

WOLF CREEK

NUCLEAR OPERATING CORPORATION

Richard A. Muench
Vice President Engineering

March 7, 1997

ET 97-0021

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-137
Washington, D. C. 20555

Subject: Docket No. 50-482: Revision 10 of the Wolf Creek Updated
Safety Analysis Report

Gentlemen:

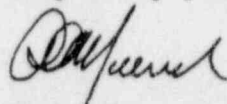
The enclosure to this letter provides the submittal of the Wolf Creek Updated Safety Analysis Report (USAR), Revision 10. This submittal satisfies the Final Safety Analysis Report (FSAR) updating requirement of 10 CFR 50.71 (e)(4). Ten additional copies of the USAR, Revision 10, have been shipped to the Document Control Desk as required by 10 CFR 50.4, 10 CFR 50.34, 10 CFR 50.54(a)(3), and 10 CFR 50.71(e).

Attachment 1 provides information relative to changes in regulatory commitments.

Specific technical changes that have been processed since issuance of the USAR, Revision 9, are described in Attachment 2 to this letter. In addition to these technical changes, several editorial changes have been made and are included in this revision. Many of the changes are the result of self assessments and heightened awareness of USAR compliance.

If you have any questions concerning this matter, please contact me at (316) 364-8831, extension 4034, or Mr. Richard D. Flannigan at extension 4500.

Very truly yours,



Richard A. Muench

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PDR ADOCK 05000482
K PDR

RAM/jad

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Attachments

Enclosure (Updated Safety Analysis Report)

cc: J. E. Dyer (NRC), w/a, w/e
W. D. Johnson (NRC), w/a, w/e
J. F. Ringwald (NRC), w/a, w/e
J. C. Stone (NRC), w/a, w/e



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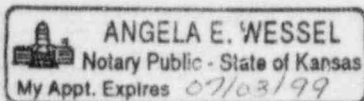
1/11

STATE OF KANSAS)
) SS
COUNTY OF COFFEY)

Richard A. Muench, of lawful age, being first duly sworn upon oath says that he is Vice President Engineering of Wolf Creek Nuclear Operating Corporation; that he has read the foregoing document and knows the content thereof; that he has executed that same for and on behalf of said Corporation with full power and authority to do so; and that the facts therein stated are true and correct to the best of his knowledge, information and belief.

By *Richard A. Muench*
Richard A. Muench
Vice President
Engineering

SUBSCRIBED and sworn to before me this 7th day of March, 1997.



Angela E. Wessel
Notary Public

Expiration Date *July 3, 1999*

Changes to Regulatory Commitments

This attachment provides discussion of changes made in the past year to regulatory commitments.

Commitment 86-046

In response to Notice of Violation 86-01 concerning the failure to comply with licensee's temporary modification procedure, a Quality Engineering review was established of work packages for activities with the potential for conduit, hoses, etc., to be temporarily restrained to facilitate the work effort. In addition, Quality Control was directed to verify temporary restraint removal upon completion of work.

The establishment and implementation of this action is viewed as a temporary measure. The action was designed to establish a methodology of preventing future violations due to programmatic and personnel weaknesses.

The long-term corrective action for this violation was the implementation of actions to enhance programmatic and procedure controls, enhance the awareness level of craft personnel and clearly communicate management's expectation regarding program and procedure compliance. WCNOC has implemented the long-term corrective actions and these corrective actions have been effective in preventing recurrence of this violation. Due to the implementation of program and responsibility changes, WCNOC suspended the temporary corrective action of Quality Engineering review of packages. No recurrence of the violation has been noted as a result of the suspension of the short term corrective actions. This indicates that the long-term corrective actions have been effective and the temporary corrective actions no longer add value. Therefore, this commitment was changed to delete the Quality review and verification of packages and restraint removal.

Commitment 88-093

Wolf Creek Operating Corporation committed in the 1988 Annual Environmental Report to survey for late summer corbicula (i.e., Asiatic clams) on an annual bases. In 1994, WCNOC reported to the NRC in an updated response to Generic Letter 89-13 that Asiatic clams were discovered in the Wolf Creek Lake. Generic Letter 89-13 states, "Samples of water and substrate would be collected annually to determine if Asiatic clams have populated the water source. Water and substrate sampling is only necessary at freshwater plants that have not previously detected the presence of Asiatic clams in their source water bodies. If Asiatic clams are detected, utilities may discontinue this sampling activity if desired." WCNOC has been monitoring distribution and spawning characteristics of the Asiatic clam in the lake for the last several years. Therefore, the monitoring for Asiatic clams on the Neosho River and the cooling lake can be discontinued.

Commitment 85-092

In the Wolf Creek Generating Station Environmental Report, the statement was made that, if the public is allowed on or around the lake, a security fence would be required for submerged Ultimate Heat Sink (UHS), buoys would be required at the exclusion area boundary, a motor boat would be required to reach remote lake areas, and a caretaker would manage public access. The first and third statement were implemented shortly after the operating license was issued. The Wolf Creek lake was opened to the public for fishing in 1996. Therefore, the above commitment was to be implemented. A caretaker has been hired. However, current plans do not include the placement of buoys at the exclusion area boundary. The presence or absence of buoys does not impact safety related structures. No changes are being made to the Essential Service Water, UHS, Component Cooling Water, or Fire Protection systems which interact with the lake. These areas are not included in the fishing areas. The buoys function would be to limit or restrict access to the exclusion/restricted area defined in technical specifications and to ensure compliance with 10 CFR 100.3(a). The impact of dose to the health and safety of the public has been evaluated and has been determined not to exceed any limits. In accordance with 10 CFR 100.3(a), the facility can and will continue normal operations, lake traffic will be controlled (through the use of a permit system and traffic monitoring) and emergency plan notification and evacuation has been developed (an additional siren was added and evacuation plans developed). The lake opening has also been evaluated under 10 CFR 50.59 and 10 CFR 50.54.

USAR Change Request	Description
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95-112	REVISES USAR TO REFLECT ADDITION OF TOOL SHOP BETWEEN SHOP BUILDING AND SUPPORT BUILDING WEST					
Page:	9.5-11	Page:	9.5-10	Page:	9.5-8	
Figure:	1.2-44	Sheet:	1			
95-122	REVISES FIGURE TO REFLECT THE RELOCATION OF COMPUTER AND COMMUNICATIONS EQUIPMENT IN THE MAIN CONTROL ROOM AREA					
Figure:	9.5.2-2	Sheet:	1			
96-016	REVISES FIGURE TO RESTORE TEMPORARY START-UP STRAINERS IN THE PUMP SUCTION PIPE SPOOLS AT THE STEAM GENERATOR FEED PUMPS					
Figure:	10.4-6	Sheet:	1			
96-017	REVISES FIGURE TO CORRECT COMPONENT NUMBERING DISCREPANCIES					
Figure:	9.3-4	Sheet:	1			
96-018	REVISES FIRE HAZARDS ANALYSIS TO DOCUMENT AND CORRECT FIXED COMBUSTIBLE LOAD AND ANNOTATE TRANSIENT COMBUSTIBLE LOADS					
Page:	9.5B-88					
96-021	REVISES CHAPTER 16 TO DELETE THE 10 HOUR REPORTING REQUIREMENT FOR METEOROLOGICAL INSTRUMENTATION OUT OF SERVICE					
Page:	16.3-6					
96-022	REVISES CHAPTER 3.11(B) TO CLARIFY MINIMUM NORMAL TEMPERATURE AND ANNOTATE SECTION 9.4.3.2.1 TO REFERENCE TABLE 3.11(B)					
Page:	9.4-33					
Table:	3.11(B)-1	Sheet:	6	Table:	3.11(B)-1	Sheet: 3
				Table:	3.11(B)-1	Sheet: 1
96-023	REVISES FIGURE TO REFLECT CORRECTION TO VALVE TAG NUMBERS					
Figure:	10.4-5	Sheet:	3			
96-024	REVISES FIGURES TO CORRECT DRAFTING ERRORS AND REFLECT THE AS BUILT CONDITIONS OF THE PLANT					
Figure:	9.2-5	Sheet:	4A	Figure:	9.2-5	Sheet: 3
				Figure:	9.2-5	Sheet: 4

USAR Change Request	Description
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96-025	REVISES FIGURE TO CORRECT REDUCER SIZE
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Figure: 9.2-1	Sheet: 2
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96-026	REVISES SECTION 9.5B TO ADD ARMAFLEX INSULATION AS A COMBUSTIBLE MATERIAL
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Page: 9.5B-217	Page: 9.5B-224	Page: 9.5B-221	Page: 9.5B-196
Page: 9.5B-68	Page: 9.5B-63	Page: 9.5B-59	Page: 9.5B-22
Page: 9.5B-15			

96-027	REVISE FIGURE TO ADD COMPONENT NUMBERS FOR SKID MOUNTED VALVES
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Figure: 10.4-5	Sheet: 1
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96-028	DELETE REFERENCE TO VALVE TIGHTNESS TESTING AND SPECIFY VALVE INSPECTION FREQUENCIES
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Page: 10.2-13

96-029	REVISES FIGURE TO CORRECT REFERENCE TO NON-SAFETY BUS
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Figure: 8.2-4	Sheet: 1
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96-030	REVISES FIGURE CAPTURING DESIGN BASES OF TUBE RUNS AND OTHER AS BUILT CONDITIONS
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Figure: 9.2-5	Sheet: 4
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96-031	REVISES SURVEILLANCE FREQUENCY FOR MAIN DAM, SADDLE DAMS AND BAFFLE DIKES
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Page: 2.5-314	Page: 2.5-307	Page: 2.0-xxi
Table: 2.5-91	Sheet: 1	Table: 2.5-90
		Sheet: 2

96-032	REVISES FIGURE TO REFLECT ACID AND CAUSTIC SAMPLING VALVES AND ASSOCIATED TUBING
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Figure: 10.4-5	Sheet: 3	Figure: 10.4-5	Sheet: 2
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96-033	REVISES FIGURE TO CORRECT VALVE TAG NUMBERS
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Figure: 9.3-1	Sheet: 4
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96-034	REVISES FIGURE TO CORRECT INCONSISTENCY BETWEEN FIGURES
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Figure: 9.5.6-1	Sheet: 1
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96-035	REVISES TABLE TO CHANGE ALERT ALARM SETPOINT FOR RADIATION MONITOR
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Table: 11.5-2	Sheet: 1
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96-038	REVISES FIGURES TO ADD A REFERENCE TO A CONTINUATION LINE
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Figure: 10.4-9	Sheet: 1	Figure: 9.3-1	Sheet: 4
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96-039	REVISES CHAPTER 16 TO ELIMINATE ONE OVERLOAD AND UNDERLOAD ON THE REFUELING MACHINE
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Page: 9.1-34	Page: 16.9-3	Page: 16.9-2
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96-040	REVISES CHAPTER 16 TO ALLOW THE USE OF A SAFETY INJECTION PUMP IN PLACE OF THE CENTRIFUGAL CHARGING PUMP FOR REACTOR COOLANT BORATION
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Page: 16.1-5	Page: 16.1-2	Page: 16.1-1
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96-041	REVISES CONTAINMENT LEAKAGE RATE TESTING INFORMATION TO REFLECT AMENDMENT 97 TO THE LICENSE WHICH ADOPTS OPTION B OF 10 CFR 50, APPENDIX J
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Page: 16.6-8	Page: 16.6-7	Page: 16.6-3	Page: 16.6-2
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96-042	REVISES SECTION 6.2 TO REFLECT ADDITIONAL POTENTIAL MINIMUM RESTRICTIONS IN THE ESSENTIAL COMPONENT COOLING WATER THROTTLE VALVES
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Page: 6.2-53	Page: 6.2-52
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96-043	REDUCES TARGET SIZE OF THE ABSOLUTE FILTRATION PROGRAM TO 0.1 MICRON. FILTRATION DOWNSIZING IS IMPLEMENTED IN ORDER TO REDUCE ACTIVATED CORROSION PRODUCTS IN THE REACTOR COOLANT SYSTEM AND SPENT FUEL POOL
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Table: 9.3-9	Sheet: 8	Table: 9.3-9	Sheet: 7	Table: 9.1-5	Sheet: 4
Table: 9.1-5	Sheet: 3				

96-044	REVISES FREQUENCY OF SURVEILLANCE REQUIREMENTS FOR THE TURBINE OVERSPEED PROTECTION
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96-045 **REVISES TABLE 3.11(B)-3 TO CHANGE SUPERCEDED SPECIFICATION NUMBER**

Table: 3.11(B)-3 Sheet: 9 Table: 3.11(B)-3 Sheet: 8 Table: 3.11(B)-3 Sheet: 94

96-046 **REVISES ANALYSIS ASSOCIATED TO CORE OPERATING LIMITS REPORT END OF LIFE MODERATOR TEMPERATURE COEFFICIENT AND ECCS FLOWRATES**

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 Figure: 15.1-2 Sheet: Figure: 15.1-1 Sheet:

96-047 **REVISES FIGURE TO CORRECT CONTINUATION ARROWS AND DELETE INFORMATION ADDED FROM 96-046 TO IMPLEMENTATION**

Figure: 9.3-1 Sheet: 1

96-048 **REVISES FIRE HAZARDS ANALYSIS FOR AREA A-1 AND A-19 TO REFLECT CHANGES IN THE LOCATION AND AMOUNT OF FIXED AND TRANSIENT COMBUSTIBLES**

Page: 9.5B-6B Page: 9.5B-11 Page: 9.5B-10 Page: 9.5B-9

96-049 **REVISES RESUME FOR SUPERVISOR OPERATIONS SUPPORT**

Page: 13.1-17

96-050 **CLARIFIES RELOCATED TECHNICAL SPECIFICATIONS TO ALLOW REMOVAL AND TESTING OF ALL PRESSURIZER CODE SAFETY VALVES SIMULTANEOUSLY**

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96-051 **REVISES RELOCATED TECHNICAL SPECIFICATIONS TO DELETE REQUIREMENT TO SUBMIT CERTAIN SPECIAL REPORTS TO THE NRC**

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96-052 **REVISES TEXT AND FIGURES TO REFLECT THE ADDITION OF A NEW AIR COMPRESSOR**

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 Figure: 9.2-1 Sheet: 2 Figure: 9.4-10 Sheet: Figure: 1.2-30 Sheet: Figure: 9.3-1 Sheet: 1

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96-053 REVISES FIGURE TO REFLECT LOCATION OF SEAL COOLER VENT VALVE

Figure: 5.4-7 Sheet: 1

96-054 REVISES FIGURES TO REFLECT THE USE OF LOW-ALLOY STEEL TO REDUCE WEAR OF PIPING DUE TO FLOW ACCELERATED CORROSION

Figure: 10.2-1 Sheet: 1 Figure: 10.4-6 Sheet: 3

96-055 REVISES FIGURE TO REFLECT SKID MOUNTED VALVE

Figure: 10.2-1 Sheet: 5

96-056 REVISES FIGURE TO CORRECT COMPONENT NUMBER

Figure: 9.2-1 Sheet: 3

96-057 PROVIDES CLARIFICATION ON RESIDUAL HEAT REMOVAL SYSTEM HOT LEG RECIRCULATION, MANUAL OPERATION OF VALVES, AND SWITCHING FROM INJECTION TO COLD LEG RECIRCULATION

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96-058 REVISES ORGANIZATION TO REFLECT THE APPOINTMENT OF NEW VICE PRESIDENT ENGINEERING

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USAR Change Request**Description****96-059 REVISES USAR TO REFLECT RECENT CHANGES TO THE ORGANIZATION**

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96-060 REVISES QUALITY PROGRAM TO REFLECT EVALUATION PROCESS

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96-061 CORRECTS FIGURE TO REFLECT ORIENTATION OF CONTAINMENT TOOL ROOM

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96-062 REVISES RESUME OF THE CHEMISTRY SUPERINTENDENT TO REFLECT CURRENT QUALIFICATIONS

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96-063 REVISES FIGURE TO REFLECT VALVE POSITION

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96-064 REVISES DESCRIPTION OF REMOVAL OF CONTROL ROD DRIVE MECHANISM DUCT WORK FOR REFUELING

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96-065	REVISES ORGANIZATION TO REFLECT THE APPOINTMENT OF THE SUPERINTENDENT OPERATIONS AND REPORTING OF SHIFT SUPERVISORS										
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96-066	REVISES FIGURE TO DEPICT THE ADDITION OF A VALVE IN THE HOT WATER SUPPLY LINE IN THE DOMESTIC WATER SYSTEM										
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96-067	REVISES CHAPTER 12 TO REFLECT THE USE OF ELECTRONIC DOSIMETERS, TO SHOW CURRENT HEALTH PHYSICS FACILITIES, TO CORRECT TYPOGRAPHICAL ERRORS AND MAKE ADMINISTRATIVE CHANGES										
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96-068	REVISES OPERATIONS ORGANIZATION TO REFLECT THE ASSIGNMENT OF A NEW CHIEF OPERATING OFFICER										
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96-070	REVISES FIGURES AND TEXT TO REFLECT THE REMOVAL OF ULTRASONIC LEVEL TRANSMITTERS AND ABANDONMENT OF LEVEL ELEMENTS IN THE SOLID RADWASTE SYSTEM										
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96-071	REVISES CHAPTER 17 TO DELETE REFERENCE TO THE VOIDED CORPORATE QUALITY MANUAL										
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96-072	REVISES BUILDING AND STRUCTURE TITLES										
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96-073	REVISES GENERAL EMPLOYEE TRAINING DESCRIPTION TO CONFORM TO INDUSTRY GUIDANCE FOR PLANT ACCESS TRAINING AND RADIATION WORKER TRAINING										
Page:	13.2-25		Page:	13.2-24		Page:	13.2-23				

USAR Change Request	Description
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96-074	CLARIFIES SURVEILLANCE REQUIREMENTS TO BETTER DEFINE THE ACTIONS WHICH WOULD INVOLVE A CHANGE TO THE CONTENTS OF A GAS DECAY TANK
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96-075	REVISES USAR TO REFLECT PUBLIC ACCESS TO THE LAKE
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96-076	REVISES USAR TO INCORPORATE AMENDMENT 95 FOR THE FUEL HANDLING ACCIDENT ANALYSIS
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96-077	REVISES ORGANIZATION TO EXCHANGE THE REPORTING OF SYSTEM ENGINEERING AND INTEGRATED PLANT SCHEDULING
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96-078	REVISES USAR TO REFLECT ASSIGNMENT OF NEW OPERATORS
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96-079	REVISES USAR TO REFLECT THE FUNCTION OF THE AUXILIARY FEEDWATER IN RESIDUAL HEAT REMOVAL
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96-080	REVISES USAR FIGURE TO REFLECT THE ADDITION OF AND THE DELETION OF MINOR STRUCTURES
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96-081	REVISES TABLE TO CLARIFY VALUES AS NOMINAL
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USAR Change Request**Description****96-082 DELETES REFERENCES TO PROGRAM DESCRIPTIONS**

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96-083 REVISES FIGURE TO REFLECT CHANGES TO PIPING MATERIAL ON LINE CA042HBD-1

Figure: 10.4-4 Sheet: 1

96-084 REVISES REGULATIONS DESCRIPTIONS TO INCLUDE THE MAINTENANCE RULE

Table: 1.3-4 Sheet: 19

96-085 CLARIFIES REQUIRED PATHS FROM RADIOLOGICAL WASTE STORAGE TANK OR BORIC ACID TANKS

Page: 18.1-3

96-086 REVISES CONDUCTIVITY UNIT TO MORE COMMON EQUIVALENT

Page: 9.2-23

96-087 CLARIFIES THE USE OF RESTRICTED AREA TO DEFINE THOSE CONTROLS TO MEET 10 CFR 50.36

Page: 2.1-2

96-088 REVISES FIGURES TO REFLECT INSTALLATION OF NEW TEMPERATURE CONTROLLERS

Figure: 10.4-6 Sheet: 8 Figure: 9.2-14 Sheet: 1 Figure: 10.4-6 Sheet: 7

96-089 REVISES FIGURE TO REFLECT THE INSTALLATION OF A PRESSURE GAUGE BETWEEN VALVE EJ8703B AND PENETRATION 27

Figure: 5.4-7 Sheet: 1

96-090 REVISES FIGURE TO REFLECT ALL TEMPERATURE INPUTS FOR SECONDARY LIQUID WASTE SYSTEM INDICATOR

Figure: 10.4-12 Sheet: 4

USAR Change Request**Description**

96-091	REFLECTS THE ADDITION OF VOLTS PER HERTZ RELAY TO THE DIESEL GENERATOR PROTECTIVE RELAY PANELS							
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96-092	REFLECTS THE ADDITION OF EXCITER POWER POTENTIAL TRANSFORMER FUSE FAILURE CURRENT TRANSFORMERS/RELAY ANNUNCIATING CIRCUITRY TO THE DIESEL GENERATOR CONTROL AND PROTECTIVE RELAY PANELS							
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96-093	REVISES FIGURE TO REFLECT THE INSTALLATION OF ROUND CELL BATTERIES							
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96-097	REVISES INFORMATION ASSOCIATED TO FORMATION OF FRAZIL ICE							
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96-098	CORRECTS TYPOGRAPHICAL ERROR ON FIGURE 17.2-1							
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96-102	DELETES DISCUSSION FOR SEISMIC LOADING FOR TEMPORARY STRUCTURES							
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96-104	REVISES FIGURE TO REFLECT A CHANGE IN LOGIC FOR THE EMERGENCY FUEL OIL TRANSFER PUMP AND A CHANGE TO THE FUEL OIL DAY TANK STANDPIPE VENT. THIS CHANGE WILL ENHANCE THE RELIABILITY OF THE TRANSFER PUMP BY GREATLY REDUCING THE ON-OFF CYCLING OF THE PUMP							
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96-105	REVISES FIGURE TO REFLECT THE REPLACEMENT OF TWO VALVES WITH REMOVABLE SPOOL PIECES TO ALLOW FOR MORE ACCURATE ULTRASONIC FLOW MEASUREMENT							
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96-106	REVISES ORGANIZATION TO REFLECT THE TRANSFER OF SUPPLIER/MATERIAL QUALITY AND MATERIAL ENGINEERING FUNCTIONS TO THE PURCHASING AND MATERIAL SERVICES ORGANIZATION
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96-107	CORRECTS PAGE TO REFLECT POWER RERATE MEGAWATTS
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96-108	CLARIFIES COMMITMENT TO REGULATORY GUIDE TO REFLECT THE USE OF THE CORRECTIVE ACTION PROGRAM FOR QUALITY EVALUATION FINDINGS
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96-112	REVISES FIGURE TO REFLECT CHANGE IN PIPING MATERIAL TO REDUCE CORROSION EFFECTS
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96-113	REVISES FIGURES AND DISCUSSION TO REFLECT VALVES THAT HAVE BEEN ABANDONED IN PLACE
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96-114	REVISES TEMPERATURE FOR THE BLOWDOWN FLUID DISCHARGE FROM THE NON-REGENERATIVE HEAT EXCHANGER
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96-117 REVISES FIGURE TO REFLECT THE ADDITION OF AN EYEWASH STATION IN THE TURBINE BUILDING

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96-118	REVISES THE USAR TO BE CONSISTENT WITH TECHNICAL SPECIFICATIONS REGARDING SPENT FUEL POOL RACK DIMENSIONS AND MAXIMUM ALLOWED ENRICHMENT STORED IN THE SPENT FUEL POOL AND NEW FUEL STORAGE FACILITY										
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96-119	REVISES USAR TO REFLECT CHANGES TO THE ORGANIZATION										
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96-120	REVISES TURBINE BUILDING CONDENSER PIT ALARM RESPONSE										
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96-122	REVISES USAR TO REFLECT CHANGES ASSOCIATED WITH AMENDMENT 101										
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96-123	REVISES ORGANIZATION TO REFLECT CHANGE IN MANAGER INTEGRATED PLANT SCHEDULING AND THE PLANT SAFETY REVIEW COMMITTEE CHAIRMAN										
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96-125	REVISES CHAPTER 13 TO ADD INFORMATION ASSOCIATED TO EMERGENCY DIESEL GENERATOR. THIS INFORMATION HAD BEEN OMITTED FROM REVISION 0 OF THE USAR IN ERROR										
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96-126	ADDS NON DISCHARGING SEWAGE LAGOON NORTHEAST OF PLANT										
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96-127	REVISES USAR TO REMOVE AUTOMATIC MITIGATION BORON DILUTION EVENT ON FLUX DOUBLING										
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96-128 REVISES USAR TO IMPLEMENT AMENDMENT 96

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96-129 REVISES FIGURE AND DISCUSSION TO REFLECT ADDITIONAL INSTRUMENTATION AT ESSENTIAL SERVICE WATER PUMP HOUSE AND REVISES FIRE HAZARDS ANALYSIS

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96-130 REVISES TITLES IN LIST OF FIGURES AND TABLE 3B-7 TO REFLECT HISTORICAL REFERENCE DATA

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96-132 REVISES CABLE DERATING AND CABLE TRAY FILL DURING DETERMINATION OF CABLE AMPACITIES

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96-133 REVISES USAR TO INCORPORATE ADDITIONAL CHANGES ASSOCIATED WITH ESSENTIAL SERVICE WATER WARMING FLOW

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96-135 REVISES PARAMETERS USED IN EVALUATING THE RADIOLOGICAL CONSEQUENCES OF STEAM GENERATOR TUBE RUPTURE

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96-137 REVISES USAR TO CORRECT CHANGES MADE BY USAR CHANGE REQUEST 95-003 TO ORIGINAL REQUIREMENTS

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96-138	REVISES ORGANIZATION TO REFLECT CHANGE IN REPORTING OF REGULATORY SERVICES												
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96-139	REVISES VALUES OF THE ACTIVITY RELEASED TO THE ENVIRONMENT IN TABLE 15.7-5 AND 15.7-7												
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96-141	REVISES FIGURES TO REFLECT RAMP IN CONTAINMENT VERSUS STAIRS												
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96-143	REVISES LOCATION AND TYPE OF FIRE EXTINGUISHERS IN ROOMS 7225 AND 7226												
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96-144	REVISES FIGURE TO REFLECT CR MOLY VERSUS CARBON STEEL PIPING												
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96-146	REVISES FIXED COMBUSTIBLES FOR FIRE ZONE RB-5 TO ACCOMMODATE PERMANENT TOOL ROOM IN CONTAINMENT												
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96-149 REVISES FIGURE TO REFLECT NORMALLY CLOSED POSITION FOR BGV133 AND DELETES BGPI0184 FROM TABLE

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96-150 REVISES CUBICLE DESIGNATIONS IN FIGURE FOR LOAD CENTERS AND REMOVES LABEL DESIGNATIONS FOR DISCONNECT SWITCHES

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96-151 REVISES USAR AND TABLES TO REFLECT CHANGE IN FILTER MEDIA AND MICRON RATING FOR RAD WASTE SYSTEM

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96-152 REVISES USAR TO REFLECT CONSISTENT DESCRIPTION OF AUXILIARY FEEDWATER PUMP START SIGNAL

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96-153 REVISES USAR, FIGURES, AND TABLES TO REFLECT ADDITION OF NITROGEN SPARGING SYSTEM FOR CONDENSATE STORAGE TANK

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96-154 REVISES USAR IN ACCORDANCE WITH AMENDMENT 90

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96-156 REVISES FIGURES TO CHANGE CARBON STEEL PIPING IN MAIN TURBINE SYSTEM TO CR MOLY

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96-157 REVISES FIGURE TO SHOW ADDITION OF FILTER DRAIN VALVE AND EXISTING VENTS

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96-158 REVISES AND CLARIFIES USAR AND TABLE TO REFLECT CORRECT TEMPERATURE AND DELETES REFERENCE TO TEMPERATURE DIFFERENTIAL ACROSS SHIELD WALL

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96-161 REVISES USAR TO CORRECTLY REFLECT FIRE ZONES A-15, A-16, AND A-33

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96-163 REVISES FIGURE TO CORRECT TYPOGRAPHICAL LABELING ERROR

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96-165 REVISES FIGURE TO REFLECT REPLACEMENT FLOW SWITCH ON CONTROL ROOM HUMIDIFIER

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96-166 REVISES TABLE TO BE CONSISTENT WITH CURRENT LICENSING BASIS ANALYSIS FOR MAINSTEAM BREAK MASS AND ENERGY RELEASE ANALYSIS

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97-005 REVISES FIGURE TO REFLECT TEMPERATURE ELEMENT IS MONITORED BY COMPUTER

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97-006 REVISES FIGURE TO CORRECTLY IDENTIFY COMPONENT IDENTIFICATION NUMBERS

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97-007 REVISES FIGURE TO CORRECTLY SHOW DESIGN FAILURE MODE OF MAIN STEAM ISOLATION VALVES

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97-010 REVISES FIGURE TO REFLECT THE FAILED POSITION OF A VALVE

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97-011 REVISES USAR AND FIGURES TO REFLECT NEW DESIGN OF SECONDARY SAMPLE COOLING SYSTEM

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97-012 REVISES USAR, TABLE, AND FIGURE TO REFLECT ABANDONMENT OF TURBINE FLOW METER

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97-014 REVISES FIGURE TO ADD TURBINE EXHAUST HOOD TEMPERATURE INDICATORS

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97-015 REVISES FIGURES AND TABLE TO REFLECT REPLACEMENT OF HYDRAZINE ANALYZER

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97-016 REVISES USAR AND TABLES TO INCORPORATE CORE PHYSICS AND CORE THERMAL-HYDRAULIC ANALYSIS METHODOLOGIES ASSOCIATED WITH AMENDMENT 92

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97-017 REVISES FIGURE TO REFLECT AS BUILT CONDITION - DELETION OF VALVE

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97-018 REVISES FIGURE TO CHANGE NORMALLY OPEN POSITION OF VALVE TO NORMALLY CLOSED

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97-022 REVISES USAR TO REFLECT THE APPOINTMENT OF A NEW CHIEF EXECUTIVE OFFICER

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97-023 REVISES USAR TO DOCUMENT ADDITION OF LOCAL MANUAL CONTROLLER AND SPATIAL SEPARATION ZONE FOR FIRE SAFE SHUTDOWN

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97-025 **REVISES CHAPTER 9 TO REFLECT THE INSTALLATION OF A WET PIPE SPRINKLER SYSTEM IN THE AUXILIARY FEEDWATER PIPE CHASE AREA TO ELIMINATE THE NEED FOR THERMO-LAG ENCLOSURES**

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97-027 **REVISES TEXT AND FIGURE TO REFLECT ESSENTIAL SERVICE WATER HEATERS ABANDONED IN PLACE**

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97-028 **REVISES FIGURE TO SHOW THE CHANGED SAMPLE FLOW TO THE SILICA ANALYZERS**

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97-029 **REVISES FIGURE TO CHANGE FIRE PROTECTION RELIEF VALVE SETTING**

Figure: 9.5-1 Sheet: 1

97-030 **REVISE FIGURE TO CHANGE OUT STEAM SEAL PNEUMATIC CONTROLLERS**

Figure: 10.4-4 Sheet: 1

97-031 **REVISE USAR TEXT AND FIGURE TO REMOVE AUXILIARY STEAM CONDENSATE RECOVERY TANK CONDUCTIVITY CELL**

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97-032 **REVISE FIGURE TO SHOW ABANDONMENT OF VELOCITY PROBES**

Figure: 9.4-6 Sheet: 4

97-033 **REVISE USAR TEXT AND FIGURE TO SHOW PROVISION FOR REACH RODS FOR MANUAL VALVES IN FILTER AND DEMINERALIZER VALVE COMPARTMENTS**

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97-035	REVISE FIGURE TO SHOW CHANGES TO DESIGNATED HEAT EXCHANGER VALVES CONNECTIONS CONFIGURATION				
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97-038	REVISE FIGURE TO REFLECT CHANGE TO CONDENSATE DEMINERALIZER SYSTEM				
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97-039	REVISE FIGURE TO REFLECT MODIFICATIONS IN THE REACTOR COOLANT SYSTEM				
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97-040	REVISE TEXT AND FIGURE TO ADD CROSS-TIE LINE BETWEEN NORMAL LETDOWN AND CHARGING SYSTEMS				
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97-041	REVISE FIGURE TO REFLECT MODIFICATIONS TO HOT TOOL ROOM				
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97-042	REVISE FIGURE TO REFLECT INSTALLATION OF TEMPORARY TEMPERATURE MONITORING INSTRUMENTATION ON CHEMICAL AND VOLUME CONTROL SYSTEM AUXILIARY SPRAY INJECTION PIPING				
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97-045	REVISE USAR TO REFLECT MODIFICATIONS TO THE REFUELING MACHINE				
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97-046	REVISE FIGURE REFLECTING ADDITION OF PRESSURE CONTROL VALVE TO CONDENSATE SYSTEM				
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97-047	REVISES USAR TO MODIFICATION TO LEVEL GAUGES IN CONTAINMENT RECIRCULATION SUMPS									
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97-048	REVISE FIGURE TO APPROVE REPLACEMENT SERVICE WATER PUMP DISCHARGE ISOLATION VALVES									
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97-050	REVISE FIGURE TO SHOW MODIFICATIONS TO EACH SERVICE WATER PUMP DISCHARGE AND VENT LINE TO THE CHECK VALVE COVER									
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97-051	REVISE FIGURES TO SHOW REPLACEMENT OF START-UP STRAINERS WITH SPACER RINGS									
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97-052	REVISE FIGURES TO SHOW REMOVAL OF THERMAL RELIEF VALVES FOR FUEL POOL COOLING AND CLEAN-UP SYSTEM AND COMPONENT COOLING WATER SYSTEM									
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97-053	REVISE USAR TO REFLECT A MODIFICATION TO HABITABILITY SYSTEM									
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97-054	REVISE FIGURES TO REFLECT REMOVAL OF THE CONTROL BUILDING AND CLASS 1E EQUIPMENT AIR CONDITIONING UNIT CONDENSER RELIEF VALVES									
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97-055	REVISE FIGURE TO REFLECT REPLACEMENT OF ELBOW IN ESSENTIAL SERVICE WATER A STRAINER BACKWASH PIPING									
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97-056	REVISE FIGURE TO REFLECT REPLACEMENT CHART RECORDERS ON THE MAIN CONTROL BOARD									
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97-057	REVISE USAR TO LARGER FIXED COMBUSTIBLE LOAD IN ROOM 1407 OF FIRE AREA A-3										
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97-058	REVISE FIGURE DUE TO PREVIOUS DRAFTING ERROR										
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97-059	REVISE FIGURE TO REFLECT ADDITION OF 3/4" MANUAL ISOLATION VALVE TO TEST LINE EM119BCD-3/4"										
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97-060	REVISE USAR TO DISCUSS CABLE SEPARATION CRITERIA FOR TRANSIENT CABLES										
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97-061	REVISE FIGURE TO REFLECT INSTALLATION OF FOUR RELIEF VALVES ON THE RM 172 PROCESS SAMPLE PANEL										
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97-062	REVISE FIGURES TO REFLECT MODIFICATIONS MADE TO THE CIRCULATING WATER SYSTEM										
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97-063	REVISE USAR TO SHOW THE INSTALLATION OF NEW POTABLE WATER SYSTEM										
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97-064	REVISE USAR TO REFLECT MODIFICATIONS DUE TO REPLACEMENT OF POSITIVE DISCPLACEMENT PUMP WITH NORMAL CHARGING PUMP										
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97-065	REVISE USAR TO REFLECT INSTALLATION OF A NEW SPONGE BALL STRAINER IN THE CONDENSER OUTLET STAND PIPES AND ASSOCIATED MODIFICATIONS										
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97-066	REVISE USAR TO REFLECT THE INCREASE IN THE LOW PRESSURIZER PRESSURE REACTOR TRIP SETPOINT
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97-067	REVISE USAR TO REFLECT MODIFICATIONS TO THE CIRCULATING WATER DISCHARGE STRUCTURE AND REMOVAL OF THE ACID FEED SYSTEM
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97-068	REVISE USAR TO REFLECT MODIFICATION TO TELEPHONE SYSTEM
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97-069	REVISE USAR TO REFLECT TEST INSTRUMENTATION INSTALLED ON NON NUCLEAR SAFETY RELATED PORTIONS OF MAIN TURBINE, CONDENSATE, FEEDWATER, FEEDWATER HEATER EXTRACTION-DRAINS AND VENTS AND CIRCULATING WATER SYSTEMS
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97-070	REVISE USAR TO REFLECT CHANGE OF PIPING INSULATION FROM FIBERGLASS TO ARMAFLEX AND THE ADDITION OF FIRE LOAD IN THE AFFECTED FIRE ZONES
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97-071	REVISE USAR TO REFLECT THE CHANGE OF MAIN CONTROL BOARD ANNUNCIATOR 56B "REACTOR COOLANT SYSTEM <50 SUBCOOL" FROM 9 DEGREES TO 5 DEGREES SUBCOOLED
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97-072	REVISE USAR TO REFLECT THE CHANGE OF TERMINOLOGY FROM "TURN-BUCKLES" TO "TELE RODS" FOR THE CONTROL ROD DRIVE MECHANISM SEISMIC SUPPORT PLATFORM
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97-073	REVISE USAR TO PROVIDE ADDITIONAL INFORMATION FOR SITE DISTRIBUTION FOR POTABLE WATER SYSTEM TO BUILDINGS OUTSIDE THE POWER BLOCK
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Figure: 9.2-5A	Sheet: 1
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97-074 **REVISE USAR TO REFLECT MODIFICATIONS IN SUPPORT OF THERMAL EXPANSION MONITORING PROGRAM**

Figure: 5.1-1 Sheet: 1

97-075 **REVISE USAR TO REFLECT CHANGE OUT OF CONTROL AND VALVE SYSTEM CONTROL SYSTEM POSITIVE DISPLACEMENT PUMP TO NORMAL CENTRIFUGAL PUMP AND ASSOCIATED MODS.**

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Figure: 8.3-1	Sheet: 1	Figure: 8.2-4	Sheet: 1	Figure: 3.6-1	Sheet: 28	Figure: 3.6-1	Sheet: 1
Figure: 9.3-8	Sheet: 3	Figure: 9.3-5	Sheet: 12	Figure: 9.3-5	Sheet: 8	Figure: 9.2-18	Sheet: 1
Figure: 9.2-15	Sheet: 3	Figure: 5.1-1	Sheet: 2	Figure: 3.6-1	Sheet: ?		

97-079 **REVISES TABLE TO REFLECT PRESSURE DROP FOR ESSENTIAL SERVICE WATER SELF CLEANING STRAINERS**

Table: 9.2-5 Sheet: 1

97-060 **REVISES USAR DESCRIPTION OF ALARM CONTROL UNIT, PANELS/FIRE PROTECTION CONTROL PANEL AND TO INCLUDE INFORMATION ON SMOKE DETECTORS.**

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97-082 **REVISES CHAPTER 13.1 DELETE THE POSITION OF ASSISTANT TO THE CHIEF OPERATING OFFICER AND THE ASSOCIATED RESUME**

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97-083 **REVISES USAR TO INCORPORATE EDITORIAL CHANGES, TYPOGRAPHICAL CHANGES AND MINOR EDITORIAL CHANGES RESULTING FROM THE AUXILIARY FEEDWATER SELF ASSESSMENT**

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