PETER E. KATZ Plant General Manager Calvert Cliffs Nuclear Power Plant

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Baltimore Gas and Electric Company Calvert Cliffs Nuclear Power Plant 1650 Calvert Cliffs Parkway Lusby, Maryland 20657 410 495-4101

A Member of the Constellation Energy Group



February 14, 2000

U. S. Nuclear Regulatory Commission Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT:

Calvert Cliffs Nuclear Power Plant Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318 Report of Changes, Tests, and Experiments - 10 CFR 50.59

In accordance with 10 CFR 50.59(b)(2), Baltimore Gas and Electric Company hereby submits a report containing brief descriptions of changes, tests, and experiments approved under the provisions of 10 CFR 50.59.

Attachment (1) of this report includes 50.59 evaluations recorded approved between December 1, 1998 and January 31, 2000. Items in the report are sorted by 50.59 identification number.

Should you have questions regarding this matter, we will be pleased to discuss them with you.

Very truly yours,

Peter E. Kat

CHC/JMO/dlm

Attachment: (1)

Calvert Cliffs Nuclear Power Plant Report of Changes, Tests, and Experiments [10 CFR 50.59(b)(2)]

cc: R. S. Fleishman, Esquire J. E. Silberg, Esquire Director, Project Directorate I-1, NRC A. W. Dromerick, NRC H. J. Miller, NRC Resident Inspector, NRC R. I. McLean, DNR J. H. Walter, PSC

ATTACHMENT (1)

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CALVERT CLIFFS NUCLEAR POWER PLANT

REPORT OF CHANGES, TESTS, AND EXPERIMENTS

[10 CFR 50.59(b)(2)]

02/09/2000 Date :

SAFETY EVALUATIONS: 12/1/98-1/31/00

Document Id SE00250 Subject	ALLOW THE TEMPORARY	Doc Type 50.59 REMOVAL OF CONTROL R	Rev Status 64 COM HVAC SYSTEM DAMP	Revision 0001 ERS.	Date Issued 12/16/1998	Create Date 12/14/1998	Modified Date 04/23/1999	
Text	SUMMARY:							
	REMOVED FROM THE DU ROCH/CABLE SPREADING FIRE PROTECTION SYS ESTABLISHED IN ACCOU FOR EQUIPMENT OUT-OU ROCM/CABLE SPREADING HOUSES THE DAMPERS J PERFORMED ON THE DAM TO ESTABLISH THE IN VENTILATION SYSTEM.	344, 5348 AND 5349 AR TT SYSTEM TO BE REPAI 5 ROOM COOLING AND VE FEM. FIRE WATCHES IN NDANCE WITH THE TECHN NDANCE WITH THE TECHN FSERVICE. TO MAINTA 5 ROOM VENTILATION SY 4ILL BE SEALED TO ALL MD AGAIN TO REINSTAL 4PER A "MARE-UP" PIEC LEGRITY OF THE CONTRO WITH THE SYSTEM INT BE AVAILABLE. THIS A JESTION.	RED. IT IS PART OF ' NTILATION SYSTEM AND THE CABLE SPREADING ICAL REQUIRMENTS AC UIN THE INTEGRITY OF ' STEM, THE EQUIPMENT I OW THE DUCT WORK TO I L THEM. WHILE MAINT E WILL BE INSTALLED L ROOM/CABLE SPREADI L ROOM/CABLE SPREADI	THE CONTROL SUPPORTS THE ROOM WILL BE TION STATEMENTS THE CONTROL ROOM THAT BE OPENED TO EANNCE IS IN THE DUCT NG ROOM REQUIRED COOLING				

Associations

Documen	nt Id	Do	c Type	Revision To	Assoc	: Status	
MD-1-100		NP	IP	0600	c		
Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00258 Subject	50.59 SAFETY EVALUATION TPSS MODIFICATION	64	0001	03/31/1999	01/21/1999	09/07/1999	

Text

SUMMARY:

THE ACTIVITIES RELOCATE THE SAMPLE CONNECTION POINT FOR THE CONDENSATE HEADER UPSTREAM OF THE DEMINERALIZERS. THAT SAMPLE POINT WILL NOW TERMINATE IN THE CDSS VICE THE TPSS. FURTHER, THE DISSOLVED OXYGEN ANALYZERS 1 & 2-AE-6440-1 IN THE TURBINE PLANT SAMPLE SYSTEM (TPSS) 1(2) T21 WILL BE MOVED TO PANELS 1 & 2C57A IN THE CONDENSATE DEMINERALIZER SAMPLING SYSTEM (CDSS). THE NEW SAMPLE LINE ROUTING WILL BE SIGNIFICANTLY SHORTER THAN THE EXISTING SAMPLE LINE RESULTING IN A REDUCED SAMPLE TRANSIT TIME.

THIS ESP ALSO INSTALLS NEW HYDRAZINE ANALYZERS 142-AE-6417 IN PANELS 142721. THE HYDRAZINE ANALYZERS WILL BE ADDED TO THE EXISTING STEAM GENERATOR FEED PUMP DISCHARGE HEADER SAMPLE LINES INSIDE PANEL 142721 AND WILL BE USED TO MONITOR HYDRAZINE IN THE FEEDWATER.

ANOTHER ACTIVITY OF THE PROPOSED ESP WILL INSTALL A NEW MANIFOLD TO ALLOW HOTWELL SAMPLES TO BE ANALYZED FOR SODIUM BY CONNECTING THE CONDENSATE HOTWELL SAMPLE LINES (6 LINES PER UNIT) TO THE EXISTING SODIUM ANALYZERS IN PANELS 162721A. THESE MONITORS WILL BE USED TO CHECK FOR SODIUM CONTENT IN THE CONDENSATE SYSTEM WHICH IS INDICATIVE OF CONDENSER TUBE FAILURE.

THIS ESP WILL INSTALL CROSS CONNECTS WITH ISOLATION VALVES BETWEEN THE 11 6 12 AND 21 6 22 MAIN STEAM HEADER SAMPLE LINES AND ADD ROOT VALVES TO EACH RESPECTIVE SAMPLE POINT. THIS WILL PROVIDE THE CAPABILITY TO SAMPLE THE 12 6 22 MAIN STEAM HEADERS WHILE MAINTAINING THE REDUCED HEAT LOAD ON THE ISOTHERMAL BATH SAMPLE COOLERS.

THE PROPOSED ESP ALSO CONNECTS THE HOTWELL SAMPLE LINES IN 1 (2) T21 TO THE SODIUM ANALYZER SAMPLE LINE WHICH GOES TO 1 (2) T21A. THE SAMPLE ISOLATION STOP VALVES IN 1(2) T21 ARE CLOSED AND THE CONDENSATE PUMP DISCHARGE HEADER PH ANALYZERS IN PANELS 142T21 ARE ABANDONED TO SUPPORT SODIUM SAMPLING OF THE HOTWELL SAMPLES.

NONE OF THE SSCS AFFECTED BY THE PROPOSED ESP PERFORM ANY SAFETY RELATED NONE OF THE SSCS AFFECTED BY THE PROPOSED ESP PERFORM ANY SAFETY RELATED FUNCTIONS. ALL AFFECTED SSCS ARE CLASSIFIED AS NON-SAFETY RELATED BY THE CCNPP Q-LIST. THE NECESSARY CHANGES TO THE UFSAR ARE ATTACHED. AS DISCUSSED ABOVE, THE PROBABILITY OF OCCURRENCE OF AN ACCIDENT OR MALFUNCTION OF EQUIPMENT IMPORTANT TO SAFETY PREVIOUSLY EVALUATED IN THE SAR IS NOT INCREASED. THE CONSEQUENCES OF AN ACCIDENT OR MALFUNCTION OF EQUIPMENT INCREASED. THE CONSEQUENCES OF AN ACCIDENT OR MALFUNCTION OF EQUIPMENT INCREASED. THE CONSEQUENCES OF AN ACCIDENT OR MALFUNCTION OF EQUIPMENT IMPORTANT TO SAFETY EVALUATED PREVIOUSLY IN THE SAR ARE ALSO NOT INCREASED. THIS ACTIVITY DOES NOT INCREASE THE POSSIBILITY OF A MALFUNCTION OR AN ACCIDENT OF A DIFFERENT TYPE THAN PREVIOUSLY IN THE

Page 1

SAFETY EVALUATIONS: 12/1/98-1/31/00

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SAR. THERE ARE NO OFFSITE DOSE CONSEQUENCES. THE MARGIN OF SAFETY, AS DEFINED IN THE TECHNICAL SPECIFICATIONS, IS NOT AFFECTED. THEREFORE, THERE ARE NO UNREVIEWED SAFETY QUESTIONS ASSOCIATED WITH THE ACTIVITIES DEFINED IN THIS SAFETY EVALUATION.

Associations

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	Document Id ES199500952-000		Doc Type ESP		λεεος C	: Status	
Document Id SE00292 Subject	Doc Type 50.59 Main Steam Safety Valve testing at power	Rev Status 64	Revision 0000	Date Issued 12/01/1998	Create Date 05/14/1998	Modified Date 02/17/1999	
Text	SUMMARY: This activity involves a chnage to the M Provide for performing the testing of the Rather than only mode 3.	SSV TEST PROCEDURE I 2 VALVE LIFT SETTING	N ORDER TO WHILE IN MODE 1				
	THE CHANGE DOES NOT INVOLVE A USQ SINCE / WHILE IT IS BEING TESTED. ALSO, THE T / WHEN ANY VALVE BECOMES INOPERABLE BY LOWN LIMIT PRIOR TO THE TEST.	S ACTION STATEMENT	WILL BE MET				
Association	-	Do	- Tume	Devision Mo	hee oo	Status	

			P	0000	с		
RETIRE-IN-PLACE OUTAGE	Doc Type 50.59 AIR DRYER/FILTER	Rev Status 64	Revision	Date Issued 12/02/1998	Create Date 09/23/1998	Modified Date 02/17/1999	
SUMMARY:							
THE OUTAGE AIR DRYER , RELATED WORK. THE SY IS NOT USED DURING OUT ACTIVITY DOES NOT INCI OF ANY ACCIDENT OR MAI	FILTER SYSTEM WAS TEM WAS NEVER COMP TAGES, TO NO SIGNIF WASE THE PROBABILI FUNCTION OF EQUIPM	S ONLY DESIGNED TO FA PLETED PER ITS ORIGIN FICANT ADVERSE AFFECT ITY OF OCCURRENCE OR MENT IMPORTANT TO SAFI	CILITATE OUTAGE AL DESIGN AND . THIS THE CONSEQUENCES ETY. THE			• •	
nt Id				Revision To		Status	
	Doc Type 50.59	Rev Status 64	Revision 0000	Date Issued 12/15/1998	Create Date 11/09/1998	Modified Date 04/25/1999	
	SUMMARY: THE PROPOSED ACTIVITY THE OUTAGE AIR DRYEM / RELATED WORK. THE SYS IS NOT USED DURING OUT ACTIVITY DOES NOT INCR OF ANY ACCIDENT OR MAI UFSAR WILL BE REVISED ASSOCIATED FIFING.	50.59 RETIRE-IN-PLACE OUTAGE AIR DRYER/FILTER SUMMARY: THE PROPOSED ACTIVITY WILL ABANDON THE O THE OUTAGE AIR DRYER / FILTER SYSTEM WA RELATED WORK. THE SYSTEM WAS NEVER COM IS NOT USED DURING OUTAGES, TO NO SIGNI ACTIVITY DOES NOT INCREASE THE PROBABIL OF ANY ACCIDENT OR MALFUNCTION OF EQUIP UTSAR WILL BE REVISED TO DELETE REFERENC ASSOCIATED PIPING.	50.59 64 RETIRE-IN-PLACE OUTAGE AIR DRYER/FILTER SUMMARY: THE PROPOSED ACTIVITY WILL ABANDON THE OUTAGE AIR DRYER / FI THE OUTAGE AIR DRYER / FILTER SYSTEM WAS ONLY DESIGNED TO FA RELATED WORK. THE SYSTEM WAS NEVER COMPLETED PER ITS ORIGIN IS NOT USED DURING OUTAGES, TO NO SIGNIFICANT ADVERSE AFFECT ACTIVITY DOES NOT INCREASE THE PROBABILITY OF OCCURENCE OR OF ANY ACCIDENT OR MALFUNCTION OF EQUIPMENT IMPORTANT TO SAF UTSAR WILL BE REVISED TO DELETE REFERENCE TO THE OUTAGE AIR ASSOCIATED PIPING. DOC TYPE Rev Status	50.59 64 RETIRE-IN-PLACE OUTAGE AIR DRYER/FILTER SUMMARY: THE PROPOSED ACTIVITY WILL ABANDON THE OUTAGE AIR DRYER / FILTER IN PLACE. THE OUTAGE AIR DRYER / FILTER SYSTEM WAS ONLY DESIGNED TO FACILITATE OUTAGE RELATED WORK. THE SYSTEM WAS NEVER COMPLETED PER ITS ORIGINAL DESIGN AND IS NOT USED DURING OUTAGES, TO NO SIGNIFICANT ADVERSE AFFECT. THIS ACTIVITY DOES NOT INCREASE THE PROBABILITY OF OCCURRENCE OR THE CONSEQUENCES OF ANY ACCIDENT OR MALFUNCTION OF EQUIPMENT IMPORTANT TO SAFETY. THE UTSAR WILL BE REVISED TO DELETE REFERENCE TO THE OUTAGE AIR DRYER AND ASSOCIATED PIPING. Doc Type ESP Doc Type Rev Status Revision 50.59 64 0000	50.59 64 12/02/1998 RETIRE-IN-PLACE OUTAGE AIR DRYER/FILTER SUMMARY: Image: Complete C	50.59 64 12/02/1998 09/23/1998 RETIRE-IN-PLACE OUTAGE AIR DRYER/FILTER SUMMARY: THE PROPOSED ACTIVITY WILL ABANDON THE OUTAGE AIR DRYER / FILTER IN PLACE. THE OUTAGE AIR DRYER / FILTER SYSTEM WAS ONLY DESIGNED TO FACILITATE OUTAGE RELATED WORK. THE SYSTEM WAS ONLY DESIGNED TO FACILITATE OUTAGE RELATED WORK. THE SYSTEM WAS NEVER COMPLETED PER ITS ORIGINAL DESIGN AND IS NOT UNCERASE, TO NO SIGNIFICANT ADVERSE AFFECT. THIS ACTIVITY DOES NOT INCREASE THE PROBABILITY OF OCCURRENCE OR THE CONSEQUENCES OF ANY ACCIDENT ON MALFUNCTION OF EQUIPMENT INFORMAT TO SAFET. THIS UTSAR WILL BE REVISED TO DELETE REFERENCE TO THE OUTAGE AIR DRYER AND ASSOCIATED PIPING. At Id Doc Type Revision To Associanted Piping. Doc Type Boo 0000 Create Date 50.59 64	50.59 64 12/02/1998 09/23/1998 02/17/1999 RETIRE-IN-PLACE OUTAGE AIR DRYER/FILTER SUMMARY: III (10/21/10/1000) 00/23/1998 02/17/1999 THE PROPOSED ACTIVITY WILL ABANDON THE OUTAGE AIR DRYER / FILTER IN PLACE. THE OUTAGE AIR DRYER / FILTER WAS ONLY DESIGNED TO FACILITATE OUTAGE 01/20/1998 02/17/1999 THE OUTAGE AIR DRYER / FILTER WAS ONLY DESIGNED TO FACILITATE OUTAGE FREATED WORK. THE SYSTEM WAS NEVER COMPLETED FER ITS OHIGINAL DESIGN AND IS NOT USED DURING OUTAGES. TO NO SIGNIFICANT ADVIAGE SAIRE DRIES AND ACTIVITY DOES NOT INCREASE THE PROBABILITY OF OCCURRENCE OF THE CONSEQUENCES OF ANY ACCIDENT OF NOI ACCIDENT OF DURING. Assoc Status ASSOCIATED PIPING. Doc Type Revision To Assoc Status 196-000 ESP 0000 C Doc Type Revision Data Issued Create Date Modified Date 50.59 64 0000 12/15/1998 11/09/1998 04/25/1999

Text SUMMARY:

THE EXISTING NSR EFFLUENT SAMPLERS FOR COLLECTION OF MAIN PLANT VENT PARTICULATE, IODINE, AND TRITIUM SAMPLES ARE TO BE REPLACED WITH REDUNDANT

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SAFETY EVALUATIONS: 12/1/98-1/31/00

TRAINS OF SAMPLERS THAT ALLOW FOR BETTER FLOW CONTROL, FLOW ALARMS, AND AUTOMATIC TRANSFER OF FUNCTION TO A REDUNDANT TRAIN UPON LOSS OF THE SELECTED TRAIN. CONTINUOUS SAMPLING OF MAIN PLANT VENT EFFLUENT IS ACCOMPLISHED TO COMPLY WITH THE ODCH REVISION 3 SECTIONS 3.3.3.9 AND 4. 11. 2. 1. THERE ARE NO REQUIREMENTS FOR THIS MONITORING FUNCTION IN THE TECH SPECS, NOR DOES THIS EQUIPMENT SATISFY ANY RG 1.97 OR SOER 93-01 REQUIREMENTS. THE REPLACEMENT OF THIS EQUIPMENT WILL HAVE NO EFFECT UPON THE TECH SPECS, AND THE SAR WILL BE CHANCED VIA UCR TO REFLECT THE NEW UNIT ID NUMBERS AND THE PRESENCE OF REDUNDANT TRAINS. IN CONCLUSION, THIS ACTIVITY IS NOT A USO.

Associations

Date :

Document Id	Doc Type	Revision To	Assoc Status
91-0251-008	ESP	0000	c
91-0251-009	ESP	0000	c

Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00334		50.59	64		08/08/1999	11/17/1998	12/15/1999
Subject	CR HVAC MODIFICATION						

Text SUMMARY:

THE AIR SUPPLY TO THE BATTER RCM VENTILATION SYSTEM IS NORMALLY FROM THE OUTSIDE IN THE SUMMER MODE OR FROM THE MAIN PLANT EXHAUST EQUIPMENT ROCM (MPEER) IN THE WINTER MODE. DURING WINTER MODE, THE BATTERY ROCM SUPPLY INTAKE IS FROM THE MAIN PLANT EXHAUST EQUIPMENT ROCM. ALTHOUGH THE WINTER TEMPERATURE IN MAIN PLANT EXHAUST EQUIPMENT ROCM. ALTHOUGH THE WINTER TEMPERATURE IN MAIN PLANT EXHAUST EQUIPMENT ROCM. ALTHOUGH THE WINTER TEMPERATURE IN MAIN PLANT EXHAUST EQUIPMENT ROCM. ALTHOUGH THE WINTER THE SUPPLY DUCT TO CAUSE A LOW TEMPERATURE ALARM. THEREFORE, THE BATTERY ROCM FAN SUPPLY DUCT IS REROUTED TO THE ACCESS CONTROL AREA WILL MAINTAIN A CONSTANT TEMPERATURE AIR SUPPLY FOR THE BATTERY ROCM YEAR ROUND AND REDUCE THE POTENTIAL FOR HIGH / LOW TEMPERATURE BATTERY ROCM YEAR ROUND AND REDUCE THE POTENTIAL FOR HIGH / LOW TEMPERATURE BATTERY DESIGN CAPACITY IS AVAILABLE. THE NEW ACCESS CONTROL AREA HVAC UNIT HAS BEEN DESIGNED WITH SUFFICIENT CAPACITY TO SUPPLY THE BATTERY ROCM VENTILATION SYSTEM AND DUCTING IS RUN TO THE ACCESS CONTROL AREA WHERE THE BATTERY ROCM VENTILATION SYSTEM SUPPLY FAN IS TAKING A SUCTION ON.

EXHAUST FLOW THROUGH THE MAIN PLANT VENT STACK, LOCATED IN THE MPEER, PASSES BY A RADIATION MONITOR, WHEREAS THE BATTERY ROOM EXHAUST FAN IS NOT EQUIPPED WITH A RADIATION MONITOR. SHOULD THERE BE ANY LEAKAGE INTO THE MAIN PLANT EXHAUST EQUIPMENT ROOM FROM THE VARIOUS DUCTS INSIDE THE ROOM AND SUBSEQUENTLY INTO THE BATTERY ROOM SUPPLY, A POTENTIAL EXISTS FOR UNMONITORED AIRBORNE CONTAMINATION TO BE RELEASED TO THE OUTSIDE ATMOSPHERE THROUGH THE BATTERY ROOM EXHAUST FAN WHICH DISCRARGES TO THE OUTSIDE WITHOUT BEING MONITORED. SEALING OF THE AIR SUPPLY DUCT FROM THE MAPER WILL PREVENT THE POSSIBLE INDUCTION OF AIRBORNE CONTAMINATION INTO THE BATTERY ROOM VENTLAINEN SYSTEM.

THE SAFETY RELATED DUCT CONNECTED TO THE MPEER ROOM WALL AND THE NON SAFETY RELATED DUCT LEADING TO THE ACCESS CONTROL AREA ARE CONNECTED BY A FLEXIBLE CONNECTION TO ENSURE THAT THE SEISMIC MOVEMENT OF THE ACCESS CONTROL AREA DOES NOT AFFECT THE STRUCTURAL INTEGRITY OF THE ACCESS CONTROL AREA DOES NOT AFFECT THE STRUCTURAL INTEGRITY OF THE INTEGRITY OF THE SAFETY RELATED BATTERY ROOM SUPPLY DUCT WILL BE MAINTAINED. NO AIR FROM THE MPEER WILL BE ABLE TO ENTER INTO THE BATTERY ROOM VENTILATION SYSTEM.

SINCE THE PROBABILITY AND CONSEQUENCES OF PREVIOUSLY EVALUATED MALFUNCTIONS AND ACCIDENTS ARE NOT INCREASED BY THIS ACTIVITY, THE PROBABILITY OF NEW MALFUNCTIONS AND ACCIDENTS ARE NOT CREATED BY THIS ACTIVITY, AND THE MARGINS OF SAFETY EXPRESSED IN THE TECHNICAL SPECIFICATIONS ARE NOT REDUCED BY THIS ACTIVITY, THRE IS NO UNREVIEWED SAFETY QUESTION ASSOCIATED WITH THIS ACTIVITY.

Associations

Document Id

Doc Type

Revision To

Assoc Status

Date : 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

E\$199702	144-004	ESI	P	0000	С		
cument Id	Doc Type 50.59	Rev Status	Revision	Date Issued 12/07/1998	Create Date 12/07/1998	Modified Date	-
ubject	CR HVAC MODIFICATION			12/07/1990	12/07/1996	10/22/1999	
ext	SUMMARY:						
	THE CURRENT CONTROL ROOM (CR) HABITABIL THE ORIGINAL DESIGN BASIS UNFILTERED IN HOMEVER, RECENT REST MEASUREMENTS INDIC IS SIGNIFICANTLY HIGHER. DOSE CALCULAT BASIS ACCIDENTS UTILIZING THE MEASURED LEAKAGE FROM THE AUXILIARY BUILDING ROO (CRHVAC) IS A SIGNIFICANT CONTRIBUTOR T CALCULATIONS ALSO INDICATE THAT IN ORDE WITHIN THE GDC 19 LIMITS, FOR THE APPLI OF THE LEAKAGE INTO THE CHVAC SYSTEM SI BUILDING ROOF. A SUBSTANTIAL PORTION O LOCATED IN ROOM \$12. DIRECTLY ABOVE AN	LEAKAGE RATE OF 910 C VITE THAT THE ACTUAL I CONS PERFORMED FOR TH INLEAKAGE RATE DEMONS F INTO THE CONTROL RO D THE CR OPERATOR DOS TO LIMIT THE CONTRO JABLE DESIGN BASIS AC HOULD ORIGINATE FROM THE CRHVAC SYSTEM E D BELOW ROOM 512 ARE	FM INTO THE CR. NLEAKAGE RATE E DESIGN TRATE THAT OM HVAC SYSTEM ES. THESE L ROOM DOSE TO CIDENTS, NONE THE AUXILIARY QUIPMENT IS THE AUXILIARY				
	THEREFORE, IN ORDER TO LIMIT THE CONTROL LIMITS, FOR THE APPLICABLE DESIGN BASIS REDUCTION PLAN WAS GENERATED TO REDUCE COMPONENT OF THIS PLAN IS TO SEAL THE R ACTIVITY REMOVES THE NON SAFETY-RELATED AND HAV UNIT NO. 11 AND SEALS THE ROOF BOUNDARY. A SINGLE ROOF TOP MOUNTED HV ACCESS CONTROL AREA VENTILATION UNITS.	ACCIDENTS, A CONTROL INLEAKAGE TO THE CR. XXX 512 ROOF OPENINGS ACCESS CONTROL AC UN 11TH A SAFETY-RELATED	ROOM INLEARAGE THE MAJOR . THIS IT NO. 14 PRESSURE				
	THE NEW ACCESS CONTROL AREA HVAC UNIT W BUILDING ROOF AT ELEVATION 91'-6", ABOVI NEW HVAC UNIT ONTO THE ROOF WILL BE CONN JIB CRANE. THE UNIT 2 CONTAINMENT JIB (CAN HOIST THE LARGEST SECMENT OF THE NE THE STRUCTURAL INTEGRITY OF THE CRANE.	CORRIDOR 591. HOIS WICTED BY THE UNIT 2 TRANE HAS BEEN ANALYZ	TING OF THE Containment Ed to Ensure It				
	THE NEW HVAC UNIT WILL TRAVEL ALONG THE UNIT 2 SPENT FUEL POOL. THE ROOF OVER ' LOAD DROP ANALYSIS TO DETERMINE THE MAX: DROPPED BEFORE STRUCTURAL DAMAGE TO THE ARE GIVEN TO ENSURE NO DAMAGE OCCURS TO UNIT. THEREFORE, MAINTAINING THE STRUCT THERE IS NO CONSEQUENCE TO THE SPENT FUI THE SPENT FUEL POOL AREA, IT THEN TRAVEL THE ACESS CONTROL AREA. THIS ROOF HAS STRUCTURAL INTEGRITY IS MAINTAINED FOR ' UNIT, ALONG WITH CRIBBING AND HOISTS THU ONTO ITS FOUNDATION.	HIS ÀREA HAS BEEN EV. MUM HEIGHT THE LOAD ROOF WERE TO OCCUR. THIS ROOF WHILE TRAM. URAL INTEGRITY OF TH. L POOL. ONCE THE HV. S ONTO A METAL DECKI BEEN ANALYZED TO ENS' HE ADDED WEIGHT OF T	ALUATED FOR A COULD BE GUIDELINES SPORTING THE E ROOF ENSURES AC UNIT CLEARS NG ROOF, ABOVE URE THE HE NEW HVAC				•
	THE CRHVAC SYSTEM DUCTS IN ROOM 512 ARE PRESSURE, DEPENDING ON THEIR RELATIVE LA RESPECT TO THE FANS. THE POSITIVE PRESS ROOM AND THE NEATIVE PRESSURE DUCTS WI THE DIFFERENTIAL PRESSURE INDUCED LEAKA CONNECTIONS IN THE DUCTING. WITH THE RE FROM ROOM 512 AND THE INSTALLATION OF SJ HATCHES, DAMPERS AND SEALED ROOF OPENING AND OTHER SUPPLEMENTS TO THIS MODIFICATI CRHVAC SYSTEM ENVELOPE. NO AIR FROM THE INTO THE CRHVAC SYSTEM. THEREFORE, DOSI WILL BE SIGNIFICANTLY LOWERED FOR THE CI	CATION (SUCTION OR D) URE DUCTS WILL LEAK J L DRAW AIR FROM THE I E THROUGH THE SEAMS, MOVAL OF ALL OTHER H FFTY-RELATED PRESSUR S ON THE ROOM 512 ROOM ON, ROOM 512 IS NOW J OUTSIDE, ABOVE ROOM S FROM THE DESIGN BA	ISCHARGE) WITH AIR OUT TO THE ROOM DUE TO JOINTS, AND VAC EQUIPMENT E BOUNDARY DF, UNDER THIS PART OF THE 512. CAN ENTER				
	SINCE THE PROBABILITY AND CONSEQUENCES O AND ACCIDENTS ARE NOT INCREASED BY THIS MALFUNCTIONS AND ACCIDENTS ARE NOT CREAT MARGINS OF SAFETY EXPRESSED IN THE TECH BY THIS ACTIVITY, THERE IS NO UNREVIEWED THIS ACTIVITY.	ACTIVITY, THE PROBAB ED BY THIS ACTIVITY, ICAL SPECIFICATIONS A	ILITY OF NEW AND THE ARE NOT REDUCED			, ,	

Date: 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

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Docume ES199702			Do ESI	c Type	Revision To 0000	Assoc c	: Status	
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
E00338		50.59	64	0000	12/06/1998	12/07/1998	02/17/1999	
Subject	GAG OPEN CONDENSAT	E PRECOAT FILTER BYPAS	S VALVE ON UNIT 1.					
Text	SUMMARY:							
	TO BE GAGGED OPEN, THE ACTUATOR IS BR REPAIRED WHILE IT CONDENSATE FLOW IS PRECOAT FILTERS AR THEREFORE, TEMPORA CONSEQUENCES OF A BE STRONGER THAN T PROBABILITY OF IT	WS THE CONDENSATE PREC THE CONNECTING LINKY OKEN AND GAGGING THE V REMAINS IN SERVICE. C UNINTERRUPTED BUT WII E ONLY USED FOR LONG T RILY BYPASSING THEM WI MALFUNCTION OR ACCIDEN HE ACTUATOR FORCE, THE FALLING. THERE ARE NO ATIONS TO EITHER THE C	IGE BETWEEN THE VALVE ALVE OPEN WILL ALLOW LAGGING THE VALVE OPE L BYPASS THE PRECOAT EENM FURITY OF THE CO LL NOT INCREASE THE IT. SINCE THE GAG IS RE WILL BE NO INCREAS SURVEILLANCE TEST P	VANE ARM AND IT TO BE N WILL ENSURE FILTERS. THE TODENSATE; PROBABILITY OR DESIGNED TO SE IN THE ROCEDURES OR				
Associations Document				с Тура	Revision To	Азаос	: Status	
MD-1-100		·	NPI	P	0600	сс		
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
E00339		50.59	64		03/01/1999	02/22/1999	07/26/1999	
Subject	FLOW DEPENDENT SEL	ECTOR SWITCH REMOVAL						
Text	SUMMARY:							
	OPERATIONS WITH LE MANY OF THE CALVER TO "LESS THAN FOUR IMPLEMENTED, HOMEVU OPERATION REMAINED BGLE DOES NOT INTE OPERATING, BECAUS WITH THE ASSOCIATE REACTOR PROTECTIVE	L DESIGN OF CALVERT CL SS THAN FOUR REACTOR C T CLIFFS TECHNICAL SPE PUMP OPERATION". THI ER THE RPS LIMITS FOR IN THE TECHNICAL SPEC ND TO FURSUE POWER OPE E OF THIS, THE FLOW DE D WIRING IS UNNECESSAR SYSTEM CALIBRATION AN	COLANT FUMPS WOULD B CIFICATIONS CONTAINE S DESIGN FEATURE WAS CONFIGURATIONS OTHER IFICATIONS. RATION WITH LESS THAN FENDENT SELECTOR SWI' Y AND WILL BE REMOVES D INDICATION PARTY	2 ALLOWED. D REFERENCES NEVER THAN 4 PUMP I FOUR RCP'S ICHES ALONG D FROM THE (RPSCIPL. BY			-	
	REMOVING THESE UNN OR DEGRADED SWITCH RPSCIP. THEREFORE, TO LESSEN THE PROB	ECESSARY COMPONENTS, L CONTACTS SHALL BE PRE , THE INHERENT NATURE ABILITY OF OCCURRENCE, ENT SELECTOR SWITCH.	ESS BROKEN WIRES, LOO SENT FOR POSSIBLE FA: OF THE PROPOSED MODI	DSE CONNECTIONS, LLURE IN THE FICATION IS				
	AN EDITORIAL CORREC	SELECTOR SWITCH WILL HE UPDATED FINAL SAFET CTION WILL BE MADE TO S B 3.3.1 TO REMOVE A	Y ANALYSIS REPORT. 7 THE CALVERT CLIFFS T	DDITIONALLY, CHNICAL				
	RUNNING WITH THE FI ABANDONED IN PLACE SAFETY ANALYSIS REI THE EXISTENCE OF TH	H ORIGINALLY WAS INTEN LOW DEPENDENT SELECTOR WITH NO FILED INPUTS PORT DOES NOT DISCUSS, HE K3 RELAY CIRCUIT IN MOVED IN ORDER TO PREV	SWITCH POSITION, IS CONNECTED. THE UPDAT EITHER EXPLICITLY OF THE RPSCIP. POWER TO	PRESENTLY TED FINAL IMPLICITLY, THE K3 RELAY				
	THE ABILITY OF OPEN	DISCUSSIONS, THE PROP RATORS TO ASSESS OR CO S THE PROPOSED MODIFIC	NTROL THE NUCLEAR SAL	ETY STATUS OF				

SUMMARY:

Date : 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

RESPONSE OF THE PLANT TO NORMAL EVOLUTIONS, ANTICIPATED OPERATIONAL OCCURRENCES, OR DESIGN BASIS ACCIDENTS. THE POTENTIAL FOR THE RELEASE OF RADIOACTIVE MATERIAL TO THE ENVIRONMENT IS NOT INCREASED BY THE PROPOSED MODIFICATION, NOR DOES THIS ACTIVITY INCREASE THE POTENTIAL FOR A PLANT TRIP.

THEREFORE, THE PROPOSED MODIFICATION DOES NOT CONSTITUTE AN UNREVIEWED S SAFETY QUESTION.

Associations

Document Id			Do	с Туре	Revision To	Assoc	: Status
ES199700702-000)		ES	P	0000	с	
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00340	-	50.59	64	0000	02/22/1999	02/22/1999	07/26/1999
Cubicat							

Subject UFSAR CHANGE FOR FLOOD HEIGHT DUE TO CIRC WATER EXPANSION JOINT RUPTURE

Text

TABLE 9-17A OF THE UFSAR DISCUSSES THE CONSEQUENCES OF A RUPTURE OF A CIRCULATING WATER EXPANSION JOINT IN THE TURBINE BUILDING CONDENSER PIT. IT STATES THAT THE TURBINE BUILDING COULD BE FLOODED TO AN ELEVATION OF 18 FEET WITH NO DAMAGE TO SAFETY RELATED EQUIPMENT. ALSO, TABLE 9-17A STATES THAT FLOOD HEIGHT WOULD REACH ELEVATION 18 FEET IN 28 MINUTES.

RESEARCH INTO THE DESIGN BASIS BEHIND THE TURBINE BUILDING FLOODING INDICATES THAT FLOODING OF THE TURBINE BUILDING WAS ORIGINALLY BASED SOLELY ON THE MAXIMUM METEOROLOGICAL EVENT AND NOT ON THE FLOODING FROM THE RUFURE OF THE CIRCULATING WATER EXPANSION JOINT.

AN ISSUE REPORT WAS WRITTEN TO DOCUMENT A CONCERN REGARDING THE POTENTIAL FLOODING OF THE SERVICE WATER AND AUXILIARY FEEDMATER ROOMS AS A RESULT OF A BREAK IN THE CIRCULATING WATER FIPING AS DETAILED IN UFSAR TABLE 9-17A. THE CONCERN CENTERS AROUND TECHNICAL REQUIREMENTS MANUAL SECTION 15.7.4 "WATERTIGHT DOORS". THIS SECTION STATES, IN PART, THAT THE WATERTIGHT DOORS FOR THESE ROOMS ARE REQUIRED TO BE CLOSED WHEN THE UNIT IS IN MODES 1 THROUGH 4. THESE WATERTIGHT DOORS ARE LOCATED AT THE 12"-6" ELEVATION AND FLOOD LEVEL WOULD REACH THIS FOINT MUCH SOONER THAN 26 MINUTES. UNDER SINGLE UNIT OUTAGE CONDITIONS, MAINTENANCE ACTIVITIES MAY REQUIRE THAT THE WATERTIGHT DOORS OF THE ROOM ASSOCIATED WITH THE OUTAGE UNIT BE LEFT OPEN. SINCE THE OTHER UNIT IS OPERATIONAL, ITS CIRCULATING WATER PUMPS ARE OPERATIONAL. IF THE SNW AND AFW ROOMS WERE TO FLOOD DURING THIS EVENT, IT IS POSSIBLE THAT THE AUXILIARY BUILDING COULD FLOOD THROUCH NON-WATERTIGHT DOORS THAT JOIN THESE ROOMS AND THE AUXILIARY BUILDING. THIS WOULD PLACE OTHER SAFETY-RELATED EQUIPMENT IN THE AUXILIARY BUILDING AT RISK. THEREFORE, THE OPERATION UNIT MAY BE IN JEOPARDY DUE TO THE POTENTIAL FLOODING EFFECTS FROM THE OUTAGE UNITS SNW OR AFW ROOM INTO THE COMMON AUXILIARY BUILDING THRE OUTAGE THAT ORANS

A NEW CALCULATION WAS COMPLETED TO ANALYZE A MORE REALISTIC MODEL OF THE CIRCULATING WATER SYSTEM AND THE RUPTURE OF THE EXPANSION JOINT. A PORTION OF THE FLOW WILL CONTINUE TO FLOW THROUGH THE CONDENSER AND OUT TO THE BAY WHILE THE REPAINING FLOW WILL FLOW OUT THE EXPANSION JOINT, LOCATED AT ELEVATION 2.33 FEET, ONTO THE FLOOR OF THE TURBINE BUILDING. AS THE FLOOD HEIGHT ABOVE THE RUPTURE INCREASES, PRESSURE WILL INCREASE AT THE RUPTURE AND MORE FLOW WILL BE DIVERTED THROUGH THE CONDENSER AND OUT TO THE BAY. THIS CALCULATION CONCLUDED THAT THE FLOOD HEIGHT FROM A BREAK IN THE EXPANSION JOINT LOCATED UPSTREAM OF THE MAIN CONDENSER COULD NOT REACH A HEIGHT OF 18' DUE TO THE HEAD CREATED BY THE FLOOD ELEVATION AND THE LOW HEAD OF THE CIRCULATING WATER PUMP. THE CALCULATION ALSO CONCLUDED THAT IT WOULD TAKE APPROXIMATELY 4'S MINUTES TO REACH THE WATERTIGHT DOORS AT ELEVATION 12'6", ALLOWING SUFFICIENT TIME FOR THE OPERATORS, WHO REQUIRE 3' MINUTES, TO SECURE THE FLOODING.

UFSAR, TABLE 9-17A IS TO BE CLARIFIED TO INDICATE THAT THE FLOOD HEIGHT OF 18 FOOT IS ASSOCIATED WITH THE MAXIMUM METEOROLOGICAL EVENT AND THAT THE CIRCULATING WATER EXPANSION JOINT RUPTURE COULD NOT PRODUCE THIS HIGH A FLOOD ELEVATION. THE WORDING IN THE TECHNICAL REQUIREMENTS MANUAL THAT THE DORS ARE REQUIRED TO BE CLOSED WITH THE UNIT IN MODES 1 - 4 IS CONSISTENT WITH THIS PHILOSOPHY. THIS REQUIREMENT ENSURES THAT THE OPERATING UNITS EQUIPMENT IS PROTECTED AT ALL THES. THE ONLY POTENTIAL *** *

SAFETY EVALUATIONS: 12/1/98-1/31/00

FOR FLOODING THE AUXILIARY BUILDING THROUGH THE SRW PUMP ROOMS IS THE MAXIMUM METEOROLOGICAL DESIGN BASIS FLOOD. IN THE EVENT OF THE THREAT OF A HURICANE, THERE IS AMPLE TIME TO ENSURE THAT THE WATERTIGHT DOORS ARE CLOSED, EVEN DURING PERIODS OF HEAVY MAINTENNNEE.

SINCE THE PROBABILITY AND CONSEQUENCES OF PREVIOUSLY EVALUATED MALFUNCTIONS AND ACCIDENTS ARE NOT INCREASED BY THIS ACTIVITY, THE PROBABILITY OF NEW MALFUNCTIONS AND ACCIDENTS ARE NOT CREATED BY THIS ACTIVITY, AND THE MARGINS OF SAFETY EXPRESSED IN THE TECHNICAL SPECIFICATIONS ARE NOT REDUCED THIS ACTIVITY, THERE IS NO UNREVIEWED SAFETY QUESTION ASSOCIATED WITH THIS ACTIVITY.

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Associations

SE00341

Docume E5199900	·		Do	P Type	Revision To	Assoc C	Status	
Document Id SE00341 Subject	SAFETY EVALUATIO	Doc Type 50.59 N FOR SLUDGE LANCING	Rev Status 64	Revision	Date Issued . 03/11/1999	Create Date 02/23/1999	Modified Date 07/26/1999	
Text	SUMMARY:							
	LANCING OF THE S	NIT 2 MAY BE PERFORMING TEAM GENERATORS DURING ' LOWING PROCESSES:	AN UPPER BUNDLE FLUS THE UPCOMING OUTAGE.	SH AND SLUDGE This activity				
	1. FLUSHING OF MATERIAL TO THE	THE UPPER BUNDLE WITH DI TUBESHEET.	EMINERALIZED WATER TO	WASH LOOSE				
	2. SLUDGE LANCI ON THE TUBESHEET	NG VIA WATER JET TO REMO	OVE MATERIAL WHICH HA	AS ACCUMULATED				
	DEMINERALIZED WA THE FLUSHING PRO DEBRIS FROM THE GENERATOR. THE	LANCING PROCESSES ARE : TER INTO THE STEAM GENEI CESS IS A HIGH FLOW, LO STEAM GENERATOR TUBESHEI LANCING PROCESS IS A LO DEBRIS FROM THE STEAM (ATER PRESSURE.	RATOR TO REMOVE SLUDG W PRESSURE PROCESS WH ET TO THE BOTTOM OF T W FLOW, HIGH PRESSURE	E / DEBRIS. HICH FLUSHES THE STEAM : PROCESS WHICH				
	*PROCESS TRAILER AND CONTROLS REQ A RECIRCULATION SIDE STREAM OF W. THE WATER IS PUM	UMP WATER TO THE STEAM (". THE TRAILER HOUSES I UIED TO PERFORM BOTH THH LOOP IS INSTALLED WITHIN ATER TO BE DIRECTED TO I PED THROUGH FILTERS. ON EAM GENERATOR TO CONTINU	THE BULK OF THE MECHA E FLUSHING AND LANCIN N CONTAINMENT TO ALLO THE PROCESS TRAILER. NCE IT IS FILTERED. I	NICAL EQUIPMENT IG OPERATIONS. IW FOR A PARTIAL IN THE TRAILER, T IS PUMPED				
	IS ANY ADVERSE IN IT HAS BEEN DETE OCCURRENCE, OR TI SAFETY AND AN ACI AN ACCIDENT OR A PREVIOUSLY EVALUE	AND PROCESS EQUIPMENT WI MPACT ON ANY PLANT EQUIN RMINED THAT THERE IS NO HE CONSEQUENCES OF, A MY CIDENT PREVIOUSLY EVALUY MALFUNCTION OF EQUIPMEN ATED IN THE SAR IS NOT (D IN THE BASIS FOR ANY 1	PMENT AS A RESULT OF INCREASE IN THE PROB ALFUNCTION OF EQUIPME ATED IN THE SAR. THE IT OF A DIFFERENT TYP REATED. IN ADDITION	THIS ACTIVITY. ABILITY OF INT IMPORTANT TO POSSIBILITY OF E THAN ANY L. THE MARGIN OF				
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04/09/1999

06/04/1999

09/07/1999

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Subject SAFETY EVALUATION FOR SLUDGE LANCING

SUMMARY:

Text

CALVERT CLIFFS UNIT 2 MAY BE PERFORMING AN UPPER BUNDLE FLUSH AND SLUDGE LANCING OF THE STEAM GENERATORS DURING THE UPCOMING OUTAGE. THIS ACTIVITY INCLUDES THE FOLLOWING PROCESSES:

- 1. FLUSHING OF THE UPPER BUNDLE WITH DEMINERALIZED WATER TO WASH LOOSE MATERIAL TO THE TUBESHEET.
- SLUDGE LANCING VIA WATER JET TO REMOVE MATERIAL WHICH HAS ACCUMULATED ON THE TUBESHEET.

THE PURPOSE OF THIS ACTIVITY IS TO REMOVE UNWANTED SLUDGE DEPOSITS FROM THE STEAM GENERATOR.

THE FLUSHING AND LANCING PROCESSES ARE SIMILAR IN THAT THEY BOTH PUMP DEMINERALIZED WATER INTO THE STEAN GENERATOR TO REMOVE SLUDGE / DEBRIS. THE FLUSHING PROCESS IS A HIGH FLOW, LOW PRESSURE PROCESS WHICH FLUSHES DEBRIS FROM THE STEAM GENERATOR TUBESHEET TO THE BOTTON OF THE STEAM GENERATOR. THE LANCING PROCESS IS A LOW FLOW, HIGH PRESSURE PROCESS WHICH REMOVES ADHERENT DEERIS FROM THE STEAM GENERATOR TUBESHEET BY THE FORCE CREATED BY THE WATER PRESSURE.

BOTH PROCESSES PUMP WATER TO THE STEAM GENERATOR AND RETURN IT TO A "PROCESS TRAILER". THE TRAILER HOUSES THE BULK OF THE MECHANICAL EQUIPMENT AND CONTROLS REQUIRED TO PERFORM BOTH THE FLUSHING AND LANCING OPERATIONS. A RECIRCULATION LOOP IS INSTALLED WITHIN CONTRIMENT TO ALLOW FOR A PARTIAL SIDE STREAM OF WATER TO BE DIRECTED TO THE PROCESS TRAILER. IN THE TRAILER, THE WATER IS PUMPED THROUGH FLUTERS. ONCE IT IS FILTERED, IT IS PUMPED BACK INTO THE STEAM GENERATOR TO CONTINUE THE CLEANING PROCESS.

THESE PROCESSES AND PROCESS EQUIPMENT WERE REVIEWED TO DETERMINE IF THERE IS ANY ADVERSE IMPACT ON ANY PLANT EQUIPMENT AS A RESULT OF THIS ACTIVITY. IT HAS BEEN DETERMINED THAT THERE IS NO INCREASE IN THE PROBABILITY OF OCCURRENCE, OR THE CONSEQUENCES OF, A MALFUNCTION OF EQUIPMENT IMPORTANT TO SAFETY AND AN ACCIDENT PREVIOUSLY EVALUATED IN THE SAR. THE POSSIBILITY OF AN ACCIDENT OR A MALFUNCTION OF EQUIPMENT OF A DIFFERENT TYPE THAN ANY PREVIOUSLY EVALUATED IN THE SAR IS NOT CREATED. IN ADDITION, THE MARGIN OF SAFETY AS DEFINED IN THE BASIS FOR ANY TECHNICAL SPECIFICATION IS NOT REDUCED.

Associations

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Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00343		50.59	64		05/19/1999	02/25/1999	09/07/1999	
Subject	SAR CHANGE TO SECTION	9.8.2.3						

Text SUMMARY:

THE PURPOSE OF THIS ACTIVITY IS TO SUPPORT A CHANGE TO THE SAR TO CORRECT A STATEMENT IN SECTION 9.8.2.3 WHICH DESCRIBES THE VENTILATION SYSTEM OF THE FAIRBANKS MORSE DIESEL GENERATOR ROOMS. IN THIS SECTION, THE STATEMENT IS MADE THAT:

"ALL PENETRATIONS ARE CLOSED OFF BY THE DAMPERS WHEN THE DIESEL IS NOT RUNNING. SUFFICIENT VENTLATION FOR THE AREA SHOULD BE MAINTAINED AS A RESULT OF INFILTRATION THROUGH CLOSED WALL AND CEILING DAMPERS."

THIS STATEMENT IS NOT ACCURATE AND SHOULD BE CHANGED. THERE ARE TIMES WHEN THE VENTILATION SYSTEM IS OPERATED AND THE DISEL IS NOT RUNNING. AND WHENEVER THE VENTILATION SYSTEM IS OPERATED, THE DAMPERS ARE OPEN.

THE SECTION WILL BE REVISED TO DELETE THE SENTENCES STATED ABOVE. NO FURTHER STATEMENT NEEDS TO BE ADDED SINCE THE SECTION WILL CORRECTLY EXPLAIN THAT THE VENTILATION SYSTEM WILL MAINTAIN THE ROOM TEMPERATURE WITHIN THE DESIGN LIMITS OF 60 DEGREES F IN THE WINTER AND 120 DEGREES F IN THE SUMMER, WITH NO OPERATING RESTRICTIONS OF WHETHER THE DIESEL IS

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THIS ACTIVITY DOES NOT INCREASE THE PROBABILITY AND/OR CONSEQUENCES OF AN ACCIDENT OR WALFUNCTION. NOR DOES THIS ACTIVITY CREATE A NEW MALFUNCTION OR ACCIDENT OF A DIFFERENT TYPE THAN ANY PREVIOUSLY EVALUATED IN THE SAR. THIS SAFETY EVALUATION DOES NOT REDUCE THE MARGIN OF SAFETY AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS BASES. THEREFORE, IT MAY BE CONCLUDED THAT THIS ACTIVITY DOES NOT CONSTITUTE AN UNREVIEWED SAFETY QUESTION.

Associations

	Document Id ES199900261-000			Doc Type		Assoc Status	
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
5E00345		50,59	64	0001	04/23/1999	04/13/1999	08/03/1999
Subject	UNIT 2 CYCLE 13 RELOAD	D CORE DESIGN			•4,20,200	04/15/1555	0070371333

Text SUMMARY:

THIS SAFETY EVALUATION CONSIDERED THE OPERATION OF UNIT 2 CYCLE 13. MODIFICATIONS TO THE FUEL ASSEMBLY AND THE RELOAD CORE DESIGN WERE CONSIDERED. THE USE OF A THIRD FULL BATCH OF ERBIUM FOR UNIT 2 AS A BURNABLE ABSORBER WAS CONSIDERED. THE PRE-TRIP STEAM LINE BREAK EVENT, AND SEIZED ROTOR EVENT WERE EVALUATED USING NRC APPROVED DNB CONVOLUTION METHODOLOGY TO PREDICT THE PERCENTAGE OF FUEL FAILURES. THE EVALUATION ASSUMED FRI AND FXIT LIMITS EQUAL TO 1.65 AND RESULTED IN FUEL FAILURES LESS LIMITING THAN THAT PREVIOUSLY REPORTED. THE CHANGES ASSOCIATED WITH FRI AND FXIT LIMITS EQUAL TO 1.65 ARE IMPLEMENTED IN THE UNIT 2 CYCLE 13 COLR AND ARE VERIFIED TO BE APPLICABLE TO UNIT 2 CYCLE 13. THE LOSS OF LOAD EVENT WAS REAMALYZED FOR A DECREASE IN THE RANGE OF TURBINE STOP VALVE CLOSURE TIMES. THE ANALYSIS CONCLUDED THAT THE PEAR RCS AND STEAM GENERATOR PRESSURES AND THE LINEAR HEAT RATE DO NOT EXCEED THE NRC ACCEPTANCE LIMITS. THE EXCESS HEAT REMOVAL EVENT WAS EVALUATED FOR AN INCREASE IN FEEDWATER FLOW AND A DECREASE IN THE RANGE OF TURBINE STOP VALVE CLOSURE TIMES. THE PANALYSIS CONCLUDED THAT THE PEAR RCS AND STEAM GENERATOR PRESSURES AND THE LINEAR HEAT RATE DO NOT EXCEED THE NRC ACCEPTANCE LIMITS. THE EXCESS HEAT REMOVAL EVENT WAS EVALUATED FOR AN INCREASE IN FEEDWATER FLOW AND A DECREASE IN FEEDWATER ENTHALPY. THIS EVALUATION CONCLUDED THAT THE PREVIOUSLY REPORTED RESULTS WERE MORE LIMITING. THE POST-TRIP STEAM LINE BREAK EVENT WAS RE-EVALUATED WITH REGARD TO COOLABILITY FOR AN INCREASE IN THE SAFETY INJECTION SWEEP OUT VOLUME. IT WAS DETENDED THAT THE LATE TIME MELT (CLM) LIMIT DID NOT OCCUR FOLLOWINGE THE CORE COOLABILITY LIMIT. THE RESULTS OF THIS EVALUATION WERE BOUNDED BY THE PREVIOUSLY REPORTED RESULTS FOR THE POST-TRIP STEAM LINE BREAK EVENT. A TOTAL OF 40 CEAS WERE CREDITED FOR REFULLING BORON CONCENTRATION. THE UNIT 2 CYCLE 13 SAFETY ANALYSES ACCOUNTED FOR ALL THE RELADAL CORE DIFFERENCES. REVISION 0001 OF THIS SAFETY EVALUATION CONSIDERED THE IMPACT OF NOT INSTALLING THERE INCORE INSTRUMENTS (ICLS).

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SE00345 Subject	UNIT 2 CYCLE 13 RELOA	50.59 AD CORE DESIGN	64	0000	03/31/1999	03/19/1999	07/26/1999

Text SUMMARY:

THIS SAFETY EVALUATION CONSIDERED THE OPERATION OF UNIT 2 CYCLE 13. MODIFICATIONS TO THE FUEL ASSEMBLY AND THE RELOAD CORE DESIGN WERE CONSIDERED. THE USE OF A THIRD FULL BATCH OF ERBIUM FOR UNIT 2 AS A BURNABLE ABSORBER WAS CONSIDERED. THE PRE-TRIP STEAM LINE BREAK EVENT, AND SEIZED ROTOR EVENT WERE EVALUATED USING NRC APPROVED DNB CONVOLUTION

Date: 02/09/2000

METHODOLOGY TO PREDICT THE PERCENTAGE OF FUEL FAILURES. THE EVALUATION ASSUMED FRT AND FXYT LIMITS EQUIAL TO 1.65 AND RESULTED IN FUEL FAILURES LESS LIMITING THAN THAT PREVIOUSLY REPORTED. THE CHANGES ASSOCIATED WITH FRT AND FXYT LIMITS EQUAL TO 1.65 ARE IMPLEMENTED IN THE UNIT 2 CYCLE 13 COLR AND ARE VERIFIED TO BE APPLICABLE TO UNIT 2 CYCLE 13. THE LOSS OF LOAD EVENT MAS REAMALYZED FOR A DECREASE IN THE TURBINE STOP VALVE CLOSURE THE. THE EVALUATION CONCLUDED THAT THE FREVIOUSLY REPORTED RESULTS FOR THIS EVENT WERE MORE LIMITING. THE EXCESS HEAT REMOVAL EVENT WAS EVALUATED FOR AN INCREASE IN FEEDWATER FLOW AND A DECREASE IN FEEDWATER ENTHALPY. THIS EVALUATION CONCLUDED THAT THE PREVIOUSLY REPORTED RESULTS WERE MORE LIMITING. THE POST-TRIP STEAM LINE BREAK EVENT WAS REEVALUATED WITH REGARD TO COLABLITY FOR AN INCREASE IN THE SAFFTY INJECTION SWEEP OUT VOLUME. IT WAS DETERMINED THAT FUEL FAILURE DUE TO VIOLATIONOF THE DNC SAFDL OR DUE TO EXCEEDING THE CENTER LINE MELT (CLM) LIMIT DID NOT OCCUR FOLLOWING THE RETURN TO FOWER FOR THE FULL POMER CASES, THUS AVENTING THE MEED TO INVOKE THE CORE COOLABLITY FILL FOR THE SAFFTY INJECTION SWEEP OUTVOLUME. THE WAS DETERMINED THAT FUEL FAILURE DUE TO VIOLATIONOF THE DNC SAFDL OR DUE TO EXCEEDING THE CENTER LINE MELT (CLM) LIMIT DID NOT OCCUR FOLLOWING THE RETURN TO FOWER FOR THE FULL POMER CASES, THUS AVENTING THE MEED TO INVOKE THE CORE COOLABLITY LIMIT. THE RESULTS OF THIS EVALUATION WERE DOUNDED BY THE PREVIOUSLY REPORTED RESULTS FOR THE SOFT-TRY STEAM LINE BREAK EVENT. A TOTAL OF 46 CEAS WERE CREDITED FOR REFUELING BORON CONCENTRATION. THE UNIT 2 CYCLE 13 SAFETY ANALYSES ACCOUNTED FOR ALL THE RELOAD CORE DIFFERENCES. THE RESULTS OF THAT OPERATION OF UNIT 2 CYCLE 13 DOES NOT INVOLVE AN UNREVENDED ANALYSES OF RECORD CONSERVATIVELY APPLY TO UNIT 2 CYCLE 13. IT IS CONCLUDED THAT OPERATION OF UNIT 2 CYCLE 13 DOES NOT INVOLVE AND YEAPENTED RESULTS OF THAT OPERATION OF UNIT 2 CYCLE 13 DOES NOT INVOLVE AND YEAPENTED FOR THAT OPERATION OF UNIT 2 CYCLE 13 DOES NOT INVOLVE AND W

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Text

SUMMARY :

THE PROPOSED TEMPORARY ALTERATION ALLOWS FOR USE OF THE BRIDGE, TROLLEY AND AUXILIARY HOIST WITHOUT THE MAIN HOIST BOX INSTALLED IN THE MAIN HOIST ASSEMBLY.

ONLY THE MAIN HOIST INTERLOCKS ASSOCIATED WITH PROTECTING THE FUEL WILL BE BYPASSED BY THIS TEMPORARY ALTERATION. SINCE THE MAIN HOIST WILL BE REMOVED, THE DESIGN INTERT OF THE SE INTERLOCKS TO PROTECT THE FUEL IS MET. ALL OTHER REFUELING MACHINE INTERLOCKS WILL REMAIN FUNCTIONAL.

BASED ON THE ABOVE DISCUSSIONS, THE PROPOSED TEMPORARY ALTERATION DOES NOT AFFECT THE ABILITY OF OPERATORS TO ASSESS OR CONTROL THE NUCLEAR SAFETY STATUS OF THE PLANT, NOR DOES THE PROPOSED TEMPORARY ALTERATION CHANGE THE NUCLEAR SAFETY RESPONSE OF THE PLANT TO NORMAL EVALUATIONS, ANTI-CIPATED OPERATIONAL OCCURRENCES, OR DESIGN BASIS ACCIDENTS. THE POTENTIAL FOR THE RELEASE OF RADIOACTIVE MATERIAL TO THE ENVIRONMENT IS NOT IN-CREASED BY THE PROPOSED TEMPORARY MODIFICATION, NOR DOES THIS ACTIVITY IN CREASED HE POTOPOSED TEMPORARY MODIFICATION, NOR DOES THIS ACTIVITY IN BASED ON THE ABOVE DISCUSSIONS, THE PROPOSED TEMPORARY ALTERATION DOES DOES NOT CONSTITUTE AN UNREVIEWED SAFETY QUESTION.

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'ext	SUMMARY:							
•	CONTINGENCY FOR FAI SWITCH WILL BE USED ON THE SPENT FUEL P WILL BE IN PLACE UN MANUAL TOGGLE SWITCI POSITION THE OPERAT SWITCH WILL BE CONT OPERATING INSTRUCTI SWITCH IS OPERATED (EQUIPMENT IS IN THE EQUIPMENT IS IN THE OPERATOR TO VERIFY ' VERTICAL POSITION.	LED PROXIMITY SWITCH TO PERFORM THE FUNC TO PERFORM THE FUNC SOL UPENDER. IN THI IL THE OPERATOR COM. 4. THE MANUAL TOGGL PROFESSIT IN. TH NULL BE CHANGED T DNLY AFTER TWO INDEP FROPER POSITON. ON THY AFTER TWO INDEP FROPER POSITON. TH THY TYRAULIC PRESSU SINCE THE OPERATOR 1 ORBABILITY OF A FUEL	LTERATION WHICH WILL F 2-LS-BVH. A MANUAL T TION OF PROXIMITS WIT S MANNER, THE ASSOCIAT SCIOUSLY OVERRIDES IT E SWITCH WILL MAINTAIN O PERATION OF THE MAN OPERATION OF THE MAN OPERATING INSTRUCTION O ENSURE THAT THE MANU ENDENT MUTHODS DETERMI E METHOD IS TO VISUALL E SECOND METHOD REQUIR RE CHANGES ARE CONSIST WILL ENSURE THAT THE I HANDLING ACCIDENT IS ITUTE AN UNREVIEWED SA	OGGLE CH 2-LS-BVH CH 2-LS-BVH ED INTERLOCK WITH THE THE UAL TOGGLE . THE AL TOGGLE NE THE ENT WITH FULL NTERLOCK NOT AFFECTED.				
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	50.59		64	0000	04/03/1999	04/03/1999	07/26/1999	
Subject	ALLOW VALVE 2-CV-5460 TO BE G	AGGED OPEN WHILE	DEFUELED.					
Text	SUMMARY:							
	DE MATERIALIZED WATER IS USED THE SWAC AIR THAT CONTROLS VA MAINTENANCE. TO PREVENT VALV AIR OUTAGE, THE CONTROL VALVE THE DEFUELED PERIOD, GAGGING NOT AFFECT NUCLEAR SAFETY. T	LIVE 2-CV-5460 WI TE 2-CV-5460 FROM WILL BE GAGGED OPEN OF THIS CON	LL BE OUT OF SE FAILING CLOSE IN THE OPEN POS TAINMENT ISOLAT	RVICE FOR D" DURING THE ITION DURING				
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SE00350	Doc T		Rev Status	Revision	Date Issued	Create Date	Modified Date	
Subject	50.59		64	0000	04/04/1999	04/05/1999	07/26/1999	
-	REVISE FSAR SECTION 9.7.2.7 T	O ALLOW THE NEW 1	FUEL ELEVATOR TO	O RAISE NEW FUEL				
Text	SUMMARY:							
	THE PURPOSE OF THIS ACTIVITY DESCRIPTION OF THE NEW FUEL E TO RAISE OR LOWER THE NEW FUE THE SPENT FUEL POOL (SPF). T SAFETY QUESTION.	LEVATOR (NFE).	THIS WILL ALLOW	THE NEE				
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Document FH-340 Document Id	Doc T		FH Rev Status	c Type Revision			Status Modified Date	
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Document FH-340 Document Id SE00352	Doc T		FH Rev Status		0601 Date Issued	C	Modified Date	
Document FH-340 Document Id SE00352 Subject	Doc T 50.59 LEAVE EDDY CURRENT PROBE IN SO SUMMARY: A LIGHTWEIGHT (2.2 OZ.) EDDY O DURING AN INSPECTION AND LEFT LINE NUMBER 32 IN STEAM GENERY STEEL, SOME OTHER MINOR METALI CHEMICAL COMPONENTS HAVE BEEN IN SIGN AND ALSO THE RATE OI IN AN ALLOY 600 TUBE. IT HAS IN PLACE AND PLUG THE TUBE USJ AND APPROVED PROCEDURES. REMO FOTENTIAL MALFUNCTIONS ON ACCI INSIGNIFICANT INFACT ON THE HE THE PLANT IS QUITE FAR FROMT F STEAM GENERATOR. THEREFORE, THIS ACTION DOES NO MARGIN OF SAFETY AS DEFINED IN	G 21 TUBE CURRENT PROBE BRC A 2' SECTION STL ATOR 22. THE PRC LIC, NYLON AND C EVALUATED TO HAW F CORROSION IF IT BEEN EVALUATED A ING CURRENTLY APF OVING THE TUBE FF TOWING THE TUBE FF DUING THE TUBE CAPA HE APPROVED PLUGG DT CREATE A SAFET	FH Rev Status 54 54 54 55 54 55 55 57 57 57 57 57 57 57 57 57 57 57	Revision Conversion Co	0601 Date Issued	C	Modified Date	
Document FH-340 Document Id SE00352 Subject	Doc T 50.59 LEAVE EDDY CURRENT PROBE IN SC SUMMARY: A LIGHTWEIGHT (2.2 OZ.) EDDY C DURING AN INSPECTION AND LEFT LINE NUMBER 32 IN STEAM GENER STEEL, SOME OTHER MINOR METALL CHEMICAL COMPONENTS HAVE BEEN CORROSION AND ALSO THE RATE OI IN AN ALLOY 600 TUBE. IT HAS IN PLACE AND PLUG THE TUBE USJ AND APPROVED PROCEDURES. REMU POTENTIAL MALFUNCTIONS OR ACCI INSIGNIFICANT IMPACT ON THE HE THE PLANT IS QUITE FAR FROMT F STEAM GENERATOR. THEREFORE, THIS ACTION DOES NO	G 21 TUBE CURRENT PROBE BRC A 2' SECTION STL ATOR 22. THE PRC LIC, NYLON AND C EVALUATED TO HAW F CORROSION IF IT BEEN EVALUATED A ING CURRENTLY APF OVING THE TUBE FF TOWING THE TUBE FF DUING THE TUBE CAPA HE APPROVED PLUGG DT CREATE A SAFET	FH Rev Status 54 54 54 55 54 55 55 57 57 57 57 57 57 57 57 57 57 57	Revision Conversion Co	0601 Date Issued	C	Modified Date	
Document FH-340 Document Id SE00352 Subject	Doc T 50.59 LEAVE EDDY CURRENT PROBE IN SO SUMMARY: A LIGHTWEIGHT (2.2 OZ.) EDDY O DURING AN INSPECTION AND LEFT LINE NUMBER 32 IN STEAM GENERY STEEL, SOME OTHER MINOR METALI CHEMICAL COMPONENTS HAVE BEEN IN SIGN AND ALSO THE RATE OI IN AN ALLOY 600 TUBE. IT HAS IN PLACE AND PLUG THE TUBE USJ AND APPROVED PROCEDURES. REMO FOTENTIAL MALFUNCTIONS ON ACCI INSIGNIFICANT INFACT ON THE HE THE PLANT IS QUITE FAR FROMT F STEAM GENERATOR. THEREFORE, THIS ACTION DOES NO MARGIN OF SAFETY AS DEFINED IN	G 21 TUBE CURRENT PROBE BRC A 2' SECTION STL ATOR 22. THE PRC LIC, NYLON AND C EVALUATED TO HAW F CORROSION IF IT BEEN EVALUATED A ING CURRENTLY APF OVING THE TUBE FF TOWING THE TUBE FF DUING THE TUBE CAPA HE APPROVED PLUGG DT CREATE A SAFET	FH Rev Status 54 54 54 55 54 55 55 57 57 57 57 57 57 57 57 57 57 57	Revision Conversion Co	0601 Date Issued	C	Modified Date	
Document FH-340 Document Id SE00352 Subject Text	Doc T 50.59 LEAVE EDDY CURRENT PROBE IN SC SUMMARY: A LIGHTWEIGHT (2.2 OZ.) EDDY O DURING AN INSPECTION AND LEFT LINE NUMBER 32 IN STEAM GENER STEEL, SOME OTHER MINOR METALL CHEMICAL COMPONENTS HAVE BEEN CORROSION AND ALSO THE RATE OI IN AN ALLOY 600 TUBE. IT HAS IN PLACE AND FLUG THE TUBE US AND APPROVED PROCEDURES. REMU POTENTIAL MALFUNCTIONS OR ACCI INSIGNIFICANT IMPACT ON THE HE THE PLANT IS QUITE FAR FRONT F STEAM GENERATOR. THEREFORE, THIS ACTION DOES NO MARGIN OF SAFETY AS DEFINED IN UNREVIEWED SAFETY QUESTION.	G 21 TUBE CURRENT PROBE BRC A 2' SECTION STL ATOR 22. THE PRC LIC, NYLON AND C EVALUATED TO HAW F CORROSION IF IT BEEN EVALUATED A ING CURRENTLY APF OVING THE TUBE FF TOWING THE TUBE FF DUING THE TUBE CAPA HE APPROVED PLUGG DT CREATE A SAFET	FH Rev Status 54 54 54 55 54 55 55 57 57 57 57 57 57 57 57 57 57 57	Revision Conversion Co	0601 Date Issued	C Create Date 04/09/1999	Modified Date	

Modified Date

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Date : 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

Document Id SE00355 Subject	SAFETY EVALUATION FOR	Doc Type 50.59 RETIRING CAC SUPPLY V	Rev Status 64 ALVE CONTROLS	Revision 0000	Date Issued 05/20/1999	Create Date 05/03/1999	Modified Date 09/07/1999
Text	SUMMARY:						
	OPERATOR VENTED TO AT RECEIPT OF A SIAS THE CONTROLLER OUTPUT TO	COOLER (CAC) INLET CON IN AIR OPERATOR. THE C MOSPHERE VIA A THREE-W SOLENOID VALVE REDIRE THE CV OPERATOR WHICH 'EACH VALVE'S FLOW CON	IN IS NORMALLY OPEN AY SOLENOID VALVE. CTS THE FLOW INDIC SHUTS THE VALVE TO	UPON			
	ACTUATION, THE VALVE AND HELD THERE BY A C TRANSDUCER AND POSITI WILL BE BYPASSED, DIS SERVICE WAIER SUPPLY MAINTAINED. THE THRO ENGINEERING TEST PROC	IONS THE VALVE TRAVEL IS CLOSED AGAINST A TR UALIFIED SOURCE OF COM ONER THAT WERE PREVIOU CONNECTED AND RETIRED. FLOW TO THE CACS, A CA TTLE POSITION HAS BEEN EDURE. THE THROTTLE P TO THE CACS DURING SI	AVEL LIMITER (MECH PRESSED AIR. A CO SLY IN THE VALVE C R.G. 1.97 INDICA TEGORY 2 VARIABLE, DETERMINED BY PRE OSITION WILL ENSUR	ANICAL STOP) NTROLLER, I/P CONTROL LOOP TION OF WILL BE FORMING AN E THAT THE			

Document Id Doc Type Revision To Assoc Status ES199900364-000 ESP 0000 С Document Id Doc Type **Rev Status** Revision Date Issued Create Date Modified Date 50.59 64

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Subject ALLOW 2-CV-2059 TO BE GAGGED IN THE OPEN POSITION

SINGLE ASSEMBLY RECONSTITUTION

Text SUMMARY:

SE00356

Associations

THIS ACTIVITY WILL GAG A VALVE IN THE PLANT AIR SYSTEM OPEN, WHILE THE RELIEF VALVE FOR THE PIPING SYSTEM IS REMOVED FOR TESTING. THE GAG WILL ALLOW THE PLANT AIR HEADER IN THE UNIT 2 TO REMAIN IN SERVICE TO ALLOW ROUTINE ACTIVITIES THAT SUPPORT OPERATIONS TO CONTINUE. THIS ACTIVITY DOES NOT AFFECT EQUIPMENT IMPORTANT TO SAFETY. THIS ACTIVITY DOES NOT CONSTITUTE & USO.

THIS EVALUATION DETERMINES THAT THIS ACTIVITY DOES NOT INVOLVE A USQ.

Associations

Docume	nt Id	De	ос Туре 🔿	Revision To	Assoc	: Status
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Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00357	50.59	64	000	05/11/1999	05/11/1999	12/15/1999
Subject	SINGLE ASSEMBLY RECONSTITUTION					10/10/1000

05/07/1999

05/05/1999

09/07/1999

Text

SUMMARY;

THIS ACTIVITY SUPPORTS REVISIONS TO THE UFSAR AND THE FUEL HANDLING PROCEDURES TO ALLOW A SINGLE FUEL ASSEMBLY TO BE PLACED ON A SPENT FUEL POOL RACK SPACER AND TO HAVE ITS UPPER END FITTING REMOVED FOR THE FURPOSE OF RECONSTITUTION OR INSPECTION. PLACING A FUEL ASSEMBLY ON A RACK SPACER CAUSES IT TO PROTRUDE ABOVE THE TOPS OF THE SPENT FUEL RACKS IN THE SPENT FUEL POOL. THE REVISIONS INCLUDE MODIFICATION OF USAR CHAPTER 14.18 (FUEL HANDLING INCIDENT) AND THE ADDITION OF ADMINISTRATION CONTROLS TO THE FUEL HANDLING PROCEDURES TO MAINTAIN DOSE AND CRITICALITY LIMITS. THE ADMINISTRATIVE CONTROLS INCLUDE A LIMITATION ON THE NUMBER OF ASSEMBLIES WHICH MAY BE FLACED ON RACK SPACERS AT ANY ONE TIME (ONE), RESTRICTIONS ON NOVEMEENT OF LOADS OR OTHER ASSEMBLIES IN THE VICINITY OF THE RAISED ASSEMBLY, RESTRICTIONS ON DECAY THE BEFORE UPPER END FITTING REMOVAL, AND RESTRICTIONS ON PERMAMENT STORAGE OF ALUMINUM SPACES IN THE SPENT FUEL POOL. ONLY THE SINGLE-FAILURE-PROOF CRAME OR SINGLE-FAILURE-PROOF RIGGING

SIMMARY:

SUMMARY:

02/09/2000 Date :

SAFETY EVALUATIONS: 12/1/98-1/31/00

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WILL BE USED OVER THE RECONSTITUTION AREA IN THE SFP FOR LOADS OTHER THAN TOOLS. A KNOWLEDGEABLE AND BRIEFED PERSON WILL BE PRESENT FOR THE ENTIRE TIME THAT THE UPPER END FITTING OR TEMPLATE IS REMOVED FROM AN ASSEMBLY TO RESTRICT MOVEMENT OF LOADS OTHER THAN TOOLS OVER THE RECONSTITUTION AREA IN THE SFP. THESE CHANGES ARE SHOWN TO BE TECHNICALLY JUSTIFIABLE BY ANALYSIS. THE ANALYSIS EVALUATED THE RESULTS OF AN FHI IN THE SPENT FUEL POOL AREA WITH AN ASSEMBLY PLACED ON A RACK SPACER. THE CALCULATION WAS PERFORMED IN ACCORDANCE WITH INC REVIEWED AND APPROVED METHODOLOGY. THIS SAFETY EVALUATION DOCUMENTS THAT AN FHI IN THE SPENT FUEL POOL AREA WITH AN ASSEMBLY ON A RACK SPACER IS BOUNDED BY PREVIOUSLY ACCEPTED RESULTS FOR A DESIGN BASIS FHI IN THE CONTAINMENT AND IN THE SPENT FUEL POOLS.

Associations

Text

Docume			Do	с Туре	Revision To	Assoc	Status
ES199900	504-000		ESI	• 	000	c	
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00358		50.59	64	0000	06/03/1999	05/18/1999	09/07/1999
Subject	50 59 FOR ES 1 998 01	3 14 000					

THIS ACTIVITY CHANGES THE LOGIC FROM ONE OUT OF ONE TO TWO OUT OF TWO FOR THE THURST BEARING WEAR DETECTOR (TEMD) TRIP LOGIC. THE MODIFICATION OF THE UNIT 1 (TEMD) WILL REVISE TURBINE TRIP ALTERS THE LIST OF TURBINE TRIPS PROVIDED IN THE UFSAR SECTION 7 4 7 1D 4 6 ON PAGE 7 4-20 AND AND FIGURE 8-7 SHEET 2. THIS TRIP DOES NOT AFFECT EQUIPMENT IMPORTANT TO SAFETY NOR IS IT CREDITED IN ANY ACCIDENT OR EVENT SCENARIOS.

THIS ACTIVITY DOES NOT CREATE AN UNREVIEWED SAFETY QUESTION AS DEFINED IN 10CFR50.59.

Associations

ES199801			Do	c Type	Revision To	Assoc	: Status
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00359		50.59	64	0000	06/02/1999	05/18/1999	09/07/1999
Subject	INSTALL PLATINUM	DETECTOR TEST ICIS IN	UNIT 1 CYCLE 15				

Text

THE PROPOSED ACTIVITY REPLACES EIGHT OF THE FORTY-FIVE UNIT 1 INCORE INSTRUMENTATION (ICI) ASSEMBLIES WITH ASSEMBLIES THAT CONTAIN ONE PLATINUM DETECTOR AND THREE RHODIUM DETECTORS, AND MODIFIES THE ASSOCIATED INSTRUMENT LOOP INPUT RESISTORS TO THE DATA ACQUISITION SYSTEM (DAS). INCORE INSTRUMENTATION CONSISTS OF INCORE NEUTRON DETECTORS AND CORE EXIT THERMOCOUPLES (CET) .

THIS ACTIVITY DOES NOT AFFECT THE ICI SYSTEM OPERABILITY REQUIREMENTS SPECIFIED IN THE UFSAR. PROCEDURES ARE IN PLACE THAT ACCOUNT FOR THE PLATINUM MATERIAL DURING THE CORE RELOAD DESIGN AND TO ENSURE UFSAR REQUIREMENTS ARE MET DURING THE FUEL CYCLE. THUS, ASSUMPTIONS USED IN THE SAFETY ANALYSIS REMAIN VALID. THE PROPOSED ACTIVITY DOES NOT AFFECT THE DESIGN, FUNCTION, OR OPERABILITY OF THE CETS OR THE DAS.

THE PROPOSED ACTIVITY WILL NOT REQUIRE A CHANGE TO THE TECHNICAL SPECIFI-CATIONS. THE PROPOSED ACTIVITY DOES NOT INCREASE THE PROBABILITY OF OCCURRENCE OR CONSEQUENCES OF AN ACCIDENT OR MALFUNCTION, NOR DOES IT CREATE THE POSSIBILITY OF A NEW ACCIDENT OR MALFUNCTION, NOR DOES IT REDUCE THE DEFINED MARGIN OF SAFETY. THEREFORE, THE PROPOSED ACTIVITY IS NOT AN UNREVIEWED SAFETY QUESTION (USQ).

Date : 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

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Docume	Associations Document Id ES199801407-000		Doc Type Revision To ESP 0000		Assoc c	: Status	
Document Id SE00360 Subject	Doc Type 50.59 Evaluate flush of SDC Piping While in M	Rev Status 64 ODES 1, 2 OR 3.	Revision 0000	Date Issued 05/31/1999	Create Date 05/31/1999	Modified Date 09/07/1999	
Text	SUMMARY: This activity is a procedure change, ap						
	WHICH WOULD ALLOW A FLUSH OF THE COMMON WHILE IN MODES 1, 2 OR 3. THE FLOW PAT THE PAST WHILE THE UNITS ARE SHUTDOWN. PARTICULATE ACTIVITY IN THE SI SYSTEM P DOSE IN CERTAIN AUXILIARY BUILDING ROCH OF CERTAIN SAFETY INJECTION VALVES WILL ACCIDENT POSITION. THESE VALVE POSITIO HOWEVER, RECIRCULATION FLOW LIMITS WILL TO ENSURE ADEQUATE LPSI INJECTION TO TH WITHOUT REPOSITIONING ANY OF THE VALVES POSITIONS. IN ADDITION, DEDICATED OPER THE VALVES THAT ARE REQUIRED FOR RWI IS CORE FLUSH PRIOR TO BORIC ACID PRECIPIT THESE OPERATORS TO TAKE THE REQUIRED AC SAFETY FUNCTIONS WILL BE ABLE TO BE PER	LPSI DISCHARGE AND S H USED IS SIMILAR TO THE FLUSH IS NEEDED IPING IN ORDER TO RED S. DURING THE FLUSH BE CHANGED FROM THEI NS WILL DEGRADE LPSI BE IMPLEMENTED BY TH E RCS IMMEDIATELY UPO THAT ARE OUT OF THEI ATORS WILL BE STATION DIATION PRIOR TO RAS. ATION. AMPLE TIME IS ITON. THEREFORE, THE	UCTION PIPING THAT USED IN TO REMOVE UCE PERSONNEL THE POSITION R NORMAL INJECTION. E PROCEDURE N SIAS, R NORMAL ED TO RESTORE AND FOR LPSI AVAILABLE FOR LPSI SYSTEM		•		
	THIS ACTIVITY WILL DISABLE ONE OF TWO C APPROPRIATE TS ACTION STATEMENT WILL BE TRAIN IS OUT OF SERVICE. THE REMAINING WILL BE CAPABLE OF PERFORMING ALL CONTA	ENTERED WHILE THE AF SPRAY TRAIN WILL BE	FECTED SPRAY OPERABLE AND			· · · · ·	
	THE FLUSHING FLOW PATH WILL REMAIN ISOL NOT AFFECT RWT LEVEL OR BORON CONCENTRA		THE FLUSH WILL				

THEREFORE, THIS ACTIVITY DOES NOT CONSTITUTE AN UNREVIEWED SAFETY QUESTION.

Associations Document Id Doc Type Revision To Assoc Status CA01854 DCALC 0000 С M-94-044 DCALC 0000 С ES199900631-000 ESP 0000 С

Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00361		50.59	64	0000	07/08/1999	06/01/1999	10/22/1999
Subject	REVISE FIGURE 10-1 TO P	REMOVE VIBRATION RECO	RDER FROM SGFPT				

Text SUMMARY:

THE PROPOSED ACTIVITY REPLACES THE VIBRATION MONITORING EQUIPMENT ON 11 AND 12 STEAM GENERATOR FEED PUMPS AND TURBINES. UFSAR FIGURE 10.1 IS BEING REVISED TO REMOVE VIBRATION RECORDER 1 VR 3962 FROM IT. THE RECORDER WILL BE REMOVED AS PART OF THE MODIFICATION. LOCAL INDICATION AND A DATA LOGGER WILL REPLACE THE FUNCTION OF THE RECORDER FOR TRENDING.

THE PROPOSED ACTIVITY WILL NOT REQUIRE A CHANGE TO THE TECHNICAL SPECIFI-CATION. THE PROPOSED ACTIVITY DOES NOT INCREASE THE PROBABILITY OF OCCURRENCE OF AN ACCIDENT OR MALFUNCTION, NOR DOES IT CREATE THE POSSIBILITY OF A NEW ACCIDENT OR MALFUNCTION, NOR DOES IT REDUCE THE DEFINED MARGIN OF SAFETY. THEREFORE, THE PROPOSED ACTIVITY IS NOT AN UNREVIEWED SAFETY QUESTION (USQ).

Associations

Document Id

Doc Type

Assoc Status

Date: 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

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Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00362 Subject	50.59	64	0000	06/11/1999	06/08/1999	10/22/1999	
-	ADD AIR ACCUMULATOR UPSTREAM OF AFW AIR	AMPLIFIER					
Text	SUMMARY:						
	THIS ACTIVITY WILL CHANGE THE TYPE OF CF LOCATIONS FROM Y PATTERN LIFT CHECKS TO ACTIVITY WILL INSTALL AN AIR ACCUMULATOR THE AIR AMPLIFIER FOR THE AUXILIARY FEEL CHECK VALVE IS A BETTER VALVE FOR USE IN TANK WILL MINIMIZE THE PRESSURE TRANSIE BY THE CYCLING OF THE AIR AMPLIFIER. TH DEGRADATION OVER LONG PERIODS OF TIME.	AN AXIAL FLOW CHECK (IN THE PIPING SYSTEM WATER AIR SYSTEM. TH AN AIR SYSTEM. THE I IN THE AIR SUPPLY (IS TRANSIENT LEADS TO	VALVE. THIS M UPSTREAM OF HE AXIAL FLOW ACCUMULATOR SYSTEM CREATED O COMPONENT				
Associations							
Docume		Do	c Type	Revision To	Assoc	: Status	
ES199801	324-000	ESP		0000	с		
Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00364 Subject	50.59 ENDF/B-VI CROSS SECTION	64	0000	06/11/1999	06/11/1999	12/15/1999	
Text	SUMMARY:						
	UFSAR SECTION 3.4.9., ENTITLED "ANALYTIC TECHNIQUES CALVERT CLIFFS USES FOR NUCLE CALVERT CLIFFS USES THE "ENDF/B-IV" NEL WITH MODIFICATIONS. IT DESCRIBES THE CF GROUP STRUCTURE" AND HAS "AN ALTERNATE 4 AVAILABLE. THE PROPOSED CHANGES WILL MO	AR DESIGN. IT STATES TRON CROSS SECTION DA OSS SECTION AS AN *85 1 ENERGY GROUP STRUCT	3 THAT ATABASE 5 ENERGY TURE"			•	
	 ELIMINATE THE REVISION NUMBER (IV TO THE ENDF/B-IV MODIFICATONS CHANGE THE REFERENCE FROM *85 ENE ENERGY GROUPS* ELIMINATE THE REFERENCE TO THE *4 	RGY GROUPS" TO "MULT					
	THE PROPOSED CHANGES ALLOW THE USE OF TH WITH 89 ENERGY GROUPS IN THE CALVERT CLI ALLOWS THE REFLECTOR REGION TO BE CALCUL POINTS IN THE FUEL CYCLE. THE FUEL TEMP OF COOLANT TEMPERATURE, FUEL DEPLETION A SHOWS THE CORRELATION AS A SIMPLE 7TH OR CHANGES ALLOW A 12TH ORDER POLYNCMIAL TO TEMPERATURE CORRELATION. THE PROPOSED C THE TECHNICAL SPECIFICATIONS. THE PROPO UNREVIEWED SAFETY QUESTION BECAUSE IT DO OF OCCURRENCE OR CONSEQUENCES OF AN ACCI CREATE THE POSSIBILITY OF A NEW ACCIDENT REDUCE THE DEFINED MARGIN OF SAFETY.	FFS NUCLEAR DESIGN. ATED EXPLICITLY FOR J ERATURE CORRELATION 1 ND LOCAL POWER. THE DER POLYNGHIAL. THE BETTER REPRESENT THE HNAGES DO NOT REQUIRI ESD CHANGES DO NOT IN ESD CHANGES DO NOT IN ESNOT INCREASE THE I DENT OR MALFUNCTION.	IT ALSO LL TIME IS A FUNCTION TOPICAL REPORT PROPOSED I TRUE IS A CHANGE TO IVOLVE AN ROBABILITY NOR DOES IT				
Associations	at Id	Do	: Type	Revision To	Bee oo	: Status	
E\$199900		ESP	16-	0000	C		
Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00365	50.59	64	0000	06/14/1999	06/14/1999	12/15/1999	

Date: 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

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Text

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SUMMARY:

FUEL RECONSTITUTION OR INSPECTION ACTIVITIES WOULD REQUIRE PLACING A SINGLE ASSEMBLY OR MULTIPLE ASSEMBLIES ON RACK SPACERS IN THE SPENT FUEL POOL AND REMOVING THEIR UPPER END FITTINGS, WHILE ALLOWING FUEL MOVEMENT TO CONTINUE IN THE SPENT FUEL POOL. PLACING FUEL ASSEMBLIES ON RACK SPACERS CAUSES THEM TO PROTRUDE ABOVE THE TOPS OF THE SPENT FUEL RACKS IN THE SPENT FUEL POOL. THIS IS INCONSISTENT WITH THE CURRENT DESCRIPTION OF A FUEL HANDLING INCIDENT IN THE UPSAR. ADDITIONALLY, THE TECHNICAL SPECIFICATION 3. 7. 13 (PERTAINING TO MINIMUM WATER LEVEL IN THE SPENT FUEL POOL) WOULD BE VIOLATED BY THIS ACTIVITY. THUS THE MARGIN OF SAFETY AS DEFINED IN THE BASIS FOR ANY TECHNICAL SPECIFICATION IS REDUCED FOR ASSEMBLIES SCATED ON SPACERS WITH THEIR UPPER END FITTINGS REMOVED; HOWEVER, THERE ARE NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS REDUCED MARGIN OF SAFETY BASED ON THE ADMINISTRATIVE CONTROLS PLACED ON THE RECONSTITUTION AND INSPECTION ATY TECHNICAL SPECIFICATION IS REDUCED MARGIN OF SAFETY BASED ON PLACEMENT OF THE AFFECTED ASSEMBLIES, RESTRICTIONS ON MOVEMENT OF HEAVY LOADS OR OTHER ASSEMBLIES IN THE VICINITY OF AFFECTED ASSEMBLIES, RESTRICTIONS ON PLACEMENT OF THE AFFECTED ASSEMBLIES, RESTRICTIONS ON MOVEMENT OF HEAVY LOADS OR OTHER ASSEMBLIES IN THE VICINITY OF AFFECTED ASSEMBLIES, AND THE SPENT FUEL POOL. THIS ACTIVITY SUPPORTS REVISIONS TO THE UFSAR, THE TECHNICAL SPECIFICATIONS, THE TECHNICAL SPECIFICATION BASES, AND THE SPENT FUEL POOL. THIS ACTIVITY SUPPORTS REVISIONS TO THE UFSAR, THE SPENT FUEL SPECIFICATIONS, THE TECHNICAL SPECIFICATION BASES, AND REMOVAL OF THEIR UPPER END FITTINGS. THE NERDED ACTIVITY, THEREFORE, MARES THE REQUISITE MODIFICATION NOR FUEL ASSEMBLIES ON THE SPENT FUEL SPECIFICATION, AND SPECTION OF MULTIPLE FUEL ASSEMBLIES. THESE CHANGES ARE SHOWN TO BE TECHNICALLY JUSTIFICABLES Y MALVISIS. THE AMALISIS FRACERS AND REMOVAL OF THEIR UPPER END FITTINGS OF THEREIN ARE CONSISTENT WITH RECONSTITUTION OR INSPECTION OF MULTIFICALS SEMBLIES. THEAR WITH ONE ON RAKES SHOWN TO BE TECHNICALLY J

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THIS WORK ALSO CLARIFIES THE SURVEILLANCE REQUIREMENT OF TECHNICAL SPECIFICATION BASES 3. 7. 3 ON SPENT FUEL POOL LEVEL BEING AT EQUILIBRIUM WITH THAT OF THE REFUELING CANAL DURING REFUELING OPERATIONS. THE REVISED SURVEILLANCE REQUIREMENT READS: "DURING REFUELING OPERATIONS, THE LEVEL IN THE SPENT FUEL POOL IS NORMALLY AT EQUILIBRIUM WITH THAT OF THE REFUELING POOL".

Associations

	Document Id E5199900695-000			Doc Type ESP		Asso c C	e Status	
Document Id SE00366 Subject	OPERABILITY CRITERI	Doc Type 50.59 A FOR CET'S	Rev Status 64	Revision	Date Issued 07/06/1999	Create Date 07/06/1999	Modified Date 10/22/1999	
Text	SUMMARY:							
	THERMOCOUPLES (CETS AND TECHNICAL SPECI MUST BE WITHIN 45 D) FOR BOTH UNITS. (FICATION BASES 3.3.) EGREES F OF THE RCS	ITY CRITERIA FOR CORE JURRENTLY, UFSAR SECTI 10 STATE THAT ALL CET HOT LEG RTD TEMPERATU FURTHER LIMITS THIS CR					
	INTERIOR CETS +35 DEG F OR -40 DEG F OF THE HO	+:	ERIPHERAL CETS 20 DEG F OR 15 DEG F OF THE HOT LE	G RTDS				
	THE PROPOSED CHANGE	WILL REVISE THE STR	P O 063 CRITERIA TO TH	E FOLLOWING:				
	INTERIOR CETS	PERTPRESAL CETS (1)		BIDUEDAL CREC(A)				

INTERIOR CETS	PERIPHERAL CETS(1)	CORE SHROUD PERIPHERAL CETS(2)
+35 DEG F OR	+35 DEG F OR	+20 DEG F OR
- 45 DEG F HOT LEG	- 45 DEG F HOT LEG	- 55 DEG F HOT LEG

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Report Name : **REPORT TO NRC** 02/09/2000 Date :

RTDS

SAFETY EVALUATIONS: 12/1/98-1/31/00

RTDS

RTDS (1) UNIT 1 HAS 7 CETS DEFINED AS PERIPHERAL: XD 20, 22, 25, 30,32, 36 AND 43.

UNIT 2 HAS 11 CETS DEFINED AS PERIPHERAL: THOSE LISTED IN UNIT 1 PLUS XD 15, 19, 26 AND 29.

(2) THE 13 CORE SHROUD PERIPHERAL CETS FOR BOTH UNITS WILL BE XD 21, 31, 33, 34, 35, 37, 38, 39, 40, 41, 42, 44 AND 45.

THE UFSAR AND TECH SPEC BASES WILL ALSO BE UPDATED TO REMOVE THE 45 DEG F CRITERIA.

THIS CHANGE IS REQUIRED DUE TO THE IMPLEMENTATION OF A LOW LEAKAGE FUEL MANAGEMENT SCHEME. THE NEW OPERABILITY CRITERIA WILL MORE ACCURATELY REFLECT THE CET PERFORMANCE AND DIFFERENT CORE LOCATIONS. THE PROPOSED CHANGE WILL NOT IMPACT ANY SYSTEM OPERATION OR ACCIDENT RESPONSE.

THE PROPOSED CHANGE WILL NOT AFFECT THE ABILITY OF THE CETS TO PERFORM THEIR REQUIRED SAFETY FUNCTIONS. THEY WILL MAINTAIN THE SAME ACCURACY AND RELIABILITY AS BEFORE.

THEREFORE, THIS ACTIVITY DOES NOT INVOLVE AN UNREVIEWED SAFETY QUESTION.

Associations

ES199900		Do ES	c Type	Revision To 0000	Assoc C	: Status	
Document Id SE00368 Subject	Doc Type 50.59 ADD NEEDLE VALVE TO CAR PUMP SEPERATOR	Rev Status 64 TANK INLET	Revision 0000	Date Issued 07/16/1999	Create Date 07/16/1999	Modified Date 10/22/1999	
Text	SUMMARY:						
	THIS ACTIVITY WILL INSTALL A NEEDLE VA THE CONDENSER AIR REMOVAL FUMP SEPARAT BE SET TO LIMIT THE MAKE-UP SUPPLY TO FOR THE TANK. THIS WILL PREVENT THE T. THE FUMP. THIS ACTIVITY DOES NOT AFFE THIS ACTIVITY DOES NOT CONSTITUTE AN U	OR TANK. THE NEEDLE V THE CAPACITY OF THE GR ANK FROM FLOODING AND CT EQUIPMENT IMPORTANT	ALVE WILL AVITY DRAIN TRIPPING TO SAFETY.				
Associations							
. Docume 64306	nt Id		C Type :Drwg	Revision To 0002	Assoc C	Status	

		ESP		0001	C	
Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
se00369 Subject c	50.59 HANGES IN SW SYSTEM OPERATION	62	0000	07/26/1999	07/26/1999	01/03/2000

Text

FS199801229-000

This modification will change the normal operating configuration of the SW system. The SW system will normally be operated with the SW bypass control valves [1(2)-CV-5154, 5157] shut and the PHE SW outlet valves [1(2)-CV-5209, 5210, 5211, and 5212] full open. Automatic control of the bypass valves or PHE SW outlet valves may be used to support specific operational configurations. The ESFAS will be removed from the CC heat exchanger SW valves as automatic system reconfiguration on a STAS is not required to perform the system design functions. PHE SW system instrumentation and strainer controls are modified to support normal operation of a higher SW flow rate. This activity also installs permanent SW flow indication in the control room to facilitate monitoring system performance during normal operations.

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The SRW heat exchangers were replaced with plate heat exchangers (PHE) during the 1996 and 1999 outages. The modification intended that the PHE SW outlet valves would normally operate in automatic to control flow at 4550 gpm, although provision was made to allow operation with the PHE SW outlet valves in full open. A SW bypass line was provided with a pressure control valve to maintain SW pump minimum flow requirements during system realignments. During their first two years of operation, a higher than expected increase in flow resistance has been experienced in the PHEs due to fouling. To compensate for this condition and to ensure the PHE minimum SW flow requirements are satisfied, the PHE SW outlet valves have been fully opened and the SW bypass valves have been shut. Shutting the bypass valve results in an increased system pressure and provides for greater flow through the heat exchangers. While in this configuration, SW pump minimum flow requirements are verified through use of SW header pressure indications and/or installed SW component flow indications. This modification will make this configuration the normal mode for system operation.

Instrumentation and controls installed during SRW heat exchanger replacement were designed assuming the normal PHE SW flow would be 4550 gpm. When the PHE SW

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SAFETY EVALUATIONS: 12/1/98-1/31/00

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outlet values are placed in full open, the PHE high dP alarm and the strainer high dP flush and alarm are cutout to avoid spurious alarms or strainer flushes. In addition, the differential pressures at the higher flows exceed the indicating range of some of the installed instruments. To support normal system operation in the new configuration, the instrumentation will be re-ranged and the controls and setpoints will be modified. In addition, SW flow indication will be provided in the control room.

the control room. In addition, this modification will permanently eliminate the ESFAS to the CC heat exchanger SW valves. The original SW system required isolation of flow to the CC heat exchanger and full opening of the SRW heat exchanger SW valves to ensure removal of the accident SRW heat load prior to a RAS. After RAS, the CC heat exchanger would be returned to service and the SW flow to the SRW heat exchanger would be reduced. Since heat exchanger replacement, the minimum required SW flow to the PHEs is the same in all modes of operation, i.e., normal operations, LOCA pre-RAS, and LOCA post RAS. Therefore, if the minimum flow requirements to the PHE are satisfied before a LOCA, they will be satisfied after a SIAS without any automatic system reconfiguration. As part of the heat exchanger replacement during the 1998 and 1999 outages, the ESFAS was removed from the SRW heat exchanger SW control valves but was left on the CC heat exchanger SW valves. Removal of the ESFAS from the CC heat exchanger SW valves will eliminate the automatic system reconfiguration and ensure that the total SW flow does not decrease at the start of the accident.

of the accident. Since the SW temperature and flow requirements are not being changed by this activity, the ability of the SRW and CC heat exchangers to perform their design functions is unaffected. Minor modifications to the pressure boundary will be done in accordance with the original codes and standards. Reduced dependence on automatic control functions may decrease the probability of a malfunction. The design provided under this activity ensures that the safety functions provided by the SW, CC, and SRW are maintained, and may be enhanced. The availability of equipment required to mitigate the radiological consequences of an accident described in the SAR is enhanced by the flexibility provided for SW system operation. The redundant cooling capacity of the SW, CC, and SRW systems has not been altered. No new common mode failures are introduced by this activity. Furthermore, the proposed activity will not change, degrade or prevent actions described on any accident described in the SAR. The SW, SRW, and CC systems are accident mitigators. Their ability to perform their safety related functions is not changed by this modification. Therefore, it is concluded that this activity does not involve an unreviewed safety question.

Associations

Date :

Docume 25199900			DO	: Туре	Revision To 0000	Assoc	c Status	
Document Id	· · · · · · · · · · · · · · · · · · ·	Doc Type	Rev Status	Revision	Date Issued	Create Date		
SE00374		50.59	64	0000	08/19/1999	08/19/1999	Modified Date	
Subject	REMOVAL OF ESFAS FROM			0000	00/13/1339	08/19/1999	12/15/1999	
Text	THE PROPOSED ACTIVITY CURRENTLY, 1(2)-CV-52 RETURN TO THEIR PRE A OF EXISTING FLOW INST TO VERIFY SW PUMP MIN. OPERATIONS. THE ORIGINAL SW SYSTE EXCHANGER TO PROVIDE 3 THE ACCIDENT SW HEAT EXCHANGER WAS REDUCED SRW HEAT EXCHANGERS WI HINIMUM REQUIDED SW FI OPERATION, I.E., NORM THERFORE, IF THE MIN. A LOCA, THEY WILL BE 3 RECONFIGURATION. REMO VALVES WILL ELIMINATE THE TOTAL SW FLOW DOE: SINCE THE SW TEMPERATI THIS ACTIVITY, THE ABJ DESIGN FUNCTIONS IS UN EXCHANGER IS SAFETY RI SAR SINCE IT IS UNISOJ ISOLATION OF THIS POR FALLORES. THE SW, SRM ABILITY TO PERFORM THI MODIFICATION. THEREFY AN UNREVIEWED SAFETY (26, 5208, 5160, 516 CIDENT POSITION ON RUMENTATION ON THE C INUM FLOW REQUIREMEN A REQUIRED ISOLATION ADEQUATE FLOW TO THE LOAD PRIOR TO A RAS D TO SERVICE AND THE DURING THE 1998 J CRE REPLACED WITH PI JOW TO THE PHES IS J COW TO THE PHES IS J VAL OF THE SLAS FRO THE AUTOMATIC SYSTE INOT DECREASE AT TH RE AND FLOW REQUIREMEN IN OF DECREASE AT TH RE AND FLOM REQUIRE LLITY OF THE SIAS FRO THE AUTOMATIC SYSTE IN ADD FLOM REQUIRE LLITY OF THE SK AND RAFECTED. IN ADDIT LATED PRESSURE BOUN ATED AFTER A RAS. ION OF THE SW SYSTE J, AND CC SYSTEMS AP LIR SAFETY RELATED F	2, AND 5163 SHUT ON J A RAS. THIS WILL AI A RAS. THIS WILL AI CC HEAT EXCHANGER ANI TTS ARE SATISFIED DUE A OF SW FLOM TO THE OF S. SNW HEAT EXCHANCER S. AFTER RAS, THE CC S. SW HEAT EXCHANCERS. AND 1939 REFUELING OC ATE HEAT EXCHANCERS. THE SAME IN ALL MODES PRE-RAS, AND LOCA PC PRE-RAS, AND LOCA PC PRE-RAS, AND LOCA PC FTS TO THE PHE ARE SD AS WITHOUT ANY AUTOO M THE CC HEAT EXCHANCERS. AS WITHOUT ANY AUTOO M THE CC HEAT EXCHANCERS. MENTS ARE NOT BEING D CC HEAT EXCHANCERS. ICON, THE SW PIPING T IDARY. IT IS CREDITE THEREFORE, ELIMINATI M WILL NOT INTRODUCT E ACCIDENT MITIGATOR WINCTIONS IS NOT CHAN	SIAS AND LOW USE THE SRW PHES ING NORMAL C HEAT TO REMOVE HEAT TAGES, THE THE OF ST RAS. TISFIED BEFORE ATIC SYSTEM GER SW D ENSURE THAT ENT. CHANGED BY TO PERFORM THEIR D THE CHEAT D IN THE EXISTIN NG THE AUTOMATIC NEW POTENTIAL S. THEIR GED BY THIS				
Associations	3							
Docume	nt Id		Doc	туре	Revision To	Assoc	: Status	
MD-1-100			NPI		0600	C		

Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00375	50.59	64		10/13/1999	08/20/1999	01/28/2000
Subject	MODIFY TRIP LOGIC (FROM 1/3 TO 2/3) FOR	U-1 LOW STATOR COOLT	NG INLET PRESSURE	RINBACK CIRCUIT		

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Date: 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

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Text

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SUMMARY:

THIS ACTIVITY REDUCES THE PROBABILITY OF INADVERTENT TURBINE TRIP BY UPGRADING THE TURBINE RUNBACK CIRCUIT TRIP LOGIC FROM ONE-OUT-OF-ONE TO TWO-OUT-OF-THREE. BASED ON THE ABOVE EVILUATION, THIS ACTIVITY DOES NOT INCREASE THE PROBABILITY OR CONSEQUENCES OF AN ACCIDENT OR MALFUNCTION PREVIOUSLY EVALUATED IN THE UFSAR. NOR DOES IT CREATE A N EW TYPE OF ACCIDENT OR MALFUNCTION NOT PREVIOUSLY EVALUATED IN THE UFSAR. THIS ACTIVITY DOES NOT RESULT IN A REDUCTION OF THE MARGIN OF SAFETY IN THE TECHNICAL SPECIFICATIONS. THIS ACTIVITY DOES NOT CREATE AN UNREVIEWED SAFETY QUESTION.

الأربعة الجنبية بالتنابية فتركب والمتراب المتحد التراك

Associations

E5199900677-000		E51	c Type	Revision To	C Assoc	: Status	
ocument Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
E00376 Subject ALLOW US	50.59 E of SW Bypass Valve in Manual	64	0000	08/26/1999	08/26/1999	12/15/1999	
AND 5157 ADEQUATE LINE REC FLOW, EL INDICATI THE SRW DURING T FLOW REC SYSTEM C AN AUXIL SW OUTLE AT 4550 SW FLOW SW FUMP REQUIREM [1 (2) CV CONSTANT THE CC H EXCHANCE COMPENSA AND ENSU PHE SW O HAVE BEE SYSTEM D EXCHANCE REQUIREM INDICATI DURING N ESTABLIS ON AN ES ESTABLIS ON AN ES ESTABLIS ON AN ES ESTAS TO MEANS OF INSTRUME PRESSURE AFTER A NOT AUTO THE THRO MONITOR SYSTEM D INSTRUME SYSTEM D INSTRUME AFTER A NOT AUTO THE THRO MONITOR SYSTEM D INFREAT TEMPERAT TEMPERAT TEMPERAT	PROSED ACTIVITY IS TO ALLOW THE : Prosed ACTIVITY IS TO ALLOW THE : I TO BE FLACED IN MANUAL AND SH I TO SYSTEM HEAT EXCHANGERS. SW HEADER PRESSURE, SW PUMP ONS. HEAT EXCHANGERS WERE REPLACED W. HE 1998 AND 1999 OUTAGES. TO E WIREMENTS COULD BE SATISFIED WHI PERATION, A SW BYPASS LINE MAS I IARY SW FLOW PATH. THE MODIFIC I VALVES WOULD NORMALLY OPERATE GPM. WITH THE PHE SW OUTLET VAI THROUGH THE TWO PHES WOULD BE LI FLOW OF 10000 GFM. TO ENSURE TI SISTA AND 5157] WAS FLACED IN TI SW HEADER PRESSURE. THUS, IF I EAT EXCHANGER DURING NORMAL OPER R ISOLATED ON A SIAS, THE BYPASS I FOR THE FLOW REDUCTION. TO C RT THE PHE MINIMUM SW FLOW REQUIN UTLET VALVES HAVE BEEN FULLY OP N SHUT. SHOTTING THE BYPASS VAI RESSURE AND PROVIDES FOR GREATER RS. WHILE IN THIS CONFIGURATION ENTS ANC VENIFIED THROUGH USE OD ONS AND/OR INSTALLED SW COMPONENTS INSTALLO SISTEM HEADER PRESSUR INSTALED INSTINGTHE PRESSINT AND FAS, E.G., THE PHES AND THE CC H INS SINCE THE CONTROL VALVES REMOVED.; INSTALED INSTINCENTATION INLL NTS, SW USBYSTEM HEADER PRESSING THE SU CONTROL VALVES REMOVED. INSTALED INSTIMENTATION AFTER A TILE POSITION OF THE CC HEAT EXC FLOW CHANGES WITH SU HEADER PRESS IN MITH THE SW DENTROL VALVES FOR OWNED INSTALED INSTIMENTATION. AFTER A TILE POSITION OF THE CC HEAT EXC FLOW CHANGES WITH SW HEADER PRESS IN MITH THE SW DENTROL VALVES FOR OWNED INSTALED FLOW TO ALL SW HEAT EX SIGN ACCIDENT HEAT LOAD CAN BE TREE CAN BE MAINTAINED, AND THE URA CAN BE CONTROLLED. THE SW IN INCREASED SIM WIN FUM IS VERIFIE WAINGERS ARE DESIGNED TO FAIL TO NE OR INCREASED SW FLOW IN THE INNORES ARE DESIGNED TO FAIL TO NE OR INCREASED SW FLOW IN THE INNORES ARE DESIGNED TO FAIL TO AND OR INCREASED SW FLOW IN THE INNORES ARE DESIGNED TO FAIL TO NE OR INCREASED SW FLOW IN THE INNORES ARE DESIGNED TO FAIL TO AND OR INCREASED SW FLOW IN THE INNORES ARE DESIGNED TO FAIL TO THANGERS ARE DESIGNED TO	UT WHEN NECESSARY TO SHUTING THE SW BY MONITOR SW PUMP MINI DISCHARGE PRESSURE, ITH PLATE HEAT EXCHAN NSURE THAT SW PUMP MI ILE PROVIDING FLEXHBI INSTALLED AROUND THE ATION INTENDED THAT T INSTALLED AROUND THE ATION INTENDED THAT T IN AUTOMATIC TO CONT LAT SW PUMP MINIMUM F AS, A PRESSURE CONTRO HAT SW PUMP MINIMUM F AS, A PRESSURE CONTRO HE BYPASS LINE TO MAI IELOW MAS ESTABLISHED COMPENSATE FOR MACRO COMPENSATE FOR MACRO COMPENSATE FOR MACRO COMPENSATE FOR MACRO COMPENSATE FOR MACRO INFLOW RAS ESTABLISHED SCONTOL VALVE WOULD COMPENSATE FOR MACRO MACON THE SW BYPAS LVE RESULTS IN AN INCI COMPENSATE FOR MACRO O NOT AUTOMATICALLY M FLOW INDICATIONS. UM FLOW REQUIREMENTS (DO NOT AUTOMATICALLY HEAT EXCHANGER (WITH ' DING COMPONENTS WFLA LSO BE THE MINIMUM SW R THE SELECTED COMPOO LSO BE THE MINIMUM SW R THE SELECTED COMPOO SURE. WD SHUT WILL RESULT ; CHANGER SW VALVES, AN SURE. WD SHUT WILL RESULT ; CCHANGERS W VALVES, AN THE OPEN POSITION, RI THE OPEN POSITION, RI THE OPEN POSITION, RI THE OPEN POSITION, AND ENSI IE COMPONENTS AND ENSI IE COMPONENTS AND ENSI IE ECOMPONENTS AND ENSI IE COMPONENTS AND ENSI IE ECOMPONENTS AND ENSI IE ECOMPONENTS AND ENSI IE ECOMPONENTS AND ENSI IE ECOMPONENTS AND ENSI IE COMPONENTS AND ENSI IE ECOMPONENTS AND ENSI IE ECOMPONENTS AND ENSI IE COMPONENTS AND ENSI IE ED AND INT THE SW BYPAS ID THROUGH COMPONENTS AND ENSI IE ED AND THE SU BYPAS	ENSURE PASS MUM OR FLOW GERS NUMM LITY IN PHES AS HE PHE ROL FLOW E TOTAL E TO				ъ.

Date : 02/09/2000

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SAFETY EVALUATIONS: 12/1/98-1/31/00

ES1999009			DO ESF	с Туре	Revision To 0000		Status
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Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
E00377 Subject	REFUELING MACHIN	50.59 E REPLACEMENT	64	0000	10/29/1999	09/01/1999	01/28/2000
Text	SUMMARY:						
	The Unit 1 and U Controller (PLC) stored outside o	Dased Control system.	s (RFMs) are being rep The bulk of the cont:	blaced by machines tol system will be	with a higher load capacity contained in a removable co	y, higher full speed control console which w	apability, and a Programmable Logic fill be shared between the units and
	and new machines	dern rerueling machines	are based on computer w and retrofit control	controlled roboti	cs. Programmed and Remote	(Dab) Sveteme Incomp	nd interlock features, and ease of wrated, the designer of the existing sociated with the new RFMs are very
	Administrative c consequences of	ontrols, qualified opera a fuel handling incident	ators, and prescribed t are not increased.	procedures combine Therefore, this mo	ed with machine mechanical a dification is not an Unrevi	and electrical interlo lewed Safety Question.	cks ensure that the likelihood or
Associations							
Documen	t Id		Do	с Туре	Revision To	Assoc	Status
ES1995020	88-003		ESP		0000	c	
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
SE00378 Subject	REVISE UFSAR FIG	50.59 URE 8-5 61030	62	0000	12/08/1999	09/14/1999	12/14/1999
Associations			•				
Documen	t Id		Do	: Туре	Revision To	Assoc	Status
ES1999008	05-000	· · · · · · · · · · · · · · · · · · ·	ESP		0000	С	
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
E00380 Subject	REVISE TECH SPEC	50.59 BASIS 3.3.10 TO MATCH (64 CALVERT CLIFFS 12 CST	LEVEL INDICATOR	10/06/1999	09/30/1999	01/28/2000
Text	SUMMARY:						
	The proposed act covers the useab	ivity is to change the t le water level in the te	echnical specifications.	n basis descriptio	n of the level indication f	or Condensate Storage	Tank Number 12 to indicate that it
	Operating Proced	nical Specification 3./.	 That Technical Sp that the CST volume is 	ecification requir s 9,636.78 gallons	es the tank to contain 150.	000 gallone ner unit.	is used to contain the water or 300,000 gallons. Emergency be only 115,641.36 gallons -
	The technical sp indication, ther	ecification reqirement o efore, 38 feet level ind	of 300,000 gallons is lication includes the	32.5 feet above th level that satisfi	e reference line in the CST es the technical specificat	. The reference line ion requirement.	is the 0 point on the level
	The 144 inches i		E standard (NUREG-143				er. It was not changed on the LAR
	As stated in Tech tank" to show the	hnical Specification B3. at this level indicator	7.4, the technical sp is on 12 CST.	ecification tank i	s 12CST. Therefore, the wo	ording in B 3.3.10 is	being changed to "12 CST" vice "each
Associations Documen	+ 14		De.	туре	Revision To	Bac	Status

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Date : 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

Document Id SE00382		Doc Type 50,59	Rev Status 62	Revision 0000	Date Issued 12/17/1999	Create Date 10/28/1999	Modified Date 02/08/2000
Subject		STALL CAB MOUNTED CON	TROLS ON POLAR CRANES				
Association			_	_	·		
	ent Id			с Туре	Revision To		: Status
E219960	0889-000		ESI	• 	0000	с	
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date
5E00403		50.59	64		11/29/1999	11/16/1999	01/28/2000
Subject	REVISE TRM TO REFL	ECT REED SWITCH CEA PO	OSITION DISPLAY ACCUR	ACY TO 3.0 INCHES			
Association	8						
Docume	ent Id		Do	с Туре	Revision To	Assoc	: Status
ES19980	1203-000		ESF	,	0000	C	
ocument Id			Rev Status	Revision	Dobo Tormed	A maaha B aha	
SE00404		Doc Type	64	Nevision 0000	Date Issued	Create Date	Modified Date
Subject	MODIFICATION ES199	50.59 800827-001 ADDITION O		0000	12/01/1999	11/22/1999	01/28/2000
Text	SUMMARY:						
	TO THE 07 BUS THIS	ACTIVITY WILL HAVE NO	D IMPACT AT THIS TIME.	. THERE WILL BE NO	MEANS TO CHANGE THE POSIT	TON OF THE DISCONNECT	N THE SAR BEYOND A SOURCE OF POWER. SWITCHES BETWEEN THE TRANSFORMER AND
	THIS CHANGE DOES N	E. IN THE FUTURE, TH OT RESULT IN AN UNRES	IS CAPABILITY WILL BE DIVED SAFETY QUESTION	DEVELOPED, A NEW 5	0.59 WILL PREPARED AT THAT	TIME TO DISCUSS THE	IMPACT OF THIS ACTIVITY. THEREFORE,
Docume	THIS CHANGE DOES N	E. IN THE FUTURE, TH	DLVED SAFETY QUESTION	C Type	Revision To	TIME TO DISCUSS THE	INPACT OF THIS ACTIVITY. THEREFORE,
	THIS CHANGE DOES N	E. IN THE FUTURE, TH	IS CAPABILITY WILL BE DIVED SAFETY QUESTION	C Type	0.59 WILL PREPARED AT THAT	TIME TO DISCUSS THE	IMPACT OF THIS ACTIVITY. THEREFORE,
Docume E5199800	THIS CHANGE DOES N	E. IN THE FUTURE, TH	DLVED SAFETY QUESTION	C Type	Revision To	TIME TO DISCUSS THE	IMPACT OF THIS ACTIVITY. THEREFORE,
Docume ES199800 ocument Id 200405	THIS CHANGE DOES N	L. IN THE FULURE, TH.	DOLVED SAFETY QUESTION	C Type	Revision To 0000	TIME TO DISCUSS THE ABBOC C	IMPACT OF THIS ACTIVITY. THEREFORE,
Docume ES199800 Document Id E00405	THIS CHANGE DOES N Smt Id 0827-001	Doc Type	DOLVED SAFETY QUESTION DO ESP Rev Status 64	C Type Revision	Revision To 0000 Date Issued	TIME TO DISCUSS THE Assoc C Create Date	Modified Date
	THIS CHANGE DOES N Smt Id 0827-001	Doc Type 50.59	DOLVED SAFETY QUESTION DO ESP Rev Status 64	C Type Revision	Revision To 0000 Date Issued	TIME TO DISCUSS THE Assoc C Create Date	Modified Date
Docume ES199800 Ocument Id E00405 Subject	INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS ACTIVITY REM SINGLE T-HOT INPUT	DOC Type 50.59 DR JUMPERING OUT 1TE11 UATES DISABLING A PRID	Rev Status 64 12HA AT 1TT112HA GARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS THE OUTPUT OF THE THE THE	C Type Revision 0000 TO RPS. THE SYSTEE SO THAT THERE OF T	Revision To 0000 Date Issued 11/26/1999	TIME TO DISCUSS THE Assoc C Create Date 11/25/1999	Modified Date
Docume ES199800 Document Id E200405 Subject	INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS ACTIVITY REM SINGLE T-HOT INPUT CHANNELS AND THO ST THE FUNCTION OF TH	Doc Type 50.59 DATES DISABLING A PRIN UATES DISABLING A PRIN TO ACCOMPLISH THIS, UB-COOLED MARGIN MONT	ARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS THE OUTPUT OF THE THORE	Revision 0000 TO RPS. THE SYSTEM SO THAT THREE OF TH MPERATURE TRANSMIT	A VERAGES THE TEMPERATURE TE CHANNELS WILL STILL HAVI CANNELS WILL STILL HAVI CER INTO RFS WILL BE DISABLE DIMATELY THE SAME TEMPERATURE	TIME TO DISCUSS THE ABBOO C C Create Date 11/25/1999 OF THE 11 AND 12 HOT E A T-HOT AVERAGE (TWO LED. THIS ACTIVITY W	Modified Date 01/28/2000
Document Id E00405 Subject	INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS ACTIVITY EVAL THIS ACTIVITY EVAL THIS ACTIVITY REM SINGLE T-HOT INPUT CHANNELS AND TWO S THE FUNCTION OF TH SINGLE RTD. THERE BASED ON THE ABOVE DOES IT CREATE A N	Doc Type 50.59 DR JUMPERING OUT 1TE11 UATES DISABLING A PRIN DVES AN RTD INPUT FROM . TO ACCOMPLISH THIS, DB-COOLED MARGIN MONIT E RPS WILL BE UNAFFECT ARE NO ASYMETRICAL EX DISCUSSION, THIS ACTI	DOUVED SAFETY QUESTION DOUESP Rev Status 64 12HA AT 1TT112HA MARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS THE OUTPUT OF THE TH FORS. TED BECAUSE THE TWO HG ZENTS THAT RELY ON T	C Type Revision 0000 TO RPS. THE SYSTEM SO THAT THREE OF TH MPERATURE TRANSMIT OT LEGS ARE AT APPRO INFUTS TO TRIP S SE THE PROBABILITY (IOUSLY EVALUATED (Revision To 0000 Date Issued 11/26/1999 A AVERAGES THE TEMPERATURE TE CHANNELS WILL STILL HAV TER INTO RPS WILL BE DISAB DXIMATELY THE SAME TEMPERATURE THE REACTOR. DR CONSEQUENCES OF AN ACCTI N THE SAME. THIS ACTIVITY	TIME TO DISCUSS THE Assoc C C Create Date 11/25/1999 OF THE 11 AND 12 HOT E A T-HOT AVERAGE (TW LED. THIS ACTIVITY W TURE, THEREFORE SYMETI	IMPACT OF THIS ACTIVITY. THEREFORE, S Status Modified Date 01/28/2000 LEG RTDS FOR FOUR DIFFERENT CHANNELS. D INFUTS) AND ONE CHANNEL WILL HAVE A ILL MAINTAIN FOUR OPERABLE RPS
Document ES199800 Occument Id E00405 Subject Text	THIS CHANGE DOES N THIS CHANGE DOES N THIS CHANGE DOES N Smit Id D827-001 INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS A	Doc Type 50.59 DATES DISABLING A PRIN UATES DISABLING A PRIN DISABLING A PRIN DISABLI	DOUVED SAFETY QUESTION DOUESP Rev Status 64 12HA AT 1TT112HA MARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS THE OUTPUT OF THE TH FORS. TED BECAUSE THE TWO HG ZENTS THAT RELY ON T	C Type Revision 0000 TO RPS. THE SYSTEM SO THAT THREE OF TH MPERATURE TRANSMIT OT LEGS ARE AT APPRO INFUTS TO TRIP S SE THE PROBABILITY (IOUSLY EVALUATED (Revision To 0000 Date Issued 11/26/1999 A AVERAGES THE TEMPERATURE TE CHANNELS WILL STILL HAV TER INTO RPS WILL BE DISAB DXIMATELY THE SAME TEMPERATURE THE REACTOR. DR CONSEQUENCES OF AN ACCTI N THE SAME. THIS ACTIVITY	TIME TO DISCUSS THE Assoc C C Create Date 11/25/1999 OF THE 11 AND 12 HOT E A T-HOT AVERAGE (TW LED. THIS ACTIVITY W TURE, THEREFORE SYMETI	IMPACT OF THIS ACTIVITY. THEREFORE, S Status Modified Date 01/28/2000 LEG RTDS FOR FOUR DIFFERENT CHANNELS. D INPUTS) AND ONE CHANNEL WILL HAVE A ILL MAINTAIN FOUR OPERABLE RPS RICAL EVENTS WILL BE DETECTED BY THE REVIOUSLY EVALUATED IN THE SAR. NOR
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Docume ES199800 Document Id E00405 Subject Text Associations Docume 609075H0	THIS CHANGE DOES N THIS CHANGE DOES N THIS CHANGE DOES N Smit Id D827-001 INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS A	Doc Type 50.59 Dr JUMPERING OUT 1TE11 UATES DISABLING A PRIN UATES DISABLING A PRIN UATES DISABLING A PRIN UB-COOLED MARGIN MONT E RPS WILL BE UNAFFECT ARE NO ASYMETRICAL ET DISCUSSION, THIS ACTI EN TYPE OF ACCIDENT OF	DOUVED SAFETY QUESTION DOUESP Rev Status 64 12HA AT 1TT112HA GARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS 7 THE OUTPUT OF THE TH FORS. THE BECAUSE THE TWO HO FENTS THAT RELY ON T-1 IVITY DOES NOT INCREAS MALFUNCTION NOT PREV THIS ACTIVITY IS NOT DOG BGE	Revision 0000 TO RPS. THE SYSTEM SO THAT THREE OF TH MPERATURE TRANSMIT TO LEGS ARE AT APPRO NOT INPUTS TO TRIP S SE. THE PROBABILITY OF FOUSLY EVALUATED IN AN UNREVIEWED SAFE C Type DRWG	Revision To 0000 Date Issued 11/26/1999 A AVERAGES THE TEMPERATURE THE CHANNELS WILL STILL HAV TER INTO RPS WILL BE DISAB DXIMATELY THE SAME TEMPERATION THE REACTOR. OR CONSEQUENCES OF AN ACCIINT THE SAR. THIS ACTIVITY IN Y QUESTION.	TIME TO DISCUSS THE ABBOO C C Create Date 11/25/1999 OF THE 11 AND 12 HOT E A T-HOT AVERAGE (TW LED. THIS ACTIVITY W TURE, THEREFORE SYMETI DOES NOT RESULT IN A 1 DOES NOT RESULT IN A 1	IMPACT OF THIS ACTIVITY. THEREFORE, S Status Modified Date 01/28/2000 LEG RTDS FOR FOUR DIFFERENT CHANNELS. D INFUTS) AND ONE CHANNEL WILL HAVE A ILL MAINTAIN FOUR OPERABLE RPS RICAL EVENTS WILL BE DETECTED BY THE REVIOUSLY EVALUATED IN THE SAR, NOR REDUCTION OF THE MARGIN OF SAFETY IN
Docume ES199800 Document Id E00405 Subject Text Associations Docume	THIS CHANGE DOES N THIS CHANGE DOES N THIS CHANGE DOES N Smit Id D827-001 INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS A	Doc Type 50.59 Dr JUMPERING OUT 1TE11 UATES DISABLING A PRIN UATES DISABLING A PRIN UATES DISABLING A PRIN UB-COOLED MARGIN MONT E RPS WILL BE UNAFFECT ARE NO ASYMETRICAL ET DISCUSSION, THIS ACTI EN TYPE OF ACCIDENT OF	DOUVED SAFETY QUESTION DOUESP Rev Status 64 12HA AT 1TT112HA GARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS 7 THE OUTPUT OF THE TH FORS. THE BECAUSE THE TWO HO FENTS THAT RELY ON T-1 IVITY DOES NOT INCREAS MALFUNCTION NOT PREV THIS ACTIVITY IS NOT DOG BGE	C Type Revision 0000 TO RPS. THE SYSTEM SO THAT THREE OF TH MPERATURE TRANSMIT OT LEGS ARE AT APPRO NOT INPUTS TO TRIP : SE. THE PROBABILITY (AN UNREVIEWED SAFE: C Type	Revision To 0000 Date Issued 11/26/1999 A AVERAGES THE TEMPERATURE TE CHANNELS WILL STILL HAV FER INTO RPS WILL BE DISAE DXIMATELY THE SAME TEMPERATURE THE REACTOR. DR CONSEQUENCES OF AN ACCI IN THE SAM. THIS ACTIVITY IN TY QUESTION.	TIME TO DISCUSS THE ABBOO C C Create Date 11/25/1999 OF THE 11 AND 12 HOT E A T-HOT AVERAGE (TW LED. THIS ACTIVITY W TURE, THEREFORE SYMETI DENT OR MALFUNCTION P DOES NOT RESULT IN A 1 ASSOC	IMPACT OF THIS ACTIVITY. THEREFORE, S Status Modified Date 01/28/2000 LEG RTDS FOR FOUR DIFFERENT CHANNELS. D INFUTS) AND ONE CHANNEL WILL HAVE A ILL MAINTAIN FOUR OPERABLE RPS RICAL EVENTS WILL BE DETECTED BY THE REVIOUSLY EVALUATED IN THE SAR, NOR REDUCTION OF THE MARGIN OF SAFETY IN
Docume ES199800 Document Id E00405 Subject Text Associations Docume 609075H0	THIS CHANGE DOES N THIS CHANGE DOES N THIS CHANGE DOES N Smit Id D827-001 INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS A	Doc Type 50.59 Dr JUMPERING OUT 1TE11 UATES DISABLING A PRIN UATES DISABLING A PRIN UATES DISABLING A PRIN UB-COOLED MARGIN MONT E RPS WILL BE UNAFFECT ARE NO ASYMETRICAL ET DISCUSSION, THIS ACTI EN TYPE OF ACCIDENT OF	DOUVED SAFETY QUESTION DOUESP Rev Status 64 12HA AT 1TT112HA GARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS 7 THE OUTPUT OF THE TH FORS. THE BECAUSE THE TWO HO FENTS THAT RELY ON T-1 IVITY DOES NOT INCREAS MALFUNCTION NOT PREV THIS ACTIVITY IS NOT DOG BGE	Revision 0000 TO RPS. THE SYSTEM SO THAT THREE OF TH MPERATURE TRANSMIT TO LEGS ARE AT APPRO NOT INPUTS TO TRIP S SE. THE PROBABILITY OF FOUSLY EVALUATED IN AN UNREVIEWED SAFE C Type DRWG	Revision To 0000 Date Issued 11/26/1999 A AVERAGES THE TEMPERATURE THE CHANNELS WILL STILL HAV TER INTO RPS WILL BE DISAB DXIMATELY THE SAME TEMPERATION THE REACTOR. OR CONSEQUENCES OF AN ACCIINT THE SAR. THIS ACTIVITY IN Y QUESTION.	TIME TO DISCUSS THE ABBOO C C Create Date 11/25/1999 OF THE 11 AND 12 HOT E A T-HOT AVERAGE (TW LED. THIS ACTIVITY W TURE, THEREFORE SYMETI DOES NOT RESULT IN A 1 DOES NOT RESULT IN A 1	IMPACT OF THIS ACTIVITY. THEREFORE, S Status Modified Date 01/28/2000 LEG RTDS FOR FOUR DIFFERENT CHANNELS. D INFUTS) AND ONE CHANNEL WILL HAVE A ILL MAINTAIN FOUR OPERABLE RPS RICAL EVENTS WILL BE DETECTED BY THE REVIOUSLY EVALUATED IN THE SAR, NOR REDUCTION OF THE MARGIN OF SAFETY IN
Docume ES199800 Document Id E00405 Subject Text Associations 609075H0 609075H0	THIS CHANGE DOES N THIS CHANGE DOES N THIS CHANGE DOES N Smit Id D827-001 INSTALL TEMP ALT F SUMMARY: THIS ACTIVITY EVAL THIS A	Doc Type 50.59 DR JUMPERING OUT 1TE11 UATES DISABLING A PRID UATES DISABLING A PRID UATES DISABLING A PRID UDVES AN RTD INPUT FROM . TO ACCOMPLISH THIS, UB-COOLED MARGIN MONIT E RPS WILL BE UNAFFECT DISCUSSION, THIS ACTI EW TYPE OF ACCIDENT OF IFICATIONS, THEREFORE	DOUVED SAFETY QUESTION DOUESP Rev Status 64 12HA AT 1TT112HA MARY SYSTEM RTD INPUT 4 ONE OF THE CHANNELS THE OUTPUT OF THE TH TORS. TED BECAUSE THE TWO HK CENTS THAT RELY ON T-H CVITY DOES NOT INCREAS MALFUNCTION NOT PREV THIS ACTIVITY IS NOT DOU BGE BGE	C Type Revision 0000 TO RPS. THE SYSTEM SO THAT THREE OF TI MPERATURE TRANSMIT DT LEGS ARE AT APPRR TO TIPUTS TO TRIP : SE. THE PROBABILITY (/IOUSLY EVALUATED IN AN UNREVIEWED SAFE: C Type DRWG DRWG	Revision To 0000 Date Issued 11/26/1999 A AVERAGES THE TEMPERATURE IS CANNELS WILL STILL HAV TER INTO RPS WILL BE DISAB DXIMATELY THE SAME TEMPERATURE INTO RPS WILL BE DISAB DXIMATELY THE SAME TEMPERATURE INTHE SAR. THIS ACTIVITY IN Y QUESTION. Revision To 0013 0005	TIME TO DISCUSS THE Assoc C C Create Date 11/25/1999 OF THE 11 AND 12 HOT E A T-HOT AVERAGE (TW LED. THIS ACTIVITY W TURE, THEREFORE SYMETH DOES NOT RESULT IN A 1 DOES NOT RESULT IN A 1 ASSOC C C	IMPACT OF THIS ACTIVITY. THEREFORE, Status Modified Date 01/28/2000 LEG RTDS FOR FOUR DIFFERENT CHANNELS. 0 INPUTS) AND ONE CHANNEL WILL HAVE A ILL MAINTAIN FOUR OPERABLE RPS RICAL EVENTS WILL BE DETECTED BY THE REVIOUSLY EVALUATED IN THE SAR, NOR REDUCTION OF THE MARGIN OF SAFETY IN Status

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SAFETY EVALUATIONS: 12/1/98-1/31/00

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Text SUMMARY:

THE BORONOMETERS FOR UNIT ONE AND TWO WILL BE RETIRED BY THIS ACTIVITY. THE BORONOMETERS PROVIDE LIMITED VALUE BASED ON THEIR SLOW RESPONSE TIME AND ARE COSTLY TO MAINTAIN DUE TO OBSOLESCENCE ISSUES. THE BORONOMETERS DO NOT FUNCTION TO PREVENT OR MITIGATE ANY MALFUNCTIONS OF EQUIPMENT IMPORTANT TO SAFETY OR ACCIDENTS ANALYZED IN CHAPTER 14 OF THE URSAR. CONTINUOUS INDICATION OF RCS BORON CONCENTRATION IN THE CONTROL ROOM IS NOT REQUIRED TO SATISFY THE INTENT OF EITHER REG. GUIDE 1.97 OR NUREG-0696 WITH REGARD TO THE SAFETY PARAMETER DISPLAY SYSTEM (SPDS). THEREFORE, THE ACTIVITY PROPOSED BY THIS 50.59 DOES NOT CONSTITUTE AN UNREVIEWED SAFETY QUESTION.

Associations

Docume		Do	ос Тура	Revision To	Assoc	: Status	
ES199900	807-000	ES	P	0000	c		
Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00408	50.59	62	0001	01/31/2000	01/26/2000	02/09/2000	
Subject	CONSTRUCTION OF SMECO TIE TO BUS 17						

Text REVISION TO CLARIFY SCOPE AND APPLICABILITY.

THE PROPOSED ACTIVITY IS ADDING A NEW CIRCUIT INTERCONNECTION IN THE PLANT POWER DISTRIBUTION SYSTEM. PLANT 4KV BUS 17, VIA CIRCUIT BREAKER 152-1705 (FORMERLY SPARE) WILL NOW BE CAPABLE OF ALIGNMENT/CONNECTION TO THE 4KV WINDINGS OF TRANSFORMER 0X01. CIRCUIT BREAKER 152-1705 WILL BE CONNECTED TO 1MBT189-1705 AT SWITCH POSITION 1 (NEW CONNECTION), AND FROM SWITCH POSITION 3 ON TO THE 4KV WINDING OF TRANSFORMER 0X01 (AN EXISTING CONNECTION). THE CIRCUIT BREAKER 152-1705 WILL PROVIDE THE REQUIRED ISOLATION/INDEPENDENCE BETWEEN SAFETY RELATED 17 BUS AND THE NSR COULPENNT DOWNSTREAM. BREAKER 152-1705 WILL RECEIVE A TRID. ON U/V AND SIAS AS REQUIRED TO SUPPORT CIRCUIT INDEPENDENCE, IF THE BREAKER IS MANUALLY CLOSED AFTER THE GENERATION OF ONE OF THESE SIGNALS THE CONDITION WILL BE NOTED BY

OPERATION OF BREAKER 152-1705 IS LOCAL WITH NO AUTOMATIC OR REMOTE CLOSE SIGNALS. THIS BREAKER WILL COORDINATE WITH OTHER PROTECTIVE FEATURES ON BUS 17 TO ENSURE PROFER INDEPENDENCE PER IEEE 384-1991. A TRIP SIGNAL WILL BE RECEIVED ON A U/V OR SIAS ACTUATION TO SHED THIS LOAD AS REQUIRED FOR CIRCUIT INDEPENDENCE. A KEY LOCKED SWITCH IS PROVIDED TO BLOCK THIS SIGNAL, PLACING THIS WITCH IN THE BLOCK POSITION WILL ANNUNCIATE AT LC186 FOR AN ABNORMAL CONDITION AND WILL BE REFEATED IN THE CONTROL ROOM. PLACING THIS SWITCH IN THE BLOCK POSITION WILL RESULT IN THE 1 ALPRA DIESEL GENERATOR BEING OUT OF SERVICE IN MODES REQUIRING SIAS PROTECTION.

THIS ACTIVITY DOES NOT CREATE AN UNREVIEWED SAFETY QUESTION.

Associations

Docume			Do	с Туре	Revision To	Assoc	Status	
ES199800	827-002		ESI	P	0001	с		
Document Id		Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00408		50.59	62	0000	01/04/2000	12/13/1999	02/09/2000	
Subject	CONNECTION OF 189-170	5 TO 17 4KV BUS VI	A 152-1705					

Text SUMMARY:

THE PROPOSED ACTIVITY IS ADDING A NEW CIRCUIT INTERCONNECTION IN THE PLANT POWER DISTRIBUTION SYSTEM. PLANT 4KV BUS 17, VIA CIRCUIT BREAKER 152-1705 (FORMERLY SPARE) WILL NOW BE CAPABLE OF ALIGNMENT/CONNECTION TO THE 4KV WINDINGS OF TRANSFORMER 0X01. CIRCUIT BREAKER 152-1705 WILL BE CONNECTED TO INBT189-1705 AT SWITCH POSITION 1 (NEW CONNECTION), AND FROM SWITCH POSITION 3 ON TO THE 4KV WINDING OF TRANSFORMER 0X01. (AN EXISTING CONNECTION). THE CIRCUIT BREAKER 152-1705 WILL PROVIDE THE REQUIRED ISOLATION/INDEPENDENCE BETWEEN SAFETY RELATED 17 BUS AND THE NSR EQUIPMENT DOWNSTREAM. BREAKER 152-1705 WILL RECEIVE A TRIP SIGNAL ON U/V AND SIAS AS REQUIRED TO SUPPORT CIRCUIT INDEPENDENCE, IF THE BREAKER IS MANUALLY CLOSED AFTER THE GENERATION OF ONE OF THESE SIGNALS THE CONDITION WILL BE NOTED BY

OPERATION OF BREAKER 152-1705 IS LOCAL WITH NO AUTOMATIC OR REMOTE CLOSE SIGNALS. THIS BREAKER WILL COORDINATE WITH OTHER PROTECTIVE FEATURES ON BUS 17 TO ENSURE PROPER INDEPENDENCE PER IEEE 384-1981. A TRIP SIGNAL WILL BE RECEIVED ON A U/V OR SIAS ACTUATION TO SHED THIS LOAD AS REQUIRED FOR CIRCUIT INDEPENDENCE. A KEY LOCKED SWITCH IS PROVIDED TO BLOCK THIS SIGNAL, PLACING THIS SWITCH IN THE BLOCK POSITION WILL ANNUNCIATE AT 1C188 FOR AN ABNORMAL CONDITION AND WILL BE REPEATED IN THE CONTROL ROOM. PLACING THIS SWITCH IN THE BLOCK POSITION WILL RESULT IN THE 1 ALPHA DIESEL GENERATOR BEING OUT OF SERVICE IN MODES REQUIRING SIAS PROTECTION.

THIS ACTIVITY DOES NOT CREATE AN UNREVIEWED SAFETY QUESTION.

Associations Document	: Id	Do	с Тура	Revision To	Азвос	Status	
ES19980082	7-002	ESE)	0000	с		
Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
seoo4o9 Subject	50.59 INTEGRATED WORK MANAGEMENT ORGANIZATION	62 CHBNGE	0000	12/15/1999	12/15/1999	02/09/2000	

Date : 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

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Text SUMMARY:

THE PROPOSED ACTIVITY ESTABLISHES AN INTEGRATED WORK MANAGEMENT ORGANIZATION UNDER THE PLANT GENERAL MANAGER. THE NEW ORGANIZATION WILL IMPROVE RISK MANAGEMENT ACTIVITIES BY INSTITUTIONALIZING THE WAY WE ASSESS AND MANAGE RISK IN THE FOLLOWING AREAS: 1) NUCLEAR SAFETY; 2) INDUSTRIAL SAFETY; 3) RADIATION SAFETY; 4) ENVIRONMENTAL SAFETY; AND 5) CORPORATE RISK.

Association: Docume EN-1-100	nt Id			Doc Type NPIP	Revision To 1200	Assoc C	c Status
Document Id		Doc Type	Rev Statu	s Revision	Date Issued	Create Date	Modified Date
SE00410 Subject	VALUE ADDED PELLET	50.59 CRITICALITY ANALYSES	62	0000	12/16/1999	12/16/1999	02/09/2000
Text	SUMMARY:						
	CONDITIONS FOR STOR	OR, IN THE ICI RACKS, AGE OF ENCAPSULATED	, IN THE NEW FUEL FUEL IN ASSEMBLIES	INSPECTION PLATFORM.	AND IN THE SPENT FUEL CASK H Ages. Vap fuel is characteri	HANDLING CRANE. IN A	EL TRANSFER CARRIAGE AND UPENDER, IN DDITION, THIS ACTIVITY DETERMINES THE K HEIGHT DENSITY OF ~94% THEORETICAL
Associations	F						
Docume				Doc Type	Revision To	Assoc	: Status
ES199602	403-000			ESP	0000	c	
Document Id		Doc Type	Rev Statu	s Revision	Date Issued	Create Date	Modified Date
SE00411 Subject	REMOVE RELIEF VALVE	50.59 S 1/2-RV-105	62	0000	01/17/2000	01/12/2000	02/09/2000
Text	SUMMARY:						
	NECESSITATED THESE	VALVES. THESE PCV WE	ERE REMOVED UNDER	FCR 86-0116. THE PCV	CONTROL VALVES 1/2-PCV-502 AM V WERE TROUBLESOME AND LEAKED THIS ACTIVITY DOES NOT CONST	D HYDROGEN AND RAD-GA	SES FLOW OBTETCES ARE INSTALLED TO
Associations							
Docume				Doc Type	Revision To	λσεος	: Status
ES200000	040-000			ESP	0000	c	•
Document Id		Doc Type	Rev Statu	s Revision	Date Issued	Create Date	Modified Date
SE00144 Subject	APPROVE CHANGE TO I	72.48 SFSI USAR VOL I, APP	64 A. ENVIRONMENTAL 1	0000 Report response to NF	01/13/1999 C QUESTION ER-11 ITEM A	01/13/1999	07/26/1999
Text	SUMMARY:						
	RESPONSE TO NRC QUE: "AT LEAST QUARTERLY MONTHLY. THIS CHAN	SFSI USAR VOLUME I, A STION ER-11 ITEM. A. IN THE FOLLOWING SE GE RESOLVES A CONFLIC	CHANGE THE WORD INTENCE: TLDS WILL T BETWEEN THE ISF:	MONTHLY' TO L BE READ			

Associations

Assoc Status

Date : 02/09/2000

SAFETY EVALUATIONS: 12/1/98-1/31/00

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ocument Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
E00145 Subject	72.48	64		03/31/1999	03/16/1999	07/26/1999	
•	72.48 ADDRESSES CHANGES TO ECN 98 - 0516	5					
Text	SUMMARY:						
	THIS SAFETY EVALUATION ADDRESSES MODIFIC NUHOMS-24P DRY SHIELDED CANISTER (DSC). AFFECT THE FUNCTIONAL DESIGN OF THE DSC AFFECT FARRICATION DETAILS ASSOCIATED WI SHIELD PLUG COMPONENTS. THE DESIGN CHAN ASSEMBLY INCLUDE REMOVAL OF GUIDE SLEEVE TO THE BOTTOM SPACER DISK, ADDITION OF C ADDITION OF NOTCHED OPENINGS TO THE BOTT ARE NUMEROUS OTHER CHANGES BEING MADE TO INCLUDING CHANGES TO THE CONFINEMENT BOT VARIOUS DSC COMPONENT DIMENSIONS AND TOI MATERIALS TO BE USED DURING DSC FABRICAT LIFTING POST DETAIL, AND IDENTIFICATION THE DSC DESIGN DOCUMENTS ARE ALSO BEING WEST INC. AS THE NEW PATENT HOLDER OF TH TO CLARIFY CERTAIN DSC COMPONENT NAMES. CHANGES ARE TO BE IMPLEMENTED BEGINNING						
	PROPOSED CHANGES TO THE CALVERT CLIFFS I	SFSI USAR INCLUDE TH	E FOLLOWING:		· · · · · · · · · · · · · · · · · · ·		
	ADDITION OF A DESCRIPTION OF THE MODI DESIGN. THE USAR CHANGE WILL SPECIFI OF THE GUIDE SLEEVE CLIP ANGLE TO BOT ADDITION OF THE GUIDE SLEEVE EXTRACTI OPENINGS TO THE BOTTOM ENDS OF THE GU	CALLY DESCRIBE THE E TOM SPACER DISK WELD ON STOPS, AND ADDITI	LIMINATION OF				
	. THE LICENSING BASIS ALLOWABLE STRESS WILL BE ADDED TO THE USAR FOR COMPLET ALLOWABLE STRESSES ARE BASED ON ASME STRESSES USING THE WORST THERMAL COND REPORT.	ENESS. THE LICENSIN SECTION III DIVISION	G BASIS				
	. CLARIFY THAT THE EXISTING DCS COMPONE FOR MODIFIED DSCS BEGINNING WITH R 02 INFORMATION ONLY, AND THAT ANY CALCUL WITHIN THE LICENSING BASIS ALLOWABLE	5, THE TABULATED STR ATED DSC STRESSES MU	ESSES ARE FOR				
	. REFERENCE TO THE MODIFIED DSC SUPPORT	ING ANALYSES WILL BE	ADDED.				
	. TRANSNUCLEAR WEST INC. WILL BE IDENTI NUHOMS-24P PATENT.	FIED AS THE NEW OWNE	R OF THE				
	. CONSISTENT TERMINOLOGY FOR THE DSC SI WILL BE PROVIDED.	PHON AND VENT PORT C	OMPONENTS				
	. THE CALVERT CLIFFS NUHOMS-24P DSC DES REFLECT THE MODIFIED DSC DESIGN.	IGN DRAWINGS WILL BE	REVISED TO				
	AN INDEPENDENT ASSESSMENT OF THE NUHOMS- THE DSC INTERNAL BASKET ASSEMBLY MAY NOT DESIGN BASIS CASK DROP ACCIDENT. SPECIF BETWEEN THE GUIDE SLEEVES AND THE BOTTOM AND PUSH AGAINST THE WALL OF THE GUIDE S RESULTING GUIDE SLEEVE DEFORMATION COULD THE GUIDE SLEEVE AND THE SPENT NUCLEAR F WOULD NECESSITATE THE USE OF ADDITIONAL DURING POST ACCIDENT RECOVERY OPERATIONS TOLERABLE, IS UNDESIRABLE. THE MODIFIED ELIMINATES USE OF THE GUIDE SLEEVE CLIP ALLEVIATE THIS TYPE OF LOCAL GUIDE SLEEV EXTRACTION STOPS ARE TO BE ADDED SO THAT ASSEMBLY DOES BECOME STUCK, THE GUIDE SL TOGETHER WITH THE FUEL ASSEMBLY. THE RE ANGLES WILL ALLOW THE GUIDE SLEEVES TO R COVER PLATE. THEREFURE, THE BOTTOMS OF OUT IN ORDER TO FACILITATE DSC DRAINING.	PERFORM AS INTENDED ICALLY, THE CLIP ANG SPACER DISK COULD F LEEVES. IN SOME CAS ELIMINATE THE CLEAR UEL ASSEMBLY. THIS FORCE TO EXTRACT THE CONDITION, A DSC INTERNAL BASKET ANGLE ATTACHMENTS IN E DEFORMATION. GUID IN THE UNLIKELY EVE EVE WILL NOT BE WIT MOVAL OF THE GUIDE S EST FLUSH ON THE DSC THE GUIDE SLEEVES WI	DURING A LE ATTACHMENTS ALL IN BENDING ES THE ANCE BETWEEN INTERFERENCE FUEL ASSEMBLY ITHOUGH ASSEMBLY ORDER TO E SLEEVE NT THAT A FUEL HORAWN LEEVE CLIP BOTTOM INNER LL BE NOTCHED	•			

02/09/2000

Date :

OTHER DSC DESIGN CHANGES ARE DEEMED TO BE IMPROVEMENTS BASED ON TRANSMICLEAR WEST INC. DESIGN REVIEW ISSUES AND LESSONS LEARNED. THE CHANGES TO THE DSC CONFINEMENT BOUNDARY WELDS ARE INTENDED TO MINIMIZE BASE METAL DISTORTION. EASE FABRICATION, AND IMPROVE ALARA EXPOSURE DURING FIELD WELDING OPERATIONS. DSC DIMENSION AND TOLERANCE CHANGES ARE BEING IMPLEMENTED TO REFLECT TRANSNUCLEAR WEST INC. TOLERANCE STANDARDS, TO ENSURE CONSISTENCY WITH THE TOPICAL REPORT DESIGN, TO ENSURE THAT MINIMUM DESIGN SHIELDING REQUIRE-MENTS WILL BE MAINTAINED, AND TO FULFILL STRUCTURAL ENGINEERING EVALUATION RECOMMENDATIONS. THE TOP SHIELD PLUG LIFTING POST DETAIL IS BEING REVISED TO IMPROVE FABRICATION. INCORPORATION OF MATERIAL AND TESTING INFORMATION IN THE DSC FABRICATION DRAWINGS IS FOR CLARIFICATION OF FABRICATION REGIREMENTS.

THE MODIFICATIONS TO THE CALVERT CLIFFS NUMCONS-24P DSC INTERNAL BASKET ASSEMBLY THAT ARE INTENDED TO ALLEVIATE LOCAL GUIDE SLEEVE DEFORMATION DURING A DESIGN BASIS CASK DROP ACCIDENT, AND THE VARIOUS OTHER DSC DESIGN AND FABRICATION DETAIL IMPROVEMENTS, IMPLEMENTED UNDER THIS ACTIVITY, DO NOT RESULT IN AN UNREVIEWED SAFETY QUESTION (USQ). THE PROBABILITY OF OCCURRENCE OF A MALFUNCTION OF EQUIMENT IMPORTANT TO SAFETY WILL NOT BE INCREASED BY THIS ACTIVITY BECAUSE THE DSC MODIFICATIONS HAVE BEEN FULLY ANALYZED IN A MANNER CONSISTENT WITH USAR DESIGN CRITERIA, AND THE RESULTS OF THE ANALYSES WERE DETERMINED TO COMPLY WITH THE APPLICABLE USAR STRUCTURAL SPECIFICATIONS AND SER ACCEPTANCE CONDIFICNS. THE DSC MODIFICATIONS WILL NOT INCREASE THE PROBABILITY OF OCCURRENCE OF ANY ANALYZED ACCIDENT. THE CONSEQUENCES OF AN ACCIDENT WILL NOT BE INCREASED BECAUSE RADIOLOGICAL SHIELDING IS NOT ADVERSELY AFFECTED BY THIS BECAUSE RADIOLOGICAL SHIELDING IS NOT ADVERSELY AFFECTED BY THIS MODIFICATION, CRITICALITY CONTROL IS ASSURED, FUEL ROD INTEGRITY IS ASSURED, AND THE RETRIEVAL CAPABILITY OF AN INTACT FUEL ASSEMBLY IS ASSURED. THE NEW GUIDE SLEEVE EXTRACTION STOPS AND THE CHANGE IN THE BEHAVIOR OF EXISTING DSC COMPONENTS HAVE BEEN EVALUATED, AND IT HAS BEEN DETERMINED THAT THE CHANGES ARE CLEARLY BENEFICIAL. THE CRITICAL FUNCTIONS DETENSINED THAT THE CHANGES ARE CLEARLY BENEFICIAL, THE CRITICAL FUNCTIONS OF THE DSC WILL NOT BE ADVERSELY IMPACTED, AND THAT AN ACCIDENT OR MALFUNCTION OF A DIFFERENT TYPE THAN ANY EVALUATED FREVIOUSLY IN THE SAR IS NOT CREATED BY THE CHNGES. THE DSC MODIFICATIONS DO NOT REDUCE THE MARGIN OF SAFTY AS DEFINED IN THE BASIS FOR ANY ISFSI TECHNICAL SPECIFICATION. THE DSC MODIFICATIONS DO NOT INVOLVE A CHANGE IN DSC LOADING OPERATIONS, AND DO NOT ADVERSELY IMPACT DSC CONFINEMENT INTEGRITY, SHIELDING FEATURES, CRITICALITY CONTROL, OR FUEL RETRIEVABILITY, AND THEREFORE, WILL NOT RESULT IN ANY INCREASE IN OCCUPATIONAL DOSE. FINALLY, THIS ACTIVITY DOES NOT INVOLVE AN UNREVIEWED ENVIRONMENTAL IMPACT.

Associations

Document Id ES199900153-001		Doc Type ESP		Revision To A		ssoc Status	
				0000	c C	C	
ES199900720-000		ESI	?	0000	С		
Document Id	Doc Type	Rev Status	Revision	Date Issued	Create Date	Modified Date	
SE00150	72.48	64		10/25/1999	10/13/1999	01/28/2000	

Subject CHANGES TO PERIMITER FENCE ON ISFSI

Text

THIS SAFETY SCREEN EVALUATES THE FOLLOWING CHANGES TO THE USAR OF THE INDEPENDENT SPENT FUEL STORAGE INSTALLATION (ISFSI) LOCATED AT CALVERT CLIFFS NUCLEAR POWER PLANT:

1) THE ACCEPTABILITY TO INSTALL A NEW PERMANENT PERSONNEL GATE (LOCKED) IN THE WEST SIDE OF THE NUISANCE PERIMETER FENCE (THE OUTER FENCE) SURROUNDING THE ISFSI.

2) THE ACCEPTABILITY TO INSTALL A TEMPORARY SECURITY FENCE (WITH A LOCKED VEHICLE GATE), NUISANCE BARRIER, AND REMOTE INFRARED SECURITY SYSTEM. THIS TEMPORARY FENCE SYSTEM WILL BE ORIENTED IN THE EAST/WEST DIRECTION LOCATED APPROXIMATELY 27 FT., 47 FT. AND 37 FT. RESPECTIVELY, SOUTH OF EXISTING HORIZONTAL STORAGE MODULE (HSM) 2A AND 2B.

3) CORRECTION TO THE NUMBER SCHEME OF THE HSMS (ADMINISTRATIVE IN NATURE).

4) CORRECTION TO THE PHYSICAL LOCATION OF THE EXISTING VEHICLE GATE IN THE EAST SIDE OF THE PERIMETER FENCE (ADMINISTRATIVE IN NATURE).

SUMMARY:

REASON: CALVERT CLIFFS IS ADDING HSMS 3A AND 3B TO THE ISFSI (REFERENCE ENGINEERING PACKAGE ES199801283-000). CONSTRUCTION OF 3A AND 3B WILL REQUIRE THE DAILY ADMITTANCE OF CONSTRUCTION PERSONNEL INSIDE THE FENCED ISFSI PROTECTED AREA. DOING SO ALLOWS SUCH INDIVIDUALS ACCESS TO EXISTING AND FUEL LOADED HSM 1A, 1B, 2A AND 2B, WHICH IN TURN REQUIRES INCREASED SECURITY PERSONNEL TO MANAGE THESE INDIVIDUALS' ACTIVITIES. TO MANAGE THIS SITUATION, A TEMPORARY FENCE, NUISANCE BARRIER, AND REMOTE SENSING SYSTEM WILL BE INSTALLED JUST SOUTH OF HSM 2A AND 2B SO THE ISFSI PROTECTED AREA BOUNDARY CAN ROUTINELY BE COLLAPSED DURING CONSTRUCTION TO AN AREA MORE IMMEDIATELY SURROUNDING HSM 1A, 1B, 2A AND 2B. THIS WILL EASE THE NUMBER OF SECURITY PERSONNEL REQUIRED TO MONITOR CONSTRUCTION PERSONNEL ACTIVITIES AND WILL ALLOW

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MORE FREEDOM OF MOVEMENT FOR THE CONSTRUCTION PERSONNEL THEMSELVES. THE PERMANENT PERSONNEL GATE IN THE WEST SIDE OF THE NUISANCE PERIMETER FENCE SURROUNDING THE ISFSI IS BEING ADDED AT NUCLEAR SECURITY'S REQUEST IN ORDER TO ALLOW THEM ACCESS FLEXIBILITY. CURRENTLY ACCESS TO THE AREA BETWEEN THE PERIMETER NUISANCE FENCE (THE OUTER FENCE) AND THE SECURITY FENCE (THE INNER FENCE) WHERE THE REMOTE SENSING DEVICES ARE LOCATED IS THROUGH ONE LOCATION ONLY; THE VEHICLE-SIZED GATE LOCATED ON THE EAST SIDE. ACCESS TO THE OVERALL ISFSI PROTECTED AREA WILL STILL BE VIA ONE LOCATION ONLY, THE EXISTING EAST SIDE VEHICLE SIZE ACCESS GATE.

THE ABOVE ACTIVITIES DEVIATE FROM INFORMATION CURRENTLY REFLECTED IN THE ISFSI USAR FIGURES 1.2-1, 4.1-2 AND 2.4-1 AND THEREFORE REQUIRE A SAFETY EVALUATION.

THESE CHANGES DO NOT REPRESENT AN UNREVIEWED SAFETY QUESTION (USQ), A SIGNIFICANT INCREASE IN OCCUPATIONAL DOSE, OR AN UNREVIEWED ENVIRONMENTAL IMPACT.

THE PERIMETER FENCING SYSTEM IS A PASSIVE SYSTEM SURROUNDING THE HSMS WHOSE MAIN FUNCTION IS SECURITY (I.E., TO PREVENT UNAUTHORIZED PERSONNEL FROM ACCESSING THE HSMS). EXCEPT FOR "BLOCKAGE OF AIR INLETS AND OUTLETS" THE FENCE IS NOT CREDITED IN ANY ISFSI USAR CHAPTER & ACCIDENT ANALYSIS, PREVENTION ASSUMPTIONS, OR MITIGATIONS. IN THE CASE OF "BLOCKAGE OF AIR INLETS AND OUTLETS" THE PERIMETER FENCE ALONG WITH THE HSM AIR INLET AND OUTLET PHYSICAL SEPARATION AS CREDITED AS A CONTRIBUTOR TO "REDUCING THE POTENTIAL" THAT THE VENTS WILL BECOME BLOCKED BY ANY DEBRIS STIRRED UP BY A TORNADO. NO CALCULATIONS, ASSUMPTIONS, OR CREDI WAS TAKEN FOR THE FENCE STOPPING ANY PARTICULAR SIZE OR AMOUNT OF DEBRIS TRAVELING AT ANY PARTICULAR SPEED. IT IS JUST REFERENCED AS BEING PRESENT.

NO USQ RESULTS FROM:

- INSTALIATION OF THE PERMANENT PERSONNEL GATE BECAUSE IT WILL BE CONSTRUCTED OF EQUIVALENT MATERIAL, SIZE AND LOCATION AS THE EXISTING FENCE. - THE TEMPORARY FENCE SYSTEM BECAUSE THE ORIGINAL PERIMETER FENCE WILL REMAIN IN PLACE TO REDUCE THE POTENTIAL OF DEBRIS FROM ENTERING THE ISFSI. ANY DEBRIS BOUNDED INSIDE THE ISFSI BUT SOUTH OF THE TEMPORARY FENCE (I.E., THE CONSTRUCTION AREA OF HSM 3A AND 3B) WILL BE REDUCED FROM REACHING THE EXISTING HSMS BY THE EQUIVALENT TEMPORARY FENCE.

- CHANGES TO THE HEM NUMBER SYSTEM OR FIGURE CHANGE TO SHOW THE ACTUAL LOCATION OF THE EXISTING SECURITY GATE (EAST SIDE) AS THESE ARE ADMINISTRATIVE IN NATURE AND DO NOT CAUSE ANY MAJOR DEVIATIONS FROM THE ISFSI USAR.

A SIGNIFICANT INCREASE IN OCCUPATIONAL DOSE TO ISFSI USAR TABLE 7.4-1 DOES NOT OCCUR BECAUSE THE FENCE CHANGES DO NOT AFFECT THE ACTIVITIES LISTED IN TABLE 7.4-1.

A SIGNIFICANT UNREVIEWED ENVIRONMENTAL IMPACT DOES NOT RESULT FROM THESE CHANGES BECAUSE THE FOOTPRINT TO THE ISFSI IS NOT BEING ALTERED AND THE ENVIRONMENTAL IMPACT STATEMENT REQUIRES NO CHANGES.

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Text	SUMMARY:							
	THE PROPOSED ACTIVITY ESTABLISHES AN INTEGRATED WORK MANAGEMENT ORGANIZATION UNDER THE PLANT GENERAL MANAGER. THE NEW ORGANIZATION WILL IMPROVE RISK MANAGEMENT ACTIVITIES BY INSTITUTIONALIZING THE WAY WE ASSESS AND MANAGE RISK IN THE FOLLOWING AREAS: 1) NUCLEAR SAFETY; 2) INDUSTRIAL SAFETY; 3) RADIATION SAFETY; 4) ENVIRONMENTAL SAFETY; AND 5) CORPORATE RISK.							
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