

ACTION REQUEST 00155986

Type : NCR Orig Date: 04/08/05 14:25 Discovery Date: 04/08/05 13:15
Subject : CONCRETE SPALLING OF RB WALL

Description

PIECES OF CONCRETE FROM RB WALL WERE FOUND ON GRAOUND NEAR
BWST

Priority : 2 Report To : Status: COMPLETE 06/01/05
Due Date : 12/30/05 Event :

Originator : BANDHW Originator Group:
Facility : CR3 Department : 436 Organization:

Owed To : Owed To Group : ESSDUEVAL
Owed To Fac: CR3 Department : Discipline :

0174

ACTION REQUEST 00155986

Request Attribute	Value	Reqd	Date
1A POT'L OPER/REPORT	N	Y	04/08/05
Name :	WILLIAM BANDHAUER		

Request Attribute	Value	Reqd	Date
2 SUPERVISOR REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
2A CR VALID?	Y	Y	04/08/05
Name :	WILLIAM BANDHAUER		

Request Attribute	Value	Reqd	Date
2B FURTHER INVN REQD	N	Y	04/13/05
Name :	MERYLANNE GOTTERUP		

SEE 5B

Request Attribute	Value	Reqd	Date
2C RECOMMENDED OWNER	ENG	N	04/08/05
Name :	WILLIAM BANDHAUER		

Request Attribute	Value	Reqd	Date
2D OPER/REPORT ISSUE	N	Y	04/08/05
Name :	WILLIAM BANDHAUER		

ENGINEERING EVALUATED LIKELY SOURCE OF CONCRETE AND DETERMINED THAT THE RB REMAINS OPERABLE PER CONVERSATION WITH G. ENGLERT.

Request Attribute	Value	Reqd	Date
2E MAINT RULE APPLIC	Y	N	04/08/05
Name :	WILLIAM BANDHAUER		

Request Attribute	Value	Reqd	Date
2F SYSTEM	RB	Y	04/08/05
Name :	WILLIAM BANDHAUER		

ACTION REQUEST 00155986

Request Attribute	Value	Reqd	Date
3 OPERATIONS REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
3A IMMED REPT ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B OCR		N	
Name :			

Request Attribute	Value	Reqd	Date
3B1 OPER ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B2 REPORT ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B3 REW		N	
Name :			

Request Attribute	Value	Reqd	Date
3C TRACKING NUMBER		N	
Name :			

Request Attribute	Value	Reqd	Date
4 REG AFF REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
4A OPER/REPORT ISSUE	N	Y	04/08/05
Name : RONALD	BRIGHT		

Request Attribute	Value	Reqd	Date
4A1 OPER ISSUE	N	Y	04/08/05
Name : RONALD	BRIGHT		

Request Attribute	Value	Reqd	Date
4A2 REPORT ISSUE	N	Y	04/08/05
Name : RONALD	BRIGHT		

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Request Attribute	Value	Reqd	Date
4B FOLLOWUP ASG REQD	N	Y	04/08/05
Name :	RONALD BRIGHT		

Request Attribute	Value	Reqd	Date
4C T. SPEC VIOLATION	N	Y	04/08/05
Name :	RONALD BRIGHT		

Request Attribute	Value	Reqd	Date
4D ADD'L REPORT REQD	N	Y	04/08/05
Name :	RONALD BRIGHT		

Request Attribute	Value	Reqd	Date
4E PNSC/CSERB REQD	N	Y	04/08/05
Name :	RONALD BRIGHT		

Request Attribute	Value	Reqd	Date
5 CLASSIFN/ASSIGNMNT		N	
Name :			

Request Attribute	Value	Reqd	Date
5A CR VALID?	Y	Y	04/11/05
Name :	MERYLANNE GOTTERUP		

Request Attribute	Value	Reqd	Date
5B FURTHER INVN REQD	N	Y	04/13/05
Name :	GEORGE ENGLERT JR.		

NO FURTHER INVESTIGATION IS REQUIRED. BASED ON THE RESULTS OF INSPECTIONS PERFORMED BY ENGINEERING ON 4/8/05 AND MAINTENANCE DURING THE WEEKEND OF 4/9/05, THE SOURCE OF THE CONCRETE DEBRIS AND THE EQUIPMENT FAILURE APPEARS TO BE DEGRADED SECTIONS OF PREVIOUSLY PATCHED AREAS ON THE EXTERIOR REACTOR BUILDING WALL AND ROOF. THE APPARENT CAUSE OF THE FAILED CONCRETE PATCHES IS ATTRIBUTED TO "AGING/EXPECTED DETERIORATION" (CAUSE CODE: J7A) HASTENED BY "WEATHER-RELATED" (CAUSE CODE: K1) INFLUENCES. THE NIGHT BEFORE THE DISCOVERY OF THE CONCRETE DEBRIS, CR3 EXPERIENCED HIGH WINDS AND RAIN STORMS. CORRECTIVE ACTIONS TO BE TAKEN INCLUDE: (1) DEVELOP APPROPRIATE REPAIR PLAN. (ASSIGN TO MECHANICAL DESIGN ENGINEERING, DUE DATE: 6/1/05) AND (2) IMPLEMENT REPAIR PLAN. (ASSIGN TO MAINTENANCE, DUE DATE: 7/30/05. (G. ENGLERT, 4/13/05)

Request Attribute	Value	Reqd	Date
6 MISCELLANEOUS		N	
Name :			

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Request Attribute	Value	Reqd	Date
6A COMMENTS	NO NCON NEEDED	N	04/12/05
Name :	MERYLANNE GOTTERUP		

SUPERVISOR OF ENGINEERING MECH/STRUCT DESIGN HAS REVIEWED AND INDICATED THAT NO NCON ASSIGNMENT IS NEEDED FOR THIS NCR. MLG

Request Attribute	Value	Reqd	Date
6B COMMENTS		N	
Name :			

Request Attribute	Value	Reqd	Date
6C COMMENTS		N	
Name :			

Request Attribute	Value	Reqd	Date
6D COMMENTS		N	
Name :			

Request Attribute	Value	Reqd	Date
6E COMMENTS		N	
Name :			

Request Attribute	Value	Reqd	Date
6F SCHD ISS CLOS DT		N	
Name :			

Request Attribute	Value	Reqd	Date
6G EQUIP PRI ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
6H RESP MGR		N	
Name :			

Request Attribute	Value	Reqd	Date
6I EQUIP PRI STATUS		N	
Name :			

ACTION REQUEST APPROVAL REVIEW

Route List: 001				Route List Initiator: BANDHW			
	Alert			Send	Send	Action	Action
PASSPORT	Fac	Group/Type	Last Name	Date	Time	Taken	Date/Time
BANDHW	CR3	OPSSUPV	A BANDHAUER	04/08/05	14:28	APPROVED	04/08/05 14:31
BRIGHR01	CR3	REGREV	A BRIGHT	04/08/05	14:31	APPROVED	04/08/05 14:43
LOEHRM	CR3	UNITEVAL	A GOTTERUP	04/08/05	14:43	APPROVED	04/11/05 16:23

ACTION REQUEST 00155986

TREND-CAUSE

Facility: CR3 Trend 1: ACAUSE Trend 2: J Trend 3: J7A Date: 04/13/05
Process: N/A Org: ESSD Rank: E Assign:
Description: AGING/EXPECTED DETERIORATION

Facility: CR3 Trend 1: CCAUSE Trend 2: K Trend 3: K1 Date:
Process: N/A Org: N/A Rank: Assign:
Description: WEATHER-RELATED

Facility: CR3 Trend 1: CFC Trend 2: ER Trend 3: ER3 Date:
Process: N/A Org: N/A Rank: Assign:
Description: LONG-TERM EQUIPMENT RELIABILITY

Facility: CR3 Trend 1: EVENT Trend 2: EC Trend 3: EC8 Date:
Process: OP3 Org: N/A Rank: Assign:
Description: DEGRADED EQUIPMENT

ACTION REQUEST 00155986

ASSIGNMENT NUMBER 02 SUB

Type : INVN Due Date : 05/07/05
Status : CANCELED Reschedule : Pri Resp Group: ESDSUPV2
Assigned To : G ENGLERT JR. Sec Resp Group:
Subject : CONCRETE SPALLING: ADVERSE CONDITION INVESTIGATION

Aff Facility: CR3 Unit : System :
UCR : Schedule Ref :
Organization: Department : 476 Discipline :
Est Manhrs : Est Comp Date :

Assignment Attribute Value Reqd Date
EXTERNAL OE RECOMM Y
Name :

Assignment Attribute Value Reqd Date
INTERNAL OE RECOMM Y
Name :

Assignment Attribute Value Reqd Date
BENEFIT REALIZED N
Name :

Assignment Attribute Value Reqd Date
1 EVALUATOR/ASSIGNEE N
Name :

Assignment Attribute Value Reqd Date
1A COMMITTED N
Name :

Assignment Attribute Value Reqd Date
1B CHANGE BASIS CANCELED N 04/13/05
Name : MERYLANNE GOTTERUP

SEE ATTRIBUTE 5B FOR NFIR

Assignment Attribute Value Reqd Date
2 MISCELLANEOUS N
Name :

ACTION REQUEST 00155986

ASSIGNMENT NUMBER 05 SUB

Type : CORR Due Date : 06/01/05
Status : COMPLETE Reschedule : Pri Resp Group: ESDSUPV2
Assigned To : J LESE Sec Resp Group:
Subject : DEVELOP APPROPRIATE REPAIR PLAN FOR RB WALL

Aff Facility: CR3 Unit : System :
UCR : Schedule Ref :
Organization: Department : 476 Discipline :
Est Manhrs : Est Comp Date :

Assignment Attribute Value Reqd Date
BENEFIT REALIZED N
Name :

Assignment Attribute Value Reqd Date
1 UNIT/SECT EVALUATR N
Name :

Assignment Attribute Value Reqd Date
1A COMMITTED N
Name :

Assignment Attribute Value Reqd Date
1B CHANGE BASIS N
Name :

Assignment Attribute Value Reqd Date
2 MISCELLANEOUS N
Name :

Assignment Attribute Value Reqd Date
2A COMMENTS N
Name :

Assignment Attribute Value Reqd Date
2B COMMENTS N
Name :

Assignment Attribute Value Reqd Date
2C COMMENTS N
Name :

ACTION REQUEST 00155986

ASSIGNMENT NUMBER 10 SUB

Type : MREV Due Date : 05/04/05
Status : COMPLETE Reschedule : Pri Resp Group: ESSSUPV2
Assigned To : P ALLEN Sec Resp Group:
Subject : PERFORM MAINTENANCE RULE EVALUATION FOR RB WALL

Aff Facility: CR3 Unit : System :
UCR : Schedule Ref :
Organization: Department : 485 Discipline :
Est Manhrs : Est Comp Date :

Assignment Attribute	Value	Reqd	Date
1 FUNCTIONAL FAILURE	N	Y	04/19/05
Name :	PARKS ALLEN		

Assignment Attribute	Value	Reqd	Date
2 REPETITIVE FF	N	Y	04/19/05
Name :	PARKS ALLEN		

Assignment Attribute	Value	Reqd	Date
3 UNAVAILABILITY	N	Y	04/19/05
Name :	PARKS ALLEN		

Assignment Attribute	Value	Reqd	Date
4A RX TRIP OCCUR	N	Y	04/19/05
Name :	PARKS ALLEN		

Assignment Attribute	Value	Reqd	Date
4B SAFETY SYS ACTUAT	N	Y	04/19/05
Name :	PARKS ALLEN		

Assignment Attribute	Value	Reqd	Date
4C UNPLANNED CAP LOS	N	Y	04/19/05
Name :	PARKS ALLEN		

Assignment Attribute	Value	Reqd	Date
5 PERF CRIT EXCEEDED	N	Y	04/19/05
Name :	PARKS ALLEN		

Assignment Attribute	Value	Reqd	Date
6 MR DATABASE ENTRY	N	Y	04/19/05
Name :	PARKS ALLEN		

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Assignment Attribute Value		Reqd Date
7A PRI 1 NCR REQ	N	Y 04/19/05
Name : PARKS	ALLEN	

Assignment Attribute Value		Reqd Date
CHANGE BASIS		N
Name :		

Assignment Attribute Value		Reqd Date
7 RECOMMEND (A) (1)		N
Name :		

Assignment Attribute Value		Reqd Date
8 EQUIP. REFERENCE		N
Name :		

COMPLETION NOTES

CAUSE/ACTION

ASSIGNMENT COMPLETION APPROVAL

Route List: 001				Route List Initiator: ALLENP			
	Alert			Send	Send	Action	Action
PASSPORT Fac	Group/Type	Last Name		Date	Time	Taken	Date/Time
ALLENP	CR3 ESSSUPV2	A ALLEN		04/19/05	14:15	APPROVED	04/19/05 14:15
DYERKA		A DYER		04/19/05	14:15	APPROVED	04/19/05 16:42
LOEHRM	CR3 ESSSUEVAL	A GOTTERUP		04/19/05	16:42	APPROVED	04/20/05 08:52

ACTION REQUEST 00155986

ASSIGNMENT NUMBER 11 SUB

Type : CORR Due Date : 07/30/05
Status : COMPLETE Reschedule : Pri Resp Group: ESDSUPV2
Assigned To : J LESE Sec Resp Group:
Subject : IMPLEMENT REPAIR PLAN FOR RB WALL
Aff Facility: CR3 Unit : System :
UCR : Schedule Ref :
Organization: Department : 476 Discipline :
Est Manhrs : Est Comp Date :

DEVELOPED IN ASSIGNMENT 5 OF THIS NCR

Assignment Attribute Value	Reqd Date
BENEFIT REALIZED	N
Name :	
Assignment Attribute Value	Reqd Date
1 UNIT/SECT EVALUATR	N
Name :	
Assignment Attribute Value	Reqd Date
1A COMMITTED	N
Name :	
Assignment Attribute Value	Reqd Date
1B CHANGE BASIS	N
Name :	
Assignment Attribute Value	Reqd Date
2 MISCELLANEOUS	N
Name :	
Assignment Attribute Value	Reqd Date
2A COMMENTS	N
Name :	
Assignment Attribute Value	Reqd Date
2B COMMENTS	N
Name :	

"XYZ" was completed in the field on mm/dd/yy, or Material Evaluation was completed and approved on mm/dd/yy.

	DESCRIPTION	CORRECTIVE ACTION	TYPE Specify (CORL OR ENHN)*	ASSIGNEE/ CONCURRENCE	DUE OR COMPLETION DATE
ADVERSE CONDITION	Spalled concrete on side of Reactor Building	Implement a repair plan or monitor for future degradation	CORL	J.A. Lese	Completed by J.A. Lese on 3/7/2006. PM-156 will provide for future monitoring of the RB structure. See also AR 155986 and included corrective action plan.
OTHER	N/A				

* Designate which items are Long Term Corrective Action

ACTION REQUEST 00184396

Type : NCR Orig Date: 02/15/06 19:13 Discovery Date:
Subject : RB WALL CONCRETE SPALLS WERE FOUND ON THE ROOF.

Description

CONCRETE SPALLS FROM THE RB ROOF WERE FOUND ON THE
AUXIALLIARY BUILDING ROOF, THE THREE PIECES ARE
APPROXIMATELY 8 INCHES BY EIGHT INCHES EACH AND NO THICKER
THAN 1 IINCH WHICH TAPERS DOWN TO LESS THAN 1/16.

Priority : 3 Report To : Status: COMPLETE 04/17/06
Due Date : 06/30/06 Event Date :

Originator : PEPINR Originator Group:
Facility : CR3 Department : 607 Organization:

Owed To : Owed To Group : ESSDUEVAL
Owed To Fac: CR3 Department : Discipline :

AR Status History

Updated Date	Updated By	AR Status	AR Due Date
02/15/06	PEPINR	INPROG	
02/15/06	PEPINR	H/APPR	
02/16/06	LOEHRM		06/30/06
02/16/06	LOEHRM	PRE-APRV	
02/16/06	LOEHRM	APPROVED	
04/17/06	LOEHRM	COMPLETE	

ACTION REQUEST 00184396

Request Attribute	Value	Reqd	Date
1A POT'L OPER/REPORT	N	Y	02/15/06
Name : RICHARD	PEPIN		

Request Attribute	Value	Reqd	Date
1B EQUIPMENT RELATED	N	Y	02/16/06
Name : MERYLANNE	GOTTERUP		

Request Attribute	Value	Reqd	Date
2 SUPERVISOR REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
2A CR VALID?	Y	Y	02/15/06
Name : RICHARD	PEPIN		

Request Attribute	Value	Reqd	Date
2B FURTHER INVN REQD	Y	Y	02/15/06
Name : RICHARD	PEPIN		

CAP-NGGC-0200 is the official document for NCR processing
Priority 2 Include, at a minimum, the following information:

- " Inappropriate Act statement
- " work group involved in the inappropriate act
- " Apparent Cause and recommended cause code (reference CAP-NGGC-0206)
- " Completed Corrective Actions - CORR, and/or
- " Additional Corrective Actions if needed
- o recommended assignee
- o recommended due date

Priority 3 Include the following information:

- " Completed Corrective Actions - CORL, and/or
- " Additional Corrective Actions if needed
- o recommended assignee
- o recommended due date

Request Attribute	Value	Reqd	Date
2C RECOMMENDED OWNER	ENG	N	02/15/06
Name : RICHARD	PEPIN		

Request Attribute	Value	Reqd	Date
2D OPER/REPORT ISSUE	N	Y	02/15/06
Name : RICHARD	PEPIN		

Request Attribute	Value	Reqd	Date
2D1EQUIPMENT RELATED	N	Y	02/16/06
Name : MERYLANNE	GOTTERUP		

Request Attribute	Value	Reqd	Date
2E MAINT RULE APPLIC	Y	N	02/15/06
Name : RICHARD	PEPIN		

ACTION REQUEST 00184396

Request Attribute	Value	Reqd	Date
2F SYSTEM	MX	Y	02/16/06
Name :	MERYLANNE GOTTERUP		

Request Attribute	Value	Reqd	Date
3 OPERATIONS REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
3A IMMED REPT ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B OCR		N	
Name :			

Request Attribute	Value	Reqd	Date
3B1 OPER ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B2 REPORT ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B3 REW		N	
Name :			

Request Attribute	Value	Reqd	Date
3B4 GL 91-18		N	
Name :			

Request Attribute	Value	Reqd	Date
3C TRACKING NUMBER		N	
Name :			

Request Attribute	Value	Reqd	Date
4 REG AFF REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
4A OPER/REPORT ISSUE	N	Y	02/16/06
Name :	DENNIS HERRIN		

Request Attribute	Value	Reqd	Date
4A1 OPER ISSUE	N	Y	02/16/06
Name :	DENNIS HERRIN		

ACTION REQUEST 00184396

Request Attribute	Value	Reqd	Date
4A2 REPORT ISSUE	N	Y	02/16/06
Name : DENNIS	HERRIN		
Request Attribute	Value	Reqd	Date
4A3 REW	N	Y	02/16/06
Name : DENNIS	HERRIN		
Request Attribute	Value	Reqd	Date
4A4 GL 91-18	N	Y	02/16/06
Name : DENNIS	HERRIN		
Request Attribute	Value	Reqd	Date
4B FOLLOWUP ASG REQD	N	Y	02/16/06
Name : DENNIS	HERRIN		
Request Attribute	Value	Reqd	Date
4C T. SPEC VIOLATION	N	Y	02/16/06
Name : DENNIS	HERRIN		
Request Attribute	Value	Reqd	Date
4D ADD'L REPORT REQD	N	Y	02/16/06
Name : DENNIS	HERRIN		
Request Attribute	Value	Reqd	Date
4E PNSC/CSERB REQD	N	Y	02/16/06
Name : DENNIS	HERRIN		
Request Attribute	Value	Reqd	Date
5 CLASSIFN/ASSIGNMNT		N	
Name :			
Request Attribute	Value	Reqd	Date
5A CR VALID?	Y	Y	02/16/06
Name : MERYLANNE	GOTTERUP		
Request Attribute	Value	Reqd	Date
5B FURTHER INVN REQD	Y	Y	02/16/06
Name : MERYLANNE	GOTTERUP		
Request Attribute	Value	Reqd	Date
6 MISCELLANEOUS		N	
Name :			
Request Attribute	Value	Reqd	Date
6A COMMENTS		N	
Name :			

ACTION REQUEST 00184396

Request Attribute	Value	Reqd	Date
6B COMMENTS		N	
Name :			
Request Attribute	Value	Reqd	Date
6C COMMENTS		N	
Name :			
Request Attribute	Value	Reqd	Date
6D COMMENTS		N	
Name :			
Request Attribute	Value	Reqd	Date
6E COMMENTS		N	
Name :			
Request Attribute	Value	Reqd	Date
6F SCHD ISS CLOS DT		N	
Name :			
Request Attribute	Value	Reqd	Date
6G EQUIP PRI ISSUE		N	
Name :			
Request Attribute	Value	Reqd	Date
6H RESP MGR		N	
Name :			
Request Attribute	Value	Reqd	Date
6I EQUIP PRI STATUS		N	
Name :			

ACTION REQUEST APPROVAL REVIEW

Route List: 001	Route List Initiator: PEPINR
Alert	Send Send Action Action
PASSPORT Fac Group/Type Last Name	Date Time Taken Date/Time
PEPINR CR3 MNTMSUPV A PEPIN	02/15/06 19:13 APPROVED 02/15/06 19:19
HERRID CR3 REGREV A HERRIN	02/15/06 19:19 APPROVED 02/16/06 04:50
LOEHRM CR3 UNITEVAL A GOTTERUP	02/16/06 04:50 APPROVED 02/16/06 10:28

TREND-CAUSE

Facility: CR3 Trend 1: EVENT Trend 2: EC Trend 3: EC15 Date:
 Process: OP3 Org: N/A Rank: Assign:
 Description: EXTERNAL EVENT (FLOOD, STORM, SEISMIC)

Keywords

Keyword	Keyword Description
FACILITY	FACILITIES
CFGCTRL	CONFIGURATION CONTROL

ACTION REQUEST 00184396

ASSIGNMENT NUMBER 10 SUB

Type : MREV Due Date : 03/30/06
 Status : COMPLETE Reschedule : 1 Pri Resp Group: ESSSUPV2
 Assigned To : P PETERSON Sec Resp Group:
 Subject : PERFORM MAINTENANCE RULE EVALUATION FOR MX SYSTEM

Aff Facility: CR3 Unit : 3 System : MX
 UCR : Schedule Ref :
 Organization: Department : 485 Discipline :
 Est Manhrs : Est Comp Date :

Assignment Status History

Updated Date	Updated By	Assgn Status	Assgn Due Date
02/15/06	PEPINR	INPROG	
02/16/06	LOEHRM		03/03/06
02/16/06	LOEHRM	NTFY/PRI	
02/16/06	ALLENP	ACC/PRI	
02/16/06	ALLENP	NTFY/ASG	
02/16/06	PETERP	ACC/ASG	
02/27/06	LOEHRM		03/30/06
03/28/06	PETERP	AWAIT/C	
03/29/06	ALLENP	ACC/ASG	
03/30/06	PETERP	AWAIT/C	
04/03/06	LOEHRM	COMPLETE	

RB WALL CONCRETE SPALLS WERE FOUND ON THE ROOF.

Assignment Attribute	Value	Reqd	Date
CHANGE BASIS	EXTEND 3/30/06	N	02/27/06
Name :	PATRICK PETERSON		

Extend the MREV until the investigation is completed to determine the impact on the Structural Maintenance Rule.

Assignment Attribute	Value	Reqd	Date
1 FUNCTIONAL FAILURE	N	Y	03/28/06
Name :	PATRICK PETERSON		

Assignment Attribute	Value	Reqd	Date
2 REPETITIVE FF	N	Y	03/28/06
Name :	PATRICK PETERSON		

Assignment Attribute	Value	Reqd	Date
3 UNAVAILABILITY	N	Y	03/28/06
Name :	PATRICK PETERSON		

Assignment Attribute	Value	Reqd	Date
4A RX TRIP OCCUR	N	Y	03/28/06
Name :	PATRICK PETERSON		

ACTION REQUEST 00184396

Assignment Attribute Value	Reqd Date
4B SAFETY SYS ACTUAT N	Y 03/28/06
Name : PATRICK PETERSON	

Assignment Attribute Value	Reqd Date
4C UNPLANNED CAP LOS N	Y 03/28/06
Name : PATRICK PETERSON	

Assignment Attribute Value	Reqd Date
5 PERF CRIT EXCEEDED N	Y 03/28/06
Name : PATRICK PETERSON	

Assignment Attribute Value	Reqd Date
6 MR DATABASE ENTRY N	Y 03/28/06
Name : PATRICK PETERSON	

Assignment Attribute Value	Reqd Date
7 RECOMMEND (A) (1)	N
Name :	

Assignment Attribute Value	Reqd Date
7A PRI 1 NCR REQ N	Y 03/28/06
Name : PATRICK PETERSON	

Assignment Attribute Value	Reqd Date
8 EQUIP. REFERENCE	N
Name :	

COMPLETION NOTES

CAUSE/ACTION

ASSIGNMENT COMPLETION APPROVAL

Route List: 001	Route List Initiator: PETERP
Alert	Send Send Action Action
PASSPORT Fac Group/Type Last Name	Date Time Taken Date/Time
ALLENP CR3 ESSSUPV2 A ALLEN	03/28/06 14:20 RETURNED 03/29/06 17:18
ALLENP CR3 ESSSUPV2 A ALLEN	03/30/06 11:57 APPROVED 03/30/06 17:02
BARBIL I BARBIERI	03/30/06 11:57
LOEHRM CR3 ESSSUEVAL A GOTTERUP	03/30/06 17:02 APPROVED 04/03/06 08:47

ACTION REQUEST 00184396

ASSIGNMENT NUMBER 18 SUB

Type : INVN Due Date : 03/15/06
Status : COMPLETE Reschedule : Pri Resp Group: ESDSUPV2
Assigned To : J LESE Sec Resp Group:
Subject : PRI 3 INVN: RB WALL CONCRETE SPALL FOUND ON ROOF OF AUX

Aff Facility: CR3 Unit : 3 System :
UCR : Schedule Ref :
Organization: Department : 476 Discipline :
Est Manhrs : Est Comp Date :

Assignment Status History

Updated Date	Updated By	Assgn Status	Assgn Due Date
02/15/06	PEPINR	INPROG	
02/16/06	LOEHRM		03/15/06
02/16/06	LOEHRM	NTFY/PRI	
02/16/06	ENGLEG	ACC/PRI	
02/16/06	ENGLEG	NTFY/ASG	
03/07/06	LESEJO	ACC/ASG	
03/07/06	LESEJO	AWAIT/C	
03/07/06	LOEHRM	COMPLETE	

Assignment Attribute Value Reqd Date
BENEFIT REALIZED N
Name :

Assignment Attribute Value Reqd Date
EXTERNAL OE RECOMM N Y 03/07/06
Name : JOSEPH LESE

Assignment Attribute Value Reqd Date
INTERNAL OE RECOMM N Y 03/07/06
Name : JOSEPH LESE

Assignment Attribute Value Reqd Date
1 EVALUATOR/ASSIGNEE N
Name :

Assignment Attribute Value Reqd Date
1A COMMITTED N
Name :

Assignment Attribute Value Reqd Date
1B CHANGE BASIS N
Name :

Assignment Attribute Value Reqd Date
2 MISCELLANEOUS N
Name :

ACTION REQUEST 00184396

Type : NCR Orig Date: 02/15/06 19:13 Discovery Date:
Subject : RB WALL CONCRETE SPALLS WERE FOUND ON THE ROOF.

Description
CONCRETE SPALLS FROM THE RB ROOF WERE FOUND ON THE
AUXIALLIARY BUILDING ROOF, THE THREE PIECES ARE
APPROXIMATELY 8 INCHES BY EIGHT INCHES EACH AND NO THICKER
THAN 1 IINCH WHICH TAPERS DOWN TO LESS THAN 1/16.

Priority : 3 Report To : Status: COMPLETE 04/17/06
Due Date : 06/30/06 Event Date :
Originator : PEPINR Originator Group:
Facility : CR3 Department : 607 Organization:
Owed To : Owed To Group : ESSDUEVAL
Owed To Fac: CR3 Department : Discipline :

AR Status History

Updated Date	Updated By	AR Status	AR Due Date
02/15/06	PEPINR	INPROG	
02/15/06	PEPINR	H/APPR	
02/16/06	LOEHRM		06/30/06
02/16/06	LOEHRM	PRE-APRV	
02/16/06	LOEHRM	APPROVED	
04/17/06	LOEHRM	COMPLETE	

ACTION REQUEST 00184396

Request Attribute	Value	Reqd Date
1A POT'L OPER/REPORT	N	Y 02/15/06
Name : RICHARD	PEPIN	

Request Attribute	Value	Reqd Date
1B EQUIPMENT RELATED	N	Y 02/16/06
Name : MERVLANNE	GOTTERUP	

Request Attribute	Value	Reqd Date
2 SUPERVISOR REVIEW		N
Name :		

Request Attribute	Value	Reqd Date
2A CR VALID?	Y	Y 02/15/06
Name : RICHARD	PEPIN	

Request Attribute	Value	Reqd Date
2B FURTHER INVN REQD	Y	Y 02/15/06
Name : RICHARD	PEPIN	

CAP-NGGC-0200 is the official document for NCR processing
Priority 2 Include, at a minimum, the following information:

- " Inappropriate Act statement
- " work group involved in the inappropriate act
- " Apparent Cause and recommended cause code (reference CAP-NGGC-0206)
- " Completed Corrective Actions - CORR, and/or
- " Additional Corrective Actions if needed
- o recommended assignee
- o recommended due date

Priority 3 Include the following information:

- " Completed Corrective Actions - CORL, and/or
- " Additional Corrective Actions if needed
- o recommended assignee
- o recommended due date

Request Attribute	Value	Reqd Date
2C RECOMMENDED OWNER	ENG	N 02/15/06
Name : RICHARD	PEPIN	

Request Attribute	Value	Reqd Date
2D OPER/REPORT ISSUE	N	Y 02/15/06
Name : RICHARD	PEPIN	

Request Attribute	Value	Reqd Date
2D1EQUIPMENT RELATED	N	Y 02/16/06
Name : MERVLANNE	GOTTERUP	

Request Attribute	Value	Reqd Date
2E MAINT RULE APPLIC	Y	N 02/15/06
Name : RICHARD	PEPIN	

ACTION REQUEST 00184396

Request Attribute	Value	Reqd	Date
2F SYSTEM	MX	Y	02/16/06
Name :	MERYLANNE GOTTERUP		

Request Attribute	Value	Reqd	Date
3 OPERATIONS REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
3A IMMEDIATE ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B OCR		N	
Name :			

Request Attribute	Value	Reqd	Date
3B1 OPER ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B2 REPORT ISSUE		N	
Name :			

Request Attribute	Value	Reqd	Date
3B3 REW		N	
Name :			

Request Attribute	Value	Reqd	Date
3B4 GL 91-18		N	
Name :			

Request Attribute	Value	Reqd	Date
3C TRACKING NUMBER		N	
Name :			

Request Attribute	Value	Reqd	Date
4 REG AFF REVIEW		N	
Name :			

Request Attribute	Value	Reqd	Date
4A OPER/REPORT ISSUE	N	Y	02/16/06
Name :	DENNIS HERRIN		

Request Attribute	Value	Reqd	Date
4A1 OPER ISSUE	N	Y	02/16/06
Name :	DENNIS HERRIN		

ACTION REQUEST 00184396

Request Attribute	Value	Reqd	Date
4A2 REPORT ISSUE	N	Y	02/16/06
Name : DENNIS	HERRIN		

Request Attribute	Value	Reqd	Date
4A3 REW	N	Y	02/16/06
Name : DENNIS	HERRIN		

Request Attribute	Value	Reqd	Date
4A4 GL 91-18	N	Y	02/16/06
Name : DENNIS	HERRIN		

Request Attribute	Value	Reqd	Date
4B FOLLOWUP ASG REQD	N	Y	02/16/06
Name : DENNIS	HERRIN		

Request Attribute	Value	Reqd	Date
4C T. SPEC VIOLATION	N	Y	02/16/06
Name : DENNIS	HERRIN		

Request Attribute	Value	Reqd	Date
4D ADD'L REPORT REQD	N	Y	02/16/06
Name : DENNIS	HERRIN		

Request Attribute	Value	Reqd	Date
4E PNSC/CSERB REQD	N	Y	02/16/06
Name : DENNIS	HERRIN		

Request Attribute	Value	Reqd	Date
5 CLASSIFY/ASSIGNMNT		N	
Name :			

Request Attribute	Value	Reqd	Date
5A CR VALID?	Y	Y	02/16/06
Name : MERYLANNE	GOTTERUP		

Request Attribute	Value	Reqd	Date
5B FURTHER INVN REQD	Y	Y	02/16/06
Name : MERYLANNE	GOTTERUP		

Request Attribute	Value	Reqd	Date
6 MISCELLANEOUS		N	
Name :			

Request Attribute	Value	Reqd	Date
6A COMMENTS		N	
Name :			

ACTION REQUEST 00184396

Request Attribute	Value	Reqd Date
6B COMMENTS Name :		N
6C COMMENTS Name :		N
6D COMMENTS Name :		N
6E COMMENTS Name :		N
6F SCHED ISS CLOS DT Name :		N
6G EQUIP PRI ISSUE Name :		N
6H RESP MGR Name :		N
6I EQUIP PRI STATUS Name :		N

ACTION REQUEST APPROVAL REVIEW

Route List: 001				Route List Initiator: PEPINR			
Alert	Send	Send	Action	Action			
PASSPORT Fac Group/Type Last Name	Date	Time	Taken	Date/Time			
PEPINR CR3 MNTMSUPV A PEPIN	02/15/06	19:13	APPROVED	02/15/06	19:19		
HERRID CR3 REGREV A HERRIN	02/15/06	19:19	APPROVED	02/16/06	04:50		
LOEHRM CR3 UNITEVAL A GOTTERUP	02/16/06	04:50	APPROVED	02/16/06	10:28		

TREND-CAUSE

Facility: CR3 Trend 1: EVENT Trend 2: EC Trend 3: EC15 Date:
 Process: OP3 Org: N/A Rank: Assign:
 Description: EXTERNAL EVENT (FLOOD, STORM, SEISMIC)

Keywords	Keyword	Description
FACILITY	FACILITIES	
CFGCTRL	CONFIGURATION CONTROL	

ACTION REQUEST 00184396

ASSIGNMENT NUMBER 10 SUB

Type : MREV Due Date : 03/30/06
 Status : COMPLETE Reschedule : 1 Pri Resp Group: ESSSUPV2
 Assigned To : P PETERSON Sec Resp Group:
 Subject : PERFORM MAINTENANCE RULE EVALUATION FOR MX SYSTEM
 Aff Facility: CR3 Unit : 3 System : MX
 UCR : Schedule Ref :
 Organization: Department : 485 Discipline :
 Est Manhrs : Est Comp Date :

Assignment Status History

Updated Date	Updated By	Assgn Status	Assgn Due Date
02/15/06	PEPINR	INPROG	
02/16/06	LOEHRM		03/03/06
02/16/06	LOEHRM	NTFY/PRI	
02/16/06	ALLENP	ACC/PRI	
02/16/06	ALLENP	NTFY/ASG	
02/16/06	PETERP	ACC/ASG	
02/27/06	LOEHRM		03/30/06
03/28/06	PETERP	AWAIT/C	
03/29/06	ALLENP	ACC/ASG	
03/30/06	PETERP	AWAIT/C	
04/03/06	LOEHRM	COMPLETE	

RB WALL CONCRETE SPALLS WERE FOUND ON THE ROOF.

Assignment Attribute	Value	Reqd	Date
CHANGE BASIS	EXTEND 3/30/06	N	02/27/06
Name :	PATRICK PETERSON		

Extend the MREV until the investigation is completed to determine the impact on the Structural Maintenance Rule.

Assignment Attribute	Value	Reqd	Date
1 FUNCTIONAL FAILURE	N	Y	03/28/06
Name :	PATRICK PETERSON		

Assignment Attribute	Value	Reqd	Date
2 REPETITIVE FF	N	Y	03/28/06
Name :	PATRICK PETERSON		

Assignment Attribute	Value	Reqd	Date
3 UNAVAILABILITY	N	Y	03/28/06
Name :	PATRICK PETERSON		

Assignment Attribute	Value	Reqd	Date
4A RX TRIP OCCUR	N	Y	03/28/06
Name :	PATRICK PETERSON		

ACTION REQUEST 00184396

ASSIGNMENT NUMBER 18 SUB

Type : INVN Due Date : 03/15/06
 Status : COMPLETE Reschedule : Pri Resp Group: ESDSUPV2
 Assigned To : J LESE Sec Resp Group:
 Subject : PRI 3 INVN: RB WALL CONCRETE SPALL FOUND ON ROOF OF AUX
 Aff Facility: CR3 Unit : 3 System :
 UCR : Schedule Ref :
 Organization: Department : 476 Discipline :
 Est Manhrs : Est Comp Date :

Assignment Status History

Updated Date	Updated By	Assgn Status	Assgn Due Date
02/15/06	PEPINR	INPROG	
02/16/06	LOEHRM		03/15/06
02/16/06	LOEHRM	NTFY/PRI	
02/16/06	ENGLEG	ACC/PRI	
02/16/06	ENGLEG	NTFY/ASG	
03/07/06	LESEJO	ACC/ASG	
03/07/06	LESEJO	AWAIT/C	
03/07/06	LOEHRM	COMPLETE	

Assignment Attribute Value

BENEFIT REALIZED Name : Reqd Date N

Assignment Attribute Value

EXTERNAL OE RECOMM Name : JOSEPH LESE Reqd Date Y 03/07/06

Assignment Attribute Value

INTERNAL OE RECOMM Name : JOSEPH LESE Reqd Date Y 03/07/06

Assignment Attribute Value

1 EVALUATOR/ASSIGNEE Name : Reqd Date N

Assignment Attribute Value

1A COMMITTED Name : Reqd Date N

Assignment Attribute Value

1B CHANGE BASIS Name : Reqd Date N

Assignment Attribute Value

2 MISCELLANEOUS Name : Reqd Date N

ACTION REQUEST 00184396

Assignment Attribute Value	Reqd Date
2A COMMENTS	N
Name :	
Assignment Attribute Value	Reqd Date
2B COMMENTS	N
Name :	
Assignment Attribute Value	Reqd Date
2C COMMENTS	N
Name :	
Assignment Attribute Value	Reqd Date
2D COMMENTS	N
Name :	
Assignment Attribute Value	Reqd Date
2E COMMENTS	N
Name :	

COMPLETION NOTES
 SEE DETAILED WRITE-UP UNDER IN PROGRESS NOTES. (J.A.
 LESE)

CAUSE/ACTION

ASSIGNMENT COMPLETION APPROVAL

Route List: 001	Route List Initiator: LESEJO
Alert	Send Send Action Action
PASSPORT-Fac Group/Type Last Name	Date Time Taken Date/Time
ENGLER CR3 ESDSUPV2 A ENGLERT JR.	03/07/06 12:53 APPROVED 03/07/06 12:58
LOEHRM CR3 ESSSUEVAL A GOTTERUP	03/07/06 12:58 APPROVED 03/07/06 13:10

ATTACHMENT 10
Sheet 1 of 1
Adverse Condition Correct and Trend Form (CAT)

Form CAP-NGGC-0200-10-16

Action Request Number: 184396

Investigator:

Joe A. Lese

1. Event Description

- Using information provided in the NCR, identify the problem to be investigated.

A small piece of concrete spalled from the side of the Reactor Building and fell to the Auxiliary Building roof below. An engineering walkdown of the area near Buttress #5 (Auxiliary Building roof at the RB Vent Stack) has been conducted and no additional spalling issues are apparent. It is suspected that a recent period of unusually cold weather has contributed to cracking in a localized area near the lower edge of one of the concrete panel sections, which resulted in a small section of concrete coming loose.

The section is relatively small in size with minimal thickness. No reinforcement has been exposed and it does not appear to be indicative of a common cause type failure nor do any adjacent sections of concrete appear to be susceptible to additional degradation.

Preventive Maintenance procedure PM-156, Visual Inspection of Plant Structures, provides for the periodic monitoring of the structural elements of the plant, including concrete structures. Continued monitoring of the exterior condition of the Reactor Building will be encompassed by this procedure.

As documented previously under AR 155986 wherein a small section of concrete spalled after severe weather, this condition does not appear to be indicative of a widespread concern. The completed engineering walkdown coupled with continued monitoring under the PM-156 program serve as the completed actions to date with no new corrective actions being required.

The apparent cause of this issue appears to be aging/expected deterioration (cause code J7A) hastened by weather related effects (cause code K1).

2. Corrective Action Plan

- For completed or interim actions, provide appropriate completion documentation or ensure that the investigation results contain adequate detail to ensure traceability, for example; Work Order "ABC" was completed and finished on mm/dd/yy, Engineering Change Request

NRC Questions from 10/22 (assigned to G.Pugh):

Question #2 (Request Number 8)

NRC Question:

Any information on significant repairs (concrete related) between buttress 3 and 4 from original construction to today.

CR3 Response:

Performed a search of the document control system, both the SEEK system and historical QA records. Looked for any Work Orders, NCRs, Correspondence, or other documents using the keywords "concrete repair" and "concrete crack." There were several "hits" on these key words. The majority of these "hits" were screened away by reviewing the title of the document. Any "hits" where the title was not clear were reviewed individually. The results were several AR's and Work Orders to repair damaged or cracked concrete on the RB containment. However, none of the items reviewed were in the area of concern.

In addition, conversations were held with several people in maintenance and engineering, including one person that was employed in the early 1970's. No one could remember making any repairs on the RB shell concrete in the area of interest. No modifications could be identified.

Conclude that the concrete between buttress 3 and 4 is original construction.

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Search Criteria

Search Results (16 records found)

Record No	Facility	Unit	Doc Type	Doc Nbr	Sheet Nbr	Rev Nbr	Minor Rev	Doc Date	Doc Title
00000000094006	CR3		AR	00081794				01/31/2003	SAB W. DOOR HANDRAIL HAS BECOME DETACHED FROM THE CONCRETE
000000002899534	CR3		AR	00091019				07/22/2003	CONCRETE SLUDGE ENTERS CR3 STORM DRAIN SYSTEM
000000002912578	CR3		AR	00099147				08/18/2003	CONCRETE DEFICIENCIES FOUND IN RVCH STORAGE BUILDING
000000002922537	CR3		AR	00103171				09/03/2003	SPALLED CONCRETE RECORDED DURING SP-208 VISUAL ON DHR-16
000000002946225	CR3		AR	00036167				10/16/2003	99-3482 A CRACKED SECTION OF CONCRETE HAS BEEN REMOVED FROM
000000002950099	CR3		AR	00107955				10/23/2003	FAILED CLASS I CONCRETE COATINGS IN RB
000000003279242	CR3		AR	00155986				06/01/2005	CONCRETE SPALLING OF RB WALL
000000003459256	CR3		AR	00184396				04/17/2006	RB WALL CONCRETE SPALLS WERE FOUND ON THE ROOF.
000000003724253	CR3		AR	00244731		000		09/04/2007	BASEPLATE INSTALLED OVER A CONCRETE SPALL
000000003956583	CR3		AR	00258477		000		10/01/2008	CONCRETE COLUMN IN SEAWATER ROOM HAS CRACKS AT BASE
000000004047775	CR3		AR	00050458		000		02/12/2009	WATER LEAKING FROM CONCRETE NEAR CWP-1D
000000004077144	CR3		AR	00327173		000		03/26/2009	OTSG RETIREMENT STRUCTURE CONCRETE WALL POUR
000000004128179	CR3		AR	00329963		000		05/04/2009	CONCRETE SEAL SLAB INSTALLATION WO 1305629 TASK 03
000000004160428	CR3		AR	00275724		000		08/10/2009	CRACKED CONCRETE SUPPORT PADS IN SEAWATER ROOM
000000004189403	CR3		AR	00183501		000		03/28/2009	CONCRETE FOUND IN RB 119'
000000004211710	CR3		AR	00254820		000		10/14/2009	SL I CONCRETE COATINGS CANHOT BE APPLIED R15

Using SEEK document service and using the NCR/AR document search with "concrete" in the title the above "hits" were identified. Only two had relevance to the RB structure. These are AR's 00155986 and 00184396. These two AR's are printed out and included in the folder.

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Search Criteria

Search Results (27 records found)

Record No	Facility Unit	Doc Type	Doc Nbr	Sheet Nbr	Rev Nbr	Minor Rev	Doc Date	Doc Title
000000002894533	CR3	CORR	1.02.8				01/01/1975	REACTOR BUILDING - INTERNAL STRUCTURES - STEEL CONNECTIONS TO CONCRETE (BOOK I)
000000002894538	CR3	CORR	1.02.19				01/01/1975	REACTOR BUILDING - INTERNAL STRUCTURES - CONCRETE FLOORS (BOOK IV)
000000002895003	CR3	CORR	2.01.17				01/01/1975	AUXILIARY BUILDING STRUCTURE - SEISMIC ANALYSIS OF CONCRETE STRUCTURE (BOOK IV)
000000002895003	CR3	CORR	2.01.13				01/01/1975	TURBINE BUILDING - CONCRETE FOUNDATION PLAN (BOOK II)
000000002895085	CR3	CORR	3.01.14				01/01/1975	TURBINE BUILDING - CONCRETE COMBINED COL FTG & MAT FDN FTG ALONG COL LINE 301 & 302 (BOOK II)
000000002895087	CR3	CORR	3.01.15				01/01/1975	TURBINE BUILDING - CONCRETE COMBINED COLUMN & MAT FDN BASEMENT SLAB REINFORCEMENT WEST SIDE (BOOK II)
000000002895088	CR3	CORR	3.01.16				01/01/1975	TURBINE BUILDING - CONCRETE NORTHWEST CORNER EQUIPMENT LOADS AND LOCATION (BOOK II)
000000002895084	CR3	CORR	3.01.17				01/01/1975	TURBINE BUILDING - CONCRETE BASEMENT SLAB LOADING CONDITION COLUMN LINE F (BOOK III)
000000002895095	CR3	CORR	3.01.18				01/01/1975	TURBINE BUILDING - CONCRETE COLUMN PLASTER PLAN AT EL 114 FT (BOOK III)
000000002895120	CR3	CORR	3.01.21				01/01/1975	TURBINE BUILDING - CONCRETE COLUMN FOUNDATIONS (BOOK III)
000000002895126	CR3	CORR	3.01.22				01/01/1975	TURBINE BUILDING - CONCRETE H.P. AIR SHAFT DUCT ALONG COL. LINE A SEC. 4-4 AND 5-5 (BOOK III)
000000002895257	CR3	CORR	8.01.10				01/01/1975	MISCELLANEOUS CALCULATIONS AUXILIARY BUILDING CONCRETE PLUG (BOOK I)
000000002895259	CR3	CORR	8.01.12				01/01/1975	MISCELLANEOUS CALCULATIONS AUXILIARY STEAM LINE CONCRETE ANCHOR AND MANHOLE (BOOK I)
000000002895270	CR3	CORR	8.01.22				01/01/1975	MISCELLANEOUS CALCULATIONS TURBINE BUILDING CONCRETE CHECKS AND MODIFICATIONS (BOOK I)
000000002895560	CR3	CORR	2.01.58				01/01/1975	INTERMEDIATE BUILDING REINF. CONCRETE (DESIGN REVIEW)
000000004030444	CR3	CORR	1.02.8			001	01/01/1975	REACTOR BUILDING - INTERNAL STRUCTURES - STEEL CONNECTIONS TO CONCRETE (BOOK I) - SUPPLEMENT TO RMS 2894833
000000004030465	CR3	CORR	1.02.19			001	01/01/1975	REACTOR BUILDING - INTERNAL STRUCTURES - CONCRETE FLOORS (BOOK IV) - SUPPLEMENT TO RMS 2894923
000000004030477	CR3	CORR	2.01.17			001	01/01/1975	AUXILIARY BUILDING STRUCTURE - SEISMIC ANALYSIS OF CONCRETE STRUCTURE (BOOK IV) - SUPPLEMENT TO RMS 2895003
000000004030488	CR3	CORR	2.01.13			001	01/01/1975	TURBINE BUILDING - CONCRETE FOUNDATION PLAN (BOOK II) - SUPPLEMENT
000000004030663	CR3	CORR	3.01.14			001	01/01/1975	TURBINE BUILDING - CONCRETE COMBINED COL FTG & MAT FDN FTG ALONG COL LINE 301 & 302 (BOOK II) - SUPPLEMENT
000000004030664	CR3	CORR	3.01.15			001	01/01/1975	TURBINE BUILDING - CONCRETE COMBINED COLUMN & MAT FDN BASEMENT SLAB REINFORCEMENT WEST SIDE (BOOK II) - SUPPLEMENT
000000004030667	CR3	CORR	3.01.16			001	01/01/1975	TURBINE BUILDING - CONCRETE NORTHWEST CORNER EQUIPMENT LOADS AND LOCATION (BOOK II) - SUPPLEMENT
000000004030667	CR3	CORR	3.01.17			001	01/01/1975	TURBINE BUILDING - CONCRETE BASEMENT SLAB LOADING CONDITION COLUMN LINE F (BOOK III) - SUPPLEMENT
000000004030667	CR3	CORR	3.01.18			001	01/01/1975	TURBINE BUILDING - CONCRETE NORTHWEST CORNER EQUIPMENT LOADS AND LOCATION (BOOK II) - SUPPLEMENT
000000004030671	CR3	CORR	3.01.17			001	01/01/1975	TURBINE BUILDING - CONCRETE BASEMENT SLAB LOADING CONDITION COLUMN LINE F (BOOK III) - SUPPLEMENT
000000004030673	CR3	CORR	3.01.18			001	01/01/1975	TURBINE BUILDING - CONCRETE COLUMN PLASTER PLAN AT EL 114 FT (BOOK III) - SUPPLEMENT
000000004030685	CR3	CORR	3.01.21			001	01/01/1975	TURBINE BUILDING - CONCRETE COLUMN FOUNDATIONS (BOOK III) - SUPPLEMENT
000000004030688	CR3	CORR	2.01.58			001	01/01/1975	INTERMEDIATE BUILDING REINF. CONCRETE (DESIGN REVIEW) - SUPPLEMENT TO RMS 2895560
000000004030689	CR3	CORR	3.01.22			001	01/01/1975	TURBINE BUILDING - CONCRETE H.P. AIR SHAFT DUCT ALONG COL. LINE A SEC. 4-4 AND 5-5 (BOOK III) - SUPPLEMENT

Trusted sites 100%

Using SEEK document service and using the CORR document search with "concrete" in the title the above "hits" were identified. There are no relevant "hits".

http://progressnet/PTI-RM-RMS/Search.aspx

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RMS

Passport.net RMS Record Search 10/27/2009 10:54:38 AM

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Search Criteria

Search Results (3 records found)

Record No	Facility	Unit	Doc Type	Doc Nbr	Sheet Nbr	Rev Nbr	Minor Rev	Doc Date	Doc Title
000000002853414	CR3		ED	0000052447		000		04/29/2003	FSV-502 AND FSV-80 CONCRETE PAD AND VALVE BOX
000000003159269	CR3		ED	0000058999		000		10/11/2004	HIGH TEMPERATURE CONCRETE ANALYSIS
000000003571379	CR3		ED	0000065437		000		11/20/2005	CONCRETE ANCHOR REQUIREMENTS FOR MP-807 FIRE BARRIER INSTALLATION

Using SEEK document service and using the ED document search with "concrete" in the title the above "hits" were identified. There are no relevant "hits".

http://progressnet/PTN-RM-RMS/Search.aspx

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RMS

10/27/2009 3:16:18 PM

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Search Criteria

Search Results (19 records found)

Record No	Facility Unit	Doc Type	Doc Nbr	Sheet Nbr	Rev Nbr	Minor Rev	Doc Date	Doc Title
00000000089576	CR3	MNT	0035538001				01/22/2003	CONT.MW,INSTALL CONCRETE BALLARDS, CONCRETE IN TRENCHES
000000002919557	CR3	MNT	0040055301				08/26/2003	P, CP, APPLY TEST COATING ON CONCRETE WALL OF TENDON GALLEY.
000000002946657	CR3	MNT	0022318401			001	10/13/2003	M, PM, RAX-3, PULL CONCRETE BEAMS AT EQUIP.HATCH
000000002955264	CR3	MNT	0022318402				10/31/2003	M, PM, RAX-3, REINSTALL CONCRETE BEAMS AT EQUIP.HATCH
000000003065779	CR3	MNT	0036200101				04/28/2004	M,MW,RWH-14 REPAIR CONCRETE AND HANGER PER EC 51111
000000003354948	CR3	MNT	0076213501				10/25/2005	M, OM, REPAIR DAMAGED CONCRETE BY SDV-169
000000003355734	CR3	MNT	0047821101				10/26/2005	M, PM, RAX-3, PULL CONCRETE BEAMS AT EQUIP.HATCH
000000003373564	CR3	MNT	0055874801				11/21/2005	P,OW,R14 SCRAPE FAILED/FLAKING CONCRETE& STEEL COATINGS
000000003384159	CR3	MNT	0047821102				12/09/2005	M, PM, RAX-3, REINSTALL CONCRETE BEAMS AT EQUIP.HATCH
000000003371388	CR3	MNT	0078551804				10/19/2007	Y, PM, RAX-3, PULL/REPLACE CONCRETE
0000000033779021	CR3	MNT	0100101301		000		11/24/2007	P,OM,R15 COATINGS: SL I CONCRETE EL 95
0000000033790727	CR3	MNT	0068104308			001	12/02/2007	E,Q,D,W, RB ASME XI IWE /IWL VISUAL EXAMIS LINER / CONCRETE - SUPPLEMENT TO RMS # 0000000033785100
0000000033790727	CR3	MNT	0111453205		000		02/19/2008	M,OM,CONCRETE FILL CW SUPPLY AND DISCHARGE FLUME MANWAYS
000000003329553	CR3	MNT	0112752301		000		02/21/2008	M,OM,CONCRETE RWP PIT MANHOLE SUMPS
000000003336306	CR3	MNT	0129547301				03/05/2008	INSTALL CONCRETE CURB AROUND HEAT EXCHANGER IAHE-6B
000000003336125	CR3	MNT	0100405201		000		03/10/2008	M,OM,GCKR-1, PERFORM CONCRETE REPAIR
0000000033342138	CR3	MNT	0083375301		000		09/22/2008	M, OM, GROUT ABANDONED ANCHOR HOLE IN CONCRETE
0000000033972130	CR3	MNT	0075665301		000		10/20/2008	M,OM,CDP-1A & CDP-1B REMOVE ABANDONED CONCRETE PADS & STUDS
000000004212750	CR3	MNT	0131602202		000		10/15/2009	P,OM,RB COATINGS: SL I CONCRETE EL 95

Using SEEK document service and using the Work Order document search with "concrete" in the title the above "hits" were identified. There are no relevant "hits".

MREV Screening

NCR# 184396-10

Page 1 of 5

- 1. Does the described condition document the failure or degradation of a component or subcomponent in a Maintenance Rule scoped system?**
- 2. Does the condition describe a plant level event or unplanned /unexpected unavailability?**

Yes to either: Continue to Question 2

No to Both: MREV is not needed. Mark the *1 FUNCTIONAL FAILURE* attribute with an "N". Document in the *1 FUNCTIONAL FAILURE* attribute note why an MREV is not needed. Place "N's" in the remaining required attributes and forward MREV to your Supervisor.

Condition Summary (Optional):

Pieces of concrete from the Containment Building were discovered on the Auxiliary Building roof. Since Containment Building is within the boundaries of the MX system, the MREV is proceeding to question 2.

- 2. Review PMG basis and functional failure definition. Based on the functional failure definition and PMG basis, is this a functional failure?**

Yes: Mark the *1 FUNCTIONAL FAILURE* attribute with a "Y". Identify affected function and PMG in the *1 FUNCTIONAL FAILURE* attribute note. Identify all other performance criteria (unavailability, Rx trips, etc.) that this PMG is monitored with. If you did not perform the apparent cause investigation for this failure, you must perform one to ensure the cause /corrective action(s) are sufficient to prevent reoccurrence. In accordance with CP-153B, NFIR's are not acceptable and a investigation must be performed by the system engineer. Document the apparent cause information (assignment # and due date) in the MREV.

Go to Question 3.

No: Mark the *1 FUNCTIONAL FAILURE* attribute with an "N". Identify the function and PMG reviewed in the *1FUNCTIONAL FAILURE* attribute note. Using the functional failure definition or PMG basis, clearly identify why the condition is not a functional failure. List all other performance criteria for this PMG.

Go to Question 4.

1 FUNCTIONAL FAILURE: Y N

Note Text:

There are five Performance Monitoring Groups (PMGs) for the MX system:

MXF1 - Integrity of structures which house equipment vital to monitoring containment integrity

MXF2 - Integrity of structures which house equipment vital to safe shutdown of the reactor.

MXF3 - Integrity of structures for equipment containing significant quantities of radioactive materials.

MREV Screening

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5. Did this condition result in exceeded unavailability?

Yes: Mark the 3 UNAVAILABILITY attribute with a "Y" and provide details in the 3 UNAVAILABILITY attribute note.

No: Mark the 3 UNAVAILABILITY attribute with an "N" and provide details about the unavailability in the 3 UNAVAILABILITY attribute note.

3 UNAVAILABILITY: Y N

Note Text:

In EITHER case, if plant level criteria are not monitored, place "N's" in the 4A, 4B, and 4C attributes, and go to Question 9, otherwise go to Question 6.

6. Did this condition cause a reactor trip?

Yes: Mark 4A RX TRIP Attribute with a "Y" and provide details in the 4A RX TRIP attribute note.

No: Mark 4A RX TRIP Attribute with an "N" and provide explanation in the 4A RX TRIP attribute note.

4A RX TRIP: Y N

Note Text:

IF safety system actuations are monitored, go to Question 7.

ELSE, place an "N" in the 4B SAFETY SYS ACTUAT, AND go to Question 8.

7. Did this condition cause safety system actuation?

Yes: Mark 4B SAFETY SYS ACTUAT Attribute with a "Y" and provide details in the 4B SAFETY SYS ACTUAT attribute note.

No: Mark 4B SAFETY SYS ACTUAT Attribute with an "N" and provide explanation in the 4B SAFETY SYS ACTUAT attribute note.

4B SAFETY SYS ACTUAT: Y N

Note Text:

IF unplanned megawatt losses are monitored, go to Question 8.

ELSE, place an "N" in the 4C UNPLANNED CAP LOS, AND go to Question 9.

MREV Screening

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8. Did the condition cause an unplanned power reduction as reportable to the MicroGads System (Thermal Performance)

Yes: Mark *4C UNPLANNED CAP LOS* Attribute with a "Y" and provide MW hours lost and total hours remaining in the *4C UNPLANNED CAP LOS* attribute note.

No: Mark *4C UNPLANNED CAP LOS* Attribute with an "N" and provide explanation in the *4C UNPLANNED CAP LOS* attribute note.

4C UNPLANNED CAP LOS: Y N

Note Text:

9. Have any performance criteria been exceeded? This attribute is required if a functional failure, repetitive functional failure, any unavailability, or a plant level event occurred.

Yes: Mark the *5 PERF CRIT EXCEEDED* Attribute with a "Y" and provide details in the *5 PERF CRIT EXCEEDED* attribute note.

No: Mark the *5 PERF CRIT EXCEEDED* Attribute with an "N" and provide explanation in the attribute note.

5 PERF CRIT EXCEEDED: Y N

Note Text:

None of the performance criteria were exceeded for the Containment Building.

10. If any performance criteria have been exceeded or a repetitive functional failure has been identified, has an NCR to perform a significant adverse condition investigation been initiated?

Yes: Mark the *7A PRI 1 NCR REQ* Attribute with a "Y" and provide NCR number in the attribute note.

No: Initiate one, mark the *7A PRI 1 NCR REQ* attribute with an "Y" and provide NCR number in the attribute note.

NA: Mark the *7A PRI 1 NCR REQ* attribute note with an "N" and proceed to 11.

7A PRI 1 NCR REQ: Y N N/A

Note Text:

N/A

11. Does this condition require a log entry in the Maintenance Rule database? This attribute is required to be marked with a "Y" if a functional failure, repetitive functional failure, any unavailability, or a plant level event occurred. Otherwise all other log entries are optional,

MREV Screening

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and you may mark the 6 attribute with an "N" and submit MREV for approval.

Yes: Make a log entry in the MR database, mark attribute 6 *MR DATABASE ENTRY REQ* with a "Y" and submit MREV for approval.

6 *MR DATABASE ENTRY REQ*: Y N

Note Text:

This was not a functional failure of the Containment Building and therefore does not require a MR database entry.

MREV Screening

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Page 1 of 5

- 1. Does the described condition document the failure or degradation of a component or subcomponent in a Maintenance Rule scoped system? Does the condition describe a plant level event or unplanned /unexpected unavailability?**

Yes to either: Continue to Question 2

No to Both: MREV is not needed. Mark the *1 FUNCTIONAL FAILURE* attribute with an "N". Document in the *1 FUNCTIONAL FAILURE* attribute note why an MREV is not needed. Place "N's" in the remaining required attributes and forward MREV to your Supervisor.

Condition Summary (Optional):

NCR 155986 documents the discovery of chunks of concrete on the ground near the BWST that had fallen from the exterior of the Reactor Building (RB) wall. Since the walls of the RB are within the system boundaries of the MX system, the described condition does document the degradation of a component in a Maintenance Rule scoped system.

- 2. Review PMG basis and functional failure definition. Based on the functional failure definition and PMG basis, is this a functional failure?**

Yes: Mark the *1 FUNCTIONAL FAILURE* attribute with a "Y". Identify affected function and PMG in the *1 FUNCTIONAL FAILURE* attribute note. Identify all other performance criteria (unavailability, Rx trips, etc.) that this PMG is monitored with. If you did not perform the apparent cause investigation for this failure, you must perform one to ensure the cause /corrective action(s) are sufficient to prevent reoccurrence. In accordance with CP-153B, NFIR's are not acceptable and a investigation must be performed by the system engineer. Document the apparent cause information (assignment # and due date) in the MREV.

Go to Question 3.

No: Mark the *1 FUNCTIONAL FAILURE* attribute with an "N". Identify the function and PMG reviewed in the *1FUNCTIONAL FAILURE* attribute note. Using the functional failure definition or PMG basis, clearly identify why the condition is not a functional failure. List all other performance criteria for this PMG.

Go to Question 4.

1 FUNCTIONAL FAILURE: Y N

Note Text: *damage or degradation of sufficient severity to prohibit the structure from protecting equipment vital to monitoring containment integrity*

There are three Maintenance Rule Functions that are applicable to the documented condition. The first to be considered is MXF1 - Integrity of structures which house equipment vital to monitoring containment integrity. An example of a functional failure for this PMG is described as damage or degradation of sufficient severity to prohibit the structure from protecting equipment vital to monitoring containment

MREV Screening

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integrity. Based on the results of inspections performed by engineering and maintenance, as described in the attribute notes, the source of the concrete debris and the equipment failure appears to be degraded sections of previously patched areas on the exterior reactor building wall and roof. The RB remains operable per these inspections. Thus, it is apparent that the degradation is not of sufficient severity to jeopardize this PMG.

The second PMG to consider is MXF2 - Integrity of structures which house equipment vital to safe shutdown of the reactor. For this function, then, a functional failure would be damage or degradation of sufficient severity to prohibit the structure from protecting equipment vital to safe shutdown of the reactor. As described above, this condition does not meet that level of severity.

The third PMG to consider is MXF3 - Integrity of structures for equipment containing significant quantities of radioactive materials. For this function, then, a functional failure would be damage or degradation of sufficient severity to prohibit the structure from protecting equipment containing significant quantities of radioactive materials. As described above, this condition does not meet that level of severity.

Thus, the described condition does not constitute a functional failure of the MX system. The MX system is not monitored for any other performance criteria besides functional failures.

3. Is this a repetitive Maintenance Rule functional failure? Review historical data for the past 3 years to identify if there are any functional failures of the same component type (same manufacturer and model number) that have failed due to the same cause.

Yes: Mark the 2 *REPETITIVE FF* attribute with a "Y" and identify the repetitive FF in the 2 *REPETITIVE FF* attribute note.

Go to Question 4.

No: Mark the 2 *REPETITIVE FF* attribute with an "N" and document search details in the 2 *REPETITIVE FF* attribute note.

Go to Question 4.

2 *REPETITIVE FF*: Y N

Note Text:

This is the box where the text can be entered. Note that the box grows as more text is entered

4. Is the affected PMG monitored by other criteria?

Unavailability:	NO Go to 5
Rx. Trips:	NO Go to 6
Safety Sys Acts:	NO Go to 7
Unplanned Mw loss:	NO Go to 8

No, AND the condition IS a functional failure:

Go to 9

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No, AND the condition IS NOT a functional failure: Place "N's" for the above attributes, and forward to Supervision for approval.

5. Did this condition result in exceeded unavailability?

Yes: Mark the 3 UNAVAILABILITY attribute with a "Y" and provide details in the 3 UNAVAILABILITY attribute note.

No: Mark the 3 UNAVAILABILITY attribute with an "N" and provide details about the unavailability in the 3 UNAVAILABILITY attribute note.

3 UNAVAILABILITY: Y N

Note Text:

This is the box where the text can be entered. Note that the box grows as more text is entered.

In EITHER case, if plant level criteria are not monitored, place "N's" in the 4A, 4B, and 4C attributes, and go to Question 9, otherwise go to Question 6.

6. Did this condition cause a reactor trip?

Yes: Mark 4A RX TRIP Attribute with a "Y" and provide details in the 4A RX TRIP attribute note.

No: Mark 4A RX TRIP Attribute with an "N" and provide explanation in the 4A RX TRIP attribute note.

4A RX TRIP: Y N

Note Text:

This is the box where the text can be entered. Note that the box grows as more text is entered.

IF safety system actuations are monitored, go to Question 7.

ELSE, place an "N" in the 4B SAFETY SYS ACTUAT, AND go to Question 8.

7. Did this condition cause safety system actuation?

Yes: Mark 4B SAFETY SYS ACTUAT Attribute with a "Y" and provide details in the 4B SAFETY SYS ACTUAT attribute note.

No: Mark 4B SAFETY SYS ACTUAT Attribute with an "N" and provide explanation in the 4B SAFETY SYS ACTUAT attribute note.

4B SAFETY SYS ACTUAT: Y N

Note Text:

MREV Screening

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This is the box where the text can be entered. Note that the box grows as more text is entered.

IF unplanned megawatt losses are monitored, go to Question 8.

ELSE, place an "N" in the *4C UNPLANNED CAP LOS*, AND go to Question 9.

8. Did the condition cause an unplanned power reduction as reportable to the MicroGads System (Thermal Performance)

Yes: Mark *4C UNPLANNED CAP LOS* Attribute with a "Y" and provide MW hours lost and total hours remaining in the *4C UNPLANNED CAP LOS* attribute note.

No: Mark *4C UNPLANNED CAP LOS* Attribute with an "N" and provide explanation in the *4C UNPLANNED CAP LOS* attribute note.

4C UNPLANNED CAP LOS: Y N

Note Text:

This is the box where the text can be entered. Note that the box grows as more text is entered.

9. Have any performance criteria been exceeded? This attribute is required if a functional failure, repetitive functional failure, any unavailability, or a plant level event occurred.

Yes: Mark the *5 PERF CRIT EXCEEDED* Attribute with a "Y" and provide details in the *5 PERF CRIT EXCEEDED* attribute note.

No: Mark the *5 PERF CRIT EXCEEDED* Attribute with an "N" and provide explanation in the attribute note.

5 PERF CRIT EXCEEDED: Y N

Note Text:

This is the box where the text can be entered. Note that the box grows as more text is entered. Amazing! BTW, Try not to nuke the box.

10. If any performance criteria have been exceeded or a repetitive functional failure has been identified, has an NCR to perform a significant adverse condition investigation been initiated?

Yes: Mark the *7A PRI 1 NCR REQ* Attribute with a "Y" and provide NCR number in the attribute note.

No: Initiate one, mark the *7A PRI 1 NCR REQ* attribute with an "Y" and provide NCR number in the attribute note.

NA: Mark the *7A PRI 1 NCR REQ* attribute note with an "N" and proceed to 11.

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7A PRI 1 NCR REQ: Y N N/A

Note Text:

This is the box where the text can be entered. Note that the box grows as more text is entered. Amazing! BTW, Try not to nuke the box.

- 11. Does this condition require a log entry in the Maintenance Rule database? This attribute is required to be marked with a "Y" if a functional failure, repetitive functional failure, any unavailability, or a plant level event occurred. Otherwise all other log entries are optional, and you may mark the 6 attribute with an "N" and submit MREV for approval.**

Yes: Make a log entry in the MR database, mark attribute 6 *MR DATABASE ENTRY REQ* with a "Y" and submit MREV for approval.

6 MR DATABASE ENTRY REQ: Y N

Note Text:

This is the box where the text can be entered. Note that the box grows as more text is entered. Amazing! BTW, Try not to nuke the box.

SOURCE OF CONCRETE DEBRIS AND EQUIPMENT FAILURE APPEARS TO BE DEGRADED SECTIONS OF PREVIOUSLY PATCHED AREAS ON EXTERIOR REACTOR BUILDING WALL AND ROOF.

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Title/Description	Page: 1
<p>1 http://nggstairs/mdot/CR3/B/c004740407.htm Historical SEEK data - CR3 RAN: 00474-0407 DOCNO: WR26915 DATE: 09/04/1981, 10/08/1981 KWDS: REPAIR, CONCRETE, BERM LOC: 00474-0407 RETEN: LIFE OF POLICY + 10</p>	
<p>2 http://nggstairs/mdot/CR3/B/c020450100.htm Historical SEEK data - CR3 RAN: 02045-0100 DOCNO: WR22207 DATE: 02/27/1981, 01/18/1982 DXREF: POF11527, POF11882 KWDS: CONCRETE REPAIR & REPLACEMENT LOC: 02045-0100 RETEN: LIFE OF POLICY + 10</p>	
<p>3 http://nggstairs/mdot/CR3/E/c900155674.htm Historical SEEK data - CR3 RAN: 90015-5674 DOCNO: WR322973 DATE: 10/18/1994, 06/21/1996, 05/15/1996 DXREF: MP139613248 TAG: MX-0-0 KWDS: REPAIR, CONCRETE, GROUT, MISCELLANEOUS MECHANICAL STRUCTURAL, MX RETEN: LIFE OF POLICY + 10 IMAGE: Y VS_LIC_3F3N DOC_SECURITY_FLAG 192381 WR322973.</p>	
<p>4 http://nggstairs/mdot/CR3/G/c900392207.htm Historical SEEK data - CR3 RAN: 90039-2207 DOCNO: CP213 REV: 7 DATE: 06/09/1999 TITLE: PREPARATION OF A SAFETY ASSESSMENT & UNREVIEWED SAFETY QUESTION DETERMINATION, REPAIR OF CONCRETE CIRCULATING WATER PIPING DXREF: 10CFR50-59, SAUSQD99-0136 TAG: CW-0-0 KWDS: CIRCULATING WATER, CW RETEN: LIFE OF POLICY + 10 IMAGE: Y VS_LIC_3F3N</p>	

DOC_SECURITY_FLAG 353151 CP213 .

5 <http://nggstairs/mdot/CR3/L/c990092393.htm>

Historical SEEK data - CR3 RAN: 99009-2393 DOCNO: WR45875 DATE: 05/24/1983, 06/13/1983, 06/14/1983 KWDS: CONCRETE, REPAIR LOC: 02247-1746 RETEN: LIFE OF POLICY + 10

6 <http://nggstairs/mdot/CR3/M/c990134732.htm>

Historical SEEK data - CR3 RAN: 99013-4732 DOCNO: WR54828 DATE: 04/24/1984, 08/10/1984 KWDS: REMOVAL, CONCRETE, REPAIR, HOLE LOC: 02780-0986 RETEN: LIFE OF POLICY + 10

7 <http://nggstairs/mdot/CR3/N/c990273528.htm>

Historical SEEK data - CR3 RAN: 99027-3528 DOCNO: QPE DATE: 07/08/1985, 07/08/1986 TITLE: VENDOR QUALITY EVALUATION REPORT TRACE: FLAG KWDS: CONCRETE, REPAIR, INJECTION, EPOXY LOC: 03164-0097 RETEN: LIFE OF POLICY + 10 RMKS: STRUCTURAL INJECTION & BONDING CO

8 <http://nggstairs/mdot/CR3/N/c990279393.htm>

Historical SEEK data - CR3 RAN: 99027-9393 DOCNO: QPE DATE: 07/08/1985, 07/08/1986 TITLE: VENDOR QUALITY EVALUATION REPORT VEND: S60902, STRUCTURAL INJECTION, 819797 KWDS: CONCRETE, REPAIR, INJECTION LOC: 03429-1589 RETEN: LIFE OF POLICY + 10

9 <http://nggstairs/mdot/CR3/N/c990285771.htm>

Historical SEEK data - CR3 RAN: 99028-5771 DOCNO: LOG DATE: 01/01/1976, 06/01/1976 TITLE: VARIOUS LOGBOOK OF DOME REPAIR TO REACTOR BUILDING TAG: RC-0-0 VEND: J11100, JONES JA CONSTRUCTION CO, JA JONES CONSTRUCTION KWDS: DOME, CONCRETE, REPAIR, REACTOR COOLANT, RC LOC: RUSTY BLDG VAULT RETEN: LIFE OF POLICY + 10 RMKS: THESE ARE LOGBOOKS KEPT BY VARIOUS QC PERSONNEL ON THE DOME REPAIR, THEY ARE FILED UNDER HARD COPY FILE LOCATION 99028-5771

10 <http://nggstairs/mdot/CR3/O/c990374873.htm>

Historical SEEK data - CR3 RAN: 99037-4873 DOCNO: RWP86-719 DATE: 11/14/1986 TITLE: REMOVE ANCHOR, PLUG GREASE LEAK & REPAIR CONCRETE AT HOLE, 95FT ELEVATION, AUXILIARY BUILDING DXREF: RS86-11-299, RS86-11-193, WR84239, RS86-11-316, RS86-11-322 TAG: SWR-6 KWDS: NUCLEAR SERVICE CLOSED CYCLE COOLING, SW, SEISMIC RESTRAINT, RECORDER, R LOC: 03911-1371 RETEN: LIFE OF POLICY + 10

11 <http://nggstairs/mdot/CR3/O/c990395792.htm>

Historical SEEK data - CR3 RAN: 99039-5792 DOCNO: WR87489 DATE: 02/19/1987, 06/10/1987 DXREF: EQ87-0247, FCR80 KWDS: REPAIR, CONCRETE, GUARD, RAIL LOC: 04083-1279 RETEN: LIFE OF POLICY + 10

12 <http://nggstairs/mdot/CR3/T/c990837314.htm>

Historical SEEK data - CR3 RAN: 99083-7314 DOCNO: WR276090 DATE: 10/22/1990, 10/31/1990 KWDS: REPAIR, CONCRETE, BERM LOC: 05955-0419 RETEN: LIFE OF POLICY + 10

13 <http://nggstairs/mdot/CR3/T/c990848963.htm>

Historical SEEK data - CR3 RAN: 99084-8963 DOCNO: WR280038 DATE: 01/31/1991, 03/13/1991 TAG: PS-0-0 KWDS: CONCRETE, REPAIR, PLANT SECURITY SYSTEM, PS, BERM LOC: 06163-0060 RETEN: LIFE OF POLICY + 10

14 <http://nggstairs/mdot/CR3/V/c991031076.htm>

Historical SEEK data - CR3 RAN: 99103-1076 DOCNO: CALC, CALCS92-0089 REV: 0 DATE: 05/01/1992 TITLE: CALCULATION & ANALYSIS, REPAIR OF MISCELLANEOUS PIPE SUPPORT, CONCRETE ANCHOR DXREF: MAR92-05-01-01 TAG: MX-0-0, DHH-646 VEND: F16200, FLORIDA POWER CORP, FPC, 285718 KWDS: MISCELLANEOUS MECHANICAL STRUCTURAL, MX, DECAY HEAT REMOVAL, DH, HANGER, H LOC:

06602-0194 RETEN: LIFE OF POLICY + 10

15 <http://nggstairs/mdot/CR3/V/c991036275.htm>

Historical SEEK data - CR3 RAN: 99103-6275 DOCNO: CALC, CALCS92-0095 REV: 0 DATE: 05/21/1992 TITLE: CALCULATION & ANALYSIS, REPAIR OF PIPE SUPPORT DXREF: MAR92-05-01-01, DC552006011PE TAG: SWH-24 VEND: F16200, FLORIDA POWER CORP, FPC, 285718 KWDS: NUCLEAR SERVICE CLOSED CYCLE COOLING, SW, HANGER, H, ANCHOR, BOLT, CONCRETE LOC: 06668-2480 RETEN: LIFE OF POLICY + 10

16 <http://nggstairs/mdot/CR3/W/c991067575.htm>

Historical SEEK data - CR3 RAN: 99106-7575 DOCNO: WR294274 DATE: 02/18/1992, 02/18/1993, 02/03/1993 DXREF: RWP93-4, AI1810102709, MP139102710 TAG: CZ-0-0 PARTNO: CSA119404SE KWDS: CONDUIT SUPPORT, CZ, WALL, GROUT, CONCRETE, REPAIR, HANGER LOC: 06961-0353 RETEN: LIFE OF POLICY + 10

17 <http://nggstairs/mdot/CR3/E/c900186167.htm>

Historical SEEK data - CR3 RAN: 90018-6167 DOCNO: WR321117 DATE: 07/27/1994, 03/25/1997, 09/08/1994, 10/19/1994 DXREF: CLEARANCE94-08-149, PI308823, CDS017650, CDS017648, CDS017649, CDS017956, CDS017955, RWP96-37, RWP94-170, CONTRACT N00918AA, PRR0871, PRC94-32, REA94-0922, PRR0915, PRC94-37, NOMO95-0053, WPN83-0146, WR258135, NED95-0372, PI908747, PI308569, PI908728, PI308976, PI312036, SR00110 EXREF: BSP-1A, DHP-1A, DH-2-TE1, BSV-12, BSV-17, BSP-1B, DHP-1B, DH-2-TE2, BSV-11, BSV-16 TAG: DH-...

18 <http://nggstairs/mdot/CR3/N/c990256141.htm>

Historical SEEK data - CR3 RAN: 99025-6141 DOCNO: PRNR, MP145, MP146, MP148, MP150, MP153, MP155, MP156, MP157, MP158, MP159, MP160, MP162, MP164, MP165, MP166, MP168, MP169, MP170, MP172, MP203, MP302, MP407, MP410, MP509, MP510, MP511, PM512, MP517, MP601, PM123, PM124, PM126, PM128, PM130, PM133, PM135, PM136, PM138, PM143, PM144, PM210, PM223, PM224 DATE: 10/17/1985 TITLE: PROCEDURE REVIEW NOTIFICATION RECORD, MAINTENANCE OF SPENT FUEL COOLING PUMP, DISASSEMBLY & REASSEMBLY OF BUTTERFLY ...



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Title/Description	Page: 1
<p>1 http://nggstairs/mdot/CR3/A/c001421977.htm Historical SEEK data - CR3 RAN: 00142-1977 DOCNO: NCOR79-216, CP111 DATE: 06/18/1979, 06/25/1979 TITLE: PROCEDURE FOR DOCUMENTING & REPORTING & REVIEWING NONCONFORMING OPERATION REPORT, DISCHARGE PIPE CONCRETE SUPPORT CRACKED DXREF: PRC79-32, 301A1 TAG: SWHE-1A, DCHE-0 KWDS: NUCLEAR SERVICE CLOSED CYCLE COOLING, SW, HEAT EXCHANGER, CONDENSER, COOLER, DEAERATOR, HE, DECAY HEAT, CLOSED CYCLE COOLING, DC LOC: 00142-1977 RETEN: LIFE OF POLICY + 10</p>	
<p>2 http://nggstairs/mdot/CR3/A/c001620513.htm Historical SEEK data - CR3 RAN: 00162-0513 DOCNO: NCOR79-216, CP111 DATE: 06/18/1979, 06/25/1979 TITLE: PROCEDURE FOR DOCUMENTING & REPORTING & REVIEWING NONCONFORMING OPERATION REPORT, DISCHARGE PIPE CONCRETE SUPPORT CRACKED DXREF: 301A1, PRC79-32 TAG: SWHE-1A KWDS: NUCLEAR SERVICE CLOSED CYCLE COOLING, SW, HEAT EXCHANGER, CONDENSER, COOLER, DEAERATOR, HE LOC: 00162-0513 RETEN: LIFE OF POLICY + 10</p>	
<p>3 http://nggstairs/mdot/CR3/B/c027080215.htm Historical SEEK data - CR3 RAN: 02708-0215 DOCNO: CR82 DATE: 01/13/1982 TITLE: EVALUATION OF CONCRETE CRACK IDENTIFIED DURING THE THIRD TENDON SURVEILLANCE ORIG: VATTAMATTAM JV, NUCLEAR ENGINEERING & LICENSING, NUCLEAR ENGINEERING, 723 RCVR: BOLDT GL, SITE NUCLEAR OPERATIONS, OPERATIONS, 740 DXREF: FCS81-1916, SP80-015 LOC: 02708-0215 RETEN: LIFE OF POLICY + 10</p>	
<p>4 http://nggstairs/mdot/CR3/E/c900158167.htm Historical SEEK data - CR3 RAN: 90015-8167 DOCNO: VEND DATE: 07/22/1997 TITLE: CONTAINMENT BUTTRESS CONCRETE CRACKING</p>	

Hardcopy printed out from microfilm reel. Talks about minor crack/spall around tendons and ring girder- no structural concerns

ORIG: BISS D, ADLER RW, G15130, PARSONS POWER GROUP INC, GILBERT COMMONWEALTH INC RCVR: NISULA WW, LESE JA, NUCLEAR ENGINEERING & LICENSING, NUCLEAR ENGINEERING, 723, PLANT ENGINEERING & TECHNICAL SERVICES, PLANT ENGINEERING, 620 DXREF: FCS14896, CONTRACT N00821AD, SMALL ACCOUNT REQUEST21, DWG421-031, DWG421-032, DWG421-033, DWG421-036, DWG421-040 JOB: WA50 RETEN: LIFE OF ...

Talks about minor crack/spall around tendons and ring girder- no structural concerns

July 22, 1997

FCS-14896
Contract N00821AD
Small Account Request #21
WA 50

Mr. W. W. Nisula
Contract Manager
Florida Power Corporation (NA1B)
15760 West Power Line Street
Crystal River, FL 34428-6708

Attention: Mr. Joe Lese

Re: Crystal River Unit 3
Containment Buttress Concrete Cracking

Dear Mr. Nisula:

As a deliverable to Small Account Request number 21, the following evaluation is provided. Cracking and subsequent spalling of concrete at the external corner of the containment buttresses has been attributed to the presence of a small steel angle welded to the existing tendon anchorage base plates. Concrete cover over this angle created a small unreinforced region of concrete. Normal concrete shrinkage cracking has provided a path for moisture to penetrate the concrete resulting in corrosion of the embedded angle. This corrosion provided the mechanism for the small unreinforced concrete region to spall away from the embedded angle.

Original construction drawings, SC-421-031, SC-421-032, SC-421-033, SC-421-036, and SC-421-040 and original design basis calculation, 1.01.8, "Buttress Analysis and Design" were reviewed to establish if loss of the small region of concrete on the external corner of the buttresses was structurally significant. Based upon the following observations the spalled concrete area is not structurally significant:

- The horizontal tendon bearing plate is three inches thick. The small supplemental embedded angle does not extend beyond the back surface of the tendon bearing plate.
- Tendon forces are transmitted to the concrete structure at the back surface of the tendon bearing plate. Spiral reinforcement is provided to develop the localized bursting forces at each tendon bearing plate.
- Horizontal #9 and #11 reinforcing bars are provided within the buttress to transfer all tendon anchorage forces into the cylindrical concrete containment structure. The large scale

reinforcement placement detail provided on drawing SC-421-040 demonstrates the amount of concrete "outside" these large diameter bars at the corner where spalling has occurred.

- Supplemental reinforcement consisting of a vertical #4 bar with horizontal #4 hairpins to control localized shrinkage cracking of the concrete "outside" of the principal reinforcement in the external corner of the buttress is provided in the construction documents. This reinforcement would be positioned further into the buttress than the embedded angle.


In conclusion, the small unreinforced corner of concrete formed by the small embedded steel angle, most likely provided as a forming and positioning aid during construction, does not participate in the structural performance of the containment. Controlled removal of the small region of concrete external to the embedded angle and subsequent sealing of the surface is the recommended resolution of the existing condition.

If there are any questions on this evaluation please contact the writer.

Very truly yours,



Daniel Biss, PE
Supervising Structural Engineer



R. W. Adler
Manager, Nuclear Projects

RWA\TDB\bmb

cc: W. W. Nisula (NA1B)
J. A. Lese (NT06D)
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T. D. Biss