with upgraded displays.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	869763	99-00030	This DMWO installed a sacrificial anode system for the flume beam on the cooling towers in Units 1, 2 and 3.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	870365	99-00041	This DMWO reduced the existing CSS header low water level alarm setpoint from the existing value of 115'-6" to 144' to align the alarm setpoint with the TS requirement of 113'.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
DMWO	871872	99-00029	This DMWO replaced carbon steel piping components with stainless steel due to erosion/corrosion considerations.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
DMWO	884728	99-00086	This DMWO installed a new sample valve on existing Secondary system sample lines (used to sample Feedwater).	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
EDC	99-00031	99-00006	This Paper Change Only EDC allowed the use of alternative materials for components in or connected to the Bulk Acid and Acid Day tanks.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
EDC	99-00094	99-00035	This EDC revised material class sheets DADA, GADA, and added HADB to allow substitution of chrome-moly pipe for carbon steel pipe in applications where erosion/corrosion is occurring.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
EDC	99-00373	99-00059	This Paper Only EDC added a note to pipe whip drawings 02-C-ZCS-806 and 02-C-ZCS-809 that indicated the u-bolts which are shown on the drawing are not required to be installed.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
E-PLAN	Rev. 20	98-00087	This E-Plan revision made changes to accurately reflect the minimum RP E-Plan staffing requirements as set forth in NUREG-0654/FEMA-REP-1, Rev. 1.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
MEE	02460	99-00124	This Material Engineering Evaluation (MEE) replaced carbon steel piping components with stainless steel due to erosion/corrosion considerations.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
MEE	02480	99-00161	This MEE documented an "Accept As Is" disposition for several cable runs of installed wire that did not meet the flammability requirements of IEEE-383.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	30DP-0WM12.R02	98-00127	This Procedure revision removed the requirement for personnel logging from Zone III areas.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	40OP-9CP01	99-00087	This Procedure revision changed the normal valve position for CPN-V023 and CPN-V024 to align Radiation Effluent Monitor SQB-RU-34 to sample the Power Access Purge exhaust line.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	40OP-9ED01	99-00013	This procedure revision allowed an alternate method for maintaining level in the Unit 3 ED system Blowdown Stack (BDS). The BDS had an obstruction in the normal drain line preventing normal level control.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
PROC	40OP-9SI02	99-00069	This procedure revision allowed for pressurization of HPSI hot legs for pressurization walkdown.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	40OP-9ZZ12	99-00057	This Procedure change allowed the batching of boric acid solution to the RWT using the RMWPs during refueling.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	4xAL-xRK5A	99-00078	This Procedure revision allowed the use of a redundant FBEV train to reduce airborne radioactivity levels in the Fuel Building following a design basis LOCA.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	73TI-3ED01	99-00076	This new Procedure raised the level in the HP feedwater heater 6A while monitoring performance parameters.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	73TI-9MB01	99-00115	This is a new Procedure, "Main Generator/Exciter Model Verification Test Procedure." The purpose of the tests to be performed validate the Main Generator and Exciter model parameters.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
PROC	74OP-9SP01.R5	99-00140	This Procedure revision added two 1/2' hoses to feed each spray pond with chemicals.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	74TI-9FW02	99-00095	This Procedure allowed for the placement of a portable corrosion product monitor into close proximity to the feedwater lines in order to determine if improved sampling for iron transport in the feedwater could be achieved.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
PROC	79IS-9SM01.R9	98-00196	This Procedure was revised to account for a non-functioning playback unit (SMR-102).	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F070	98-00109	This modification replaced the CS and LPSI mini-flow valve motor operators.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F087	98-00162	This SARCN was the result of the Licensing Basis Validation (LBV) Project. This SARCN updated Chapter 6 and Chapter 15, to correct errors of fact and descriptive material related to the previously postulated single failure of one breaker to achieve a fast transfer to a backup upower supply. It also included new LOCV and FWLB analyses.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
SARCN	98-F092	98-00191	This SARCN added an exception statement to section 1.8, response to Reg. Guide 1.12.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F098 & 98-F103	98-00138	These SARCN revisions were a result of CRDR 1-8-0368. The revision included two major elements. First, section 15.6.2 table and text was revised to omit any reference to the low letdown flow, Auxiliary Building high humidity, and VCT low level alarms. Secondly, the CVCS FEMA Table 9.3-7 Item 14b was revised to say that a low flow indication on FI-202 may be used to detect the malfunction.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F104	98-00152	This SARCN was a result of DMWO 847105, which replaced existing Target Rock Corporation Dual Pilot Assisted Solenoid Operated Valves (seal welded or bolted bonnet) on an as needed basis with Target Rock Corporation Single Pilot Assisted Bolted Bonnet Solenoid Operated Valves. The UFSAR was updated to reflect the new specification and code year for the procurement of the single pilot SOV from Target Rock Corporation.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F109	99-00065	This SARCN made the licensing bases consistent with the design bases of the plant. Calculations 13-NC-ZY-241 and 13-NC-ZY-235 have been revised to reflect as built HVAC flow condition of these facilities.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
SARCN	98-F111	98-00169	This SARCN was a result of EDC 98-00762. As part of the Design Basis Manual validation effort, a discrepancy was identified for the indicator scale range for components 1/2/3JHFAPDI0070.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F112	97-00137	This SARCN was incorporated as a result of DMWO 695386 which installed a second channel (RE-141B) of radiation detection for the condenser air removal system.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety has not been increased. The possibility of an accident of a different type or the possibility of a different type of malfunction has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F114	98-00211	This SARCN was a result of DMWO 789942 which deleted instruments JCHNFI0206 (H2) and JCHNFI0215 (N2).	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F119	99-00068	This SARCN corrected and clarified information contained in section 9.5.7, DG Lubrication System.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F131	98-00198	This SARCN was incorporated as a result of the revision to Calculation 13-JC-SI-202. Table 8.3-1 was revised to reflect larger low pressure safety injection pump loads.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
SARCN	98-F132	98-00204	This SARCN revised tables 9.2-4 and 9.2-9 to reflect as-built design information for the chemical addition tanks in the EW and NC systems.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F133	99-00055	This SARCN changed the PSV Blowdown Pressure and Blowdown Rate described in the UFSAR.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F134	98-00205	This SARCN revised parameters of the original design operating configuration of the DW System.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F136	98-00210	This SARCN was a result of new revisions 03, 05, 04 to Calculation 01, 02, 03-EC-MA-221. The revision to the calculations affected UFSAR table 8.3-3.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	98-F137	98-00209	This SARCN made the following revisions to the UFSAR: 1) Revised Table 6.2.4-2 to increase stroke time for RDA-UV23 from 30 seconds to 47.5 seconds, and; 2) Revised table 7.3-1B to annotate greater than/less than 59 second response time for RDA-UV23 on CIAS.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
SARCN	99-F002	99-00027	This SARCN updated the COLSS process testing description to reflect the current process.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	99-F003	99-00017	This SARCN revised the UFSAR to reflect the Radiation Protection department's new organizational structure.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	99-F020	99-00052	This SARCN revised the UFSAR to be consistent with changes made to the Equipment Qualification Program Manual (EQPM).	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	99-F021	99-00064	This SARCN corrected contradicting statements in the UFSAR regarding the limiting event for maximum pressurizer level and updates the information of the PSV operability.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	99-F029	99-00073	This SARCN revised UFSAR section 8.3.1.4.3 to include the design engineering evaluations in case of control and/or instrumentation cable trays and conduit overflow.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
SARCN	99-F049	99-00098	This SARCN revised the UFSAR to reflect the latest "Load on Bus (Amperes)" values, based on the revised calculation.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	99-F050	99-00139	This SARCN clarified sections that describe the control system response following a load rejection.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SARCN	99-F051	99-00138	This SARCN revised the definitions of the Refueling Water Tank (RWT) low and low-low level alarm functions.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
Security Plan	Rev. 23	99-00107	This Security Plan revision was issued to reflect the removal of security detection equipment mounted on the TSC building.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
SPEC	13-PN-294	99-00081	This Technical Specification created a design specification to provide approved leak seal methodology.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
TECH SPEC	95-010	98-00132	This Technical Specification revision involved the volume equivalents corresponding to SII wide range level currently listed in section 3.5.2.	This does not introduce an unreviewed safety question. This change to the Technical Specifications has been approved by the NRC. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TMOD	01-99-SA-004	99-00016	This TMOD installed improved BOP ESFAS grounding scheme and electronic noise suppression components.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TMOD	01-CH-1999-015 & 2-99-CH-009	99-00058	These TMODs installed a hose in parallel with CH-210X to increase the dilute flow available for the batching of boric acid solution to the RWT.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TMOD	01-CL-1999-014	99-00130	This TMOD installed connections to the outside containment flanges of the following penetrations in order to pressurize, measure and depressurize the containment structure to accomplish the Integrated Leak Rate Test (ILRT).	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TMOD	01-RC-1999-010	99-00108	This TMOD installed a PC based data acquisition system in the Control Room to record and analyze the following refueling water level monitoring system signals, during the U1 outage: two narrow range level signals, two wide range level signals, and the two shutdown cooling flow signals.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
TMOD	2-99-PW-001	99-00024	This TMOD installed portable cooling towers to provide cooling to one of the NC heat exchangers during PW system outage.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of an accident previously evaluated has not been increased. The probability/consequences of a malfunction to equipment important to safety has not been increased. The possibility of a different type of accident/malfunction has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
TMOD	2-99-RC-007	99-00037	This TMOD installed a PC based data acquisition system in the control room to record and analyze the following refueling water level monitoring system signals, during the U2 outage: two narrow range level signals, two wide range level signals, and the two shutdown cooling flow signals.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TMOD	3-98-SH-015	98-00208	This TMOD disabled the number one (1) sensor heater and installed a load resistor to simulate the heater circuit allowing the number five (5) sensor in the 'B' Train HSTC to remain operational.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TMOD	A-99-GT-001	99-00011	This TMOD replaced the existing gas turbine generator (GTG) #2 display (model #T-36) with an upgraded display (Model #T-37).	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TRM	98-R012	99-00008	This TRM change clarified that the FBEVAS cross-train trips can be credited to maintain two trains of FBEVS operable.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
TRM	99-R002	99-00010	This TRM revision changed the allowable leakage for ECCS piping outside of containment from 1 gpm to 3000 ml/hr.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TRM	99-R007	99-00083	This TRM revision is based on a revision to Calculation 13-MC-SI-215.R3. The changes reflect the revision to HPSI system and pump surveillance criteria.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TS Bases	98-B025	98-00195	This TS Bases change revised section 3.7.10, Essential Chilled Water System, to remove a reference under the section for Action B.1 and B.2 for two EC trains Inoperable. The reference could cause confusion regarding the appropriate actions to enter for the condition in which two EC trains are inoperable.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TS Bases	98-B026	99-00020	This TS Bases change modified LCO 3.7.5 to clarify PVNGS' position relative to which condition to enter for a hypothetical condition involving and INOPERABLE steam supply to AFA-P01 and another INOPERABLE fan.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TS Bases	98-B027	99-00007	This TS Bases change revised the bases for LCO 3.3.9 to specifically state that both trains of the Control Room Essential Filtration System (CREFS) receive an actuation signal for a single, operable Control Room Essential Filtration Actuation Signal (CREFAS). Therefore, both CREFS trains remain OPERABLE with one OPERABLE radiation monitor (either RU-29 or RU-30) and no BOP-ESFAS jumpers installed.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
TS Bases	98-B029	98-00203	This TS Bases revision incorporated guidance on what administrative controls would be established to ensure compliance with the Actions of LCO 3.6.3.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TS Bases	98-B029	98-00202	This TS Bases revision incorporated guidance on administratively controlling vents, drains, and test connections within containment penetrations.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TS Bases	98-B031	98-00015	This TS Bases revision changed the largest KW value for the D/G load rejection from 904 KW to 936 KW.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced.
TS Bases	98-B033	99-00002	The TS Bases for several surveillance requirements incorrectly stated that shutdown conditions were required to allow performance of the surveillance test. The change clarified the conditions required to perform the testing.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.
TS Bases & SARC�	99-B003/99-F005	99-00018	This 50.59 is in support of TS Bases 99-B003 and SARC� 99-F005. The TS Bases change revised section B3.6.4 to clarify the corresponding LCO values for containment pressure. The SARC� change also clarified discussions of the containment low pressure value given in section 6.2.1.1.3.6.	This does not introduce an unreviewed safety question. No changes to the TSs are required. The probability/consequences of accidents previously evaluated have not been increased. The probability/consequences of a malfunction to equipment important to safety have not been increased. The possibility of a different type of accident or malfunction has not been created. The margin of safety as defined in the basis of the TSs has not been reduced.

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Doc Type	Doc Number	Log Number	Description	Summary
TS Bases/ SARCN	98-B032/98-F082	98-00125	This 50.59 is in support of TS Bases 99-B032 and SARCN 98-F082. The revisions were the result of a revision to calculation 13-NC-ZC-233, Main Steam Line Break Inside Containment Pressure and Temperature Analysis for Structure Integrity and Equipment Qualification.	This does not introduce an unreviewed safety question. No changes to TSs are required. The probability/consequences of an accident previously evaluated have not been increased. The probability/consequences of a malfunction of equipment important to safety have not been increased. The possibility of an accident/malfunction of a different type has not been introduced. The margin of safety as defined in the basis of the TSs has not been reduced