

Originator: Schwartz, Geoffrey E

Originator Phone: 6684

Originator Group: Eng Project Mgmt

Operability Required: Y

Supervisor Name: Verrochi, Steven F

Reportability Required: N

Discovered Date: 09/01/2005 10:00

Initiated Date: 09/07/2005 16:06

Condition Description:

This CR initiated by CA&A to copy a manual CR, which is attached to the suggested action section below with the original paper operability review.

A hairline crack several feet in length was found at approximately 60 foot level of Unit 2 spent fuel pool south wall on the loading bay side. The crack has evidence of liquid seepage with trace amounts of cesium 134. This was found during excavation associated with the dry cask storage project.

The crack was inspected by a structural engineer and the supervisor of Structural-Civil Engineering and does not pose an operability concern for the spent fuel pool.

It is a typical concrete crack that develops during forming, and is non-propagating. It was not created by the excavation, since excavation only removed loose soil and rocks which was not load-bearing for the wall. The pool is an independent structure not supported by adjacent material.

The activity is indicative of either a pinhole leak in the pool stainless steel interior liner, or is from seepage into the crack (which is now leaching out) during watering of the soil above the level of the crack to inhibit dust as it was being removed.

Immediate Action Description:

Informed Shift Manager, Operations Manager, Plant Manager, Engineering Director. Performed inspections described above. Radiologically controlled the area. Also informed the NRC resident.

Suggested Action Description:

(FROM 9/1/05 paper CR attached) Keep radiological controls in place, continue to monitor. Assign CR to Manager of Dry Cask Storage, who will develop and implement a repair plan such as seal injection. Test liquid samples for boron (there is no evidence visible).

EQUIPMENT:

<u>Tag Name</u>	<u>Tag Suffix Name</u>	<u>Component Code</u>	<u>Process System Code</u>
			SFPC

REFERENCE ITEMS:

<u>Type Code</u>	<u>Description</u>
CARB-EDIT	I10105
CR	Manual CR IP2-2005-00011
CR	IP2-2005-03885
CR	IP3-2005-04713
CR	IP2-2006-01039
CR	IP2-2005-04799
CR	IP2-2005-04151
CR	IP2-2005-03986

TRENDING (For Reference Purposes Only):

<u>Trend Type</u>	<u>Trend Code</u>
KEYWORDS	KW-ODMI
KEYWORDS	KW-RAD PROTECTION MANAGMENT

TRENDING (For Reference Purposes Only):

Trend Type

Trend Code

REPORT WEIGHT

I

Attachments:

Suggested Action Description

Manual paper CR w/operability review performed.

Remarks description

ODMI Resolved

Initiated Date: 9/7/2005 16:06**Owner Group :** Eng Project Mgmt**Current Contact:** Joe Reynolds**Current Significance:** B - ACE & CARB**Closed by:****Summary Description:**

This CR initiated by CA&A to copy a manual CR, which is attached to the suggested action section below with the original paper operability review.

A hairline crack several feet in length was found at approximately 60 foot level of Unit 2 spent fuel pool south wall on the loading bay side. The crack has evidence of liquid seepage with trace amounts of cesium 134. This was found during excavation associated with the dry cask storage project.

The crack was inspected by a structural engineer and the supervisor of Structural-Civil Engineering and does not pose an operability concern for the spent fuel pool.

It is a typical concrete crack that develops during forming, and is non-propagating. It was not created by the excavation, since excavation only removed loose soil and rocks which was not load-bearing for the wall. The pool is an independent structure not supported by adjacent material.

The activity is indicative of either a pinhole leak in the pool stainless steel interior liner, or is from seepage into the crack (which is now leaching out) during watering of the soil above the level of the crack to inhibit dust as it was being removed.

Remarks Description:

9/19/05: Per CRG, ODMI Action Plan approved. (cbh)

11/9/05: Per CRG, Addendum to ODMI Action Plan approved. (cbh)

3/6/06: Per CRG and attached e-mail, ODMI declared resolved. (cbh)

Closure Description:

Operability Version: 1**Operability Code:** EQUIPMENT OPERABLE**Immediate Report Code:** NOT REPORTABLE**Performed By:** Buchal, Timothy J

09/08/2005 00:57

Approved By: Drown, Keith A

09/08/2005 01:16

Operability Description:

See attachment associated with 'Suggested Action Description' section for Operability. Recommend CRG review for possible ODMI.

Approval Comments:

Approved. Operability based upon level, boron concentration and spent fuel placement unaffected.

Version: 1

Significance Code: B - ACE & CARB

Classification Code: NON-SIGNIFICANT

Owner Group: Eng Project Mgmt

Performed By: Harrison,Christine B

09/09/2005 08:16

Assignment Description:

CA Number: 1

Group

Name

Assigned By: CRG/CARB/OSRC

Harrison,Christine B

Assigned To: Eng Project Mgmt

Schwartz,Geoffrey E

Subassigned To :

Originated By: Harrison,Christine B

9/9/2005 08:17:14

Performed By: Schwartz,Geoffrey E

10/3/2005 08:42:05

Subperformed By:

Approved By:

Closed By: Reynolds,Joseph A

10/3/2005 08:59:46

Current Due Date: 10/04/2005

Initial Due Date: 10/04/2005

CA Type: DISP - ACE/LT

Plant Constraint: #NONE

CA Description:

Please perform lower-tier apparent cause evaluation and assign further corrective actions as required. Note that a corrective action is being assigned to CA&A to document the CARB presentation of your evaluation.

Response:

See attached Lower-Tier Apparent Cause Evaluation.

Subresponse :

Closure Comments:

Per CA&A review, noted the response addressed all expected LT-ACE discussion points and was therefore accepted pending CARB review. CA# 2 assigned to document the results of the CARB review, therefore this CA closed.

Attachments:

Resp Description

Revised ACE to revise CAs numbers

CA Number: 2

Group	Name
Assigned By: CA&A Staff	Harrison,Christine B
Assigned To: CA&A Staff	Tumicki,Michael L
Subassigned To :	
Originated By: Harrison,Christine B	9/9/2005 08:18:25
Performed By: Tumicki,Michael L	11/3/2005 12:13:41
Subperformed By:	
Approved By:	
Closed By: Tumicki,Michael L	11/3/2005 12:13:41

Current Due Date: 12/08/2005

Initial Due Date: 12/08/2005

CA Type: CARB REVIEW

Plant Constraint: #NONE

CA Description:

Document the results of the apparent cause evaluation presentation to CARB.

Response:

The CAT B report was presented to and accepted with minor edit by the CARB on 11/01/05. The CARB provided the following feedback needing to be resolved.

(1) The CARB requested a new CA be assigned to assess what action(s) can be put in place with triggers to detect future potential leakage. Based on this review the owner should issue additional CAs as necessary to ensure actions from the assessment are put in place.

A new CA was assigned to the owner to enable the documentation of the action performed and attach the report revision to resolve the CARB feedback.

Subresponse :**Closure Comments:**

CA Number: 3

Group	Name
-------	------

Assigned By: Eng Project Mgmt

Hinrichs, Gary H

Assigned To: Eng Project Mgmt

Schwartz, Geoffrey E

Subassigned To :

Originated By: Hinrichs, Gary H

9/19/2005 08:42:00

Performed By: Schwartz, Geoffrey E

10/14/2005 16:42:20

Subperformed By:

Approved By:

Closed By: Schwartz, Geoffrey E

10/14/2005 16:42:20

Current Due Date: 12/15/2005

Initial Due Date: 12/15/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

This CA is developed based on the Extent of Condition review of a spent fuel pool leak at the Salem Nuclear Generating Station Unit 1, where the tell tale drains on the fuel pool were clogged, even though the drain valves operated properly. The unit had an undetected fuel pool leak for potentially over 20 years. The cause was due to blockages in the many of the drain lines. Some partially blocked lines were identified in the other unit. IPEC Unit 2 does not have tell tale drains, but Unit 3 does. This CA is to initiate a WO to inspect the tell tale drain lines of Unit 3 Spent fuel pool.

Response:

WO IP3-05-22693 written to inspect tell tale drain system (ghh 9/30)

Subresponse :

Closure Comments:

CA Number: 4

Group	Name
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Assigned By: Operations Tech Support Staff

Main,Dennis E

Assigned To: Eng Project Mgmt

Schwartz,Geoffrey E

Subassigned To :

Originated By: Main,Dennis E

9/19/2005 16:29:22

Performed By: Schwartz,Geoffrey E

9/20/2005 13:44:16

Subperformed By:

Approved By:

Closed By: Schwartz,Geoffrey E

9/20/2005 13:44:16

Current Due Date: 09/22/2005

Initial Due Date: 09/22/2005

CA Type: ODMI

Plant Constraint: #NONE

CA Description:

Attach ODMI Action Plan

Response:

See ODMI attached. The Action Plan is to carry out the monitoring and trigger point actions as listed in the plan. Additionally, the initial Action Plan to resolve the issue is at the end of the attached White Paper. The response to CA-1 will generate the additional Action Plan (as CAs) to resolve the issue.

Subresponse :

Closure Comments:

Attachments:

- Resp Description
- ODMI
- White paper w/ initial Action Plan for issue resolution

CA Number: 5

Group

Name

Assigned By: OEN IPEC Staff

Hornyak Jr,Michael P

Assigned To: OEN IPEC Staff

Hornyak Jr,Michael P

Subassigned To :

Originated By: Hornyak Jr,Michael P

9/28/2005 08:50:27

Performed By: Hornyak Jr,Michael P

10/17/2005 12:34:35

Subperformed By:

Approved By:

Closed By: Hornyak Jr,Michael P

10/17/2005 12:34:35

Current Due Date: 10/28/2005

Initial Due Date: 10/28/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Review the results of the lower tier ACE for possible Entergy fleet and industry share.

Response:

The apparent cause was shared within the Entergy OE Fleet on 10/3/2005, see attached e-mail. The industry share is posted as OE21506.

Subresponse :

Closure Comments:

Attachments:

Resp Description

CR-IP2-2005-03557-AC

OE Screening - CR-IP2-2005-03557-AC

CA Number: 6

Group	Name
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Assigned By: Eng Project Mgmt

Schwartz,Geoffrey E

Assigned To: Eng Project Mgmt

Schwartz,Geoffrey E

Subassigned To :

Originated By: Schwartz,Geoffrey E

10/3/2005 08:46:11

Performed By: Schwartz,Geoffrey E

11/5/2005 09:22:33

Subperformed By:

Approved By:

Closed By: Schwartz,Geoffrey E

11/5/2005 09:22:33

Current Due Date: 11/18/2005**Initial Due Date:** 11/18/2005**CA Type:** ACTION**Plant Constraint:** #NONE**CA Description:**

Determine methodology for locating and repairing the liner discontinuity or discontinuities that are allowing the observed leakage. CA closure requires initiation of an inspection/repair Work Order which cannot be cancelled without Director of Engineering approval, and/or attachment of a documented justification for not implementing inspections and/or repairs, approved by the Director of Engineering.

Response:

Inspection methodology is underwater camera.

See new CA-14 and CA-15 with same due dates as this CA.

Subresponse :**Closure Comments:**

CA Number: 7

Group	Name
Eng Project Mgmt	Schwartz,Geoffrey E
Eng Project Mgmt	Schwartz,Geoffrey E

Assigned By: Eng Project Mgmt

Schwartz,Geoffrey E

Assigned To: Eng Project Mgmt

Schwartz,Geoffrey E

Subassigned To :

Originated By: Schwartz,Geoffrey E

10/3/2005 08:47:50

Performed By: Schwartz,Geoffrey E

11/5/2005 09:10:56

Subperformed By:

Approved By:

Closed By: Schwartz,Geoffrey E

11/5/2005 09:10:56

Current Due Date: 11/18/2005

Initial Due Date: 11/18/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Determine necessity and methodology for monitoring and capturing Unit 2 SFP liner leakage. CA closure requires initiation of an Engineering Request (ER) for design and implementation of a monitoring/capture system which cannot be cancelled without Director of Engineering approval, or attachment of a documented justification for not implementing a monitoring and/or capture system, approved by the Director of Engineering.

Response:

Replaced by new CA-13 with identical wording and due date so that it could be assigned to Mechanical/Civil Design Engineering.

Subresponse :

Closure Comments:

CA Number: 8

Group

Name

Assigned By: Eng Project Mgmt

Schwartz,Geoffrey E

Assigned To: Design Eng Civil/Str Staff

Skonieczny,John F

Subassigned To :

Originated By: Schwartz,Geoffrey E

10/3/2005 08:49:48

Performed By: Skonieczny,John F

10/5/2005 06:27:37

Subperformed By:

Approved By:

Closed By: Skonieczny,John F

10/5/2005 06:27:37

Current Due Date: 10/21/2005

Initial Due Date: 10/21/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Finalize SFP wall rebar condition and structural strength margin calculation.

Response:

The structural calculation for the South wall of the Spent Fuel Pool Pit structure that addresses the affects of the discovered cracks and seepage has been completed. The calculation, which was performed by ABS Consulting, has been reviewed and approved by Entergy and assigned calculation number IP-CALC-05-00952. The calculation has been submitted to the Records Custodian for incorporation into MERLIN.

This completes actions required for this CA.

Subresponse :

Closure Comments:

CA Number: 9

Group

Name

Assigned By: Eng Project Mgmt

Schwartz,Geoffrey E

Assigned To: P&C Eng Manager

Tesoriero,Michael V

Subassigned To : P&C Eng Codes Mgmt

Azevedo,Nelson F

Originated By: Schwartz,Geoffrey E

10/3/2005 08:51:59

Performed By: Azevedo,Nelson F

11/8/2005 14:34:11

Subperformed By: Azevedo,Nelson F

11/8/2005 14:33:41

Approved By:

Closed By: Azevedo,Nelson F

11/8/2005 14:34:11

Current Due Date: 11/18/2005

Initial Due Date: 11/18/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Inspect inside of Unit 3 SFP liner leak detection piping to determine if it is obstructed. If obstructions are found, CA closure requires initiation of Work Order which cannot be cancelled without Director of Engineering approval, to ensure obstructions are removed.

Response:

See sub response below.

Subresponse :

The Unit 3 SFP liner was inspected by inserting a 19' long video probe into the pipe. No obstructions were found during this inspection. In addition, since the drain pipe is longer than 19' (it appears to be approximately 37' to 38' long) and a clear image could not be obtained much beyond the end of the probe, a metal snake was also inserted into the drain pipe. This snake was inserted approximately 37.5' and no obstructions were encountered. Minor amount of water were also found in the pipe which would further confirm the absence of blocking of the piping. Based on this information, it is concluded that no obstructions were found during this inspection.

Closure Comments:

CA Number: 10

Group	Name
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Assigned By: Eng Project Mgmt

Schwartz,Geoffrey E

Assigned To: Radiation Protection Mgmt

Axelson,William L

Subassigned To : Radiation Protection Staff

Lavera,Ronald

Originated By: Schwartz,Geoffrey E

10/3/2005 08:54:46

Performed By: Axelson,William L

12/15/2005 05:26:1C

Subperformed By: Lavera,Ronald

12/13/2005 13:37:42

Approved By:

Closed By: Axelson,William L

12/15/2005 05:26:1C

Current Due Date: 12/16/2005

Initial Due Date: 12/16/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Issue report characterizing environmental contamination extent and off-site dose impact of this issue.

Response:

approved for closure per LI-102

Subresponse :

See the attached report and bounding calculation. Action Completed.

Closure Comments:**Attachments:**

Subresp Description

Dose Report IPEC-CHM-05-042

RAD IMPACT EVALUATION OF WATER Leak IP-2

CA Number: 11

Group	Name
System Eng Primary System Staff	Johnson,Matthew R
System Eng Primary System Staff	Johnson,Matthew R

Assigned By: System Eng Primary System Staff

Johnson,Matthew R

Assigned To: System Eng Primary System Staff

Johnson,Matthew R

Subassigned To :

Originated By: Johnson,Matthew R

10/25/2005 08:46:57

Performed By: Johnson,Matthew R

10/25/2005 08:50:15

Subperformed By:

Approved By:

Closed By: Johnson,Matthew R

10/25/2005 08:50:15

Current Due Date: 10/26/2005

Initial Due Date: 10/26/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

CA to attach position paper written by system engineering on additional mass balance testing to help quantify leak rate from pool.

Response:

attached is position paper written by system engineering. Purpose of the paper was to evaluate a mass balance method of testing the SFP for additional leakage to what was already found. The paper gives both positive and negative aspects of such a test and gives the opinion of system engineering.

Subresponse :

Closure Comments:

Attachments:

Resp Description

SFP test position paper

CA Number: 12

Group

Name

Assigned By: CRG/CARB/OSRC

Tumicki,Michael L

Assigned To: Eng Project Mgmt

Schwartz,Geoffrey E

Subassigned To :

Originated By: Tumicki,Michael L

11/3/2005 12:15:22

Performed By: Schwartz,Geoffrey E

11/7/2005 15:40:06

Subperformed By:

Approved By:

Closed By: Reynolds,Joseph A

11/7/2005 15:59:25

Current Due Date: 11/15/2005

Initial Due Date: 11/15/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

The CAT B report was presented to and accepted with minor edit by the CARB on 11/01/05. The CARB provided the following feedback needing to be resolved.

(1) The CARB requested a new CA be assigned to assess what action(s) can be put in place with triggers to detect future potential leakage. Based on this review the owner should issue additional CAs as necessary to ensure actions from the assessment are put in place.

This new CA was assigned to the owner to enable the documentation of the action performed and attach the report revision to resolve the CARB feedback.

CA REFERENCE ITEMS:

Type Code

Description

CARB-ACCEPT W-EDIT

Minor

Response:

See new CA-16, assigned to Radiation Protection (Rad Engineering) Supervisor, to describe the monitoring wells and sampling protocol presently being implemented to detect potential Unit 2 spent fuel pool leakage.

Subresponse :

Closure Comments:

Per CA&A review, noted the response resolved the assigned action, therefore this CA closed.

CA Number: 13

Group	Name
Assigned By: Eng Project Mgmt	Schwartz,Geoffrey E
Assigned To: Design Eng Mgmt	Drake,Richard S
Subassigned To : Design Eng Civil/Str Staff	Nuta,Dragos A

Originated By: Schwartz,Geoffrey E

11/5/2005 09:09:25

Performed By: Drake,Richard S

11/16/2005 13:54:46

Subperformed By: Nuta,Dragos A

11/16/2005 09:32:12

Approved By:

Closed By: Drake,Richard S

11/16/2005 13:54:46

Current Due Date: 11/17/2005

Initial Due Date: 11/17/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Determine necessity and methodology for monitoring and capturing Unit 2 SFP liner leakage. CA closure requires initiation of an Engineering Request (ER) for design and implementation of a monitoring/capture system which cannot be cancelled without Director of Engineering approval, or attachment of a documented justification for not implementing a monitoring and/or capture system, approved by the Director of Engineering.

Response:

Sub response is acceptable. Engineering Request ER No. IP2-05-26558 was developed and issued in response to this Corrective Action.

Action completed.

Subresponse :

In order to facilitate the handling of Spent Fuel Casks, the area south of the Spent Fuel Pool, consisting of a concrete slab supported onto a rock foundation medium, had to be excavated in order to implement a reinforced concrete design that will provide proper anchorage and support for the crane handling the casks. During the excavation activities in the Fuel Storage Building Truck Loading Bay, located south of the Spent Fuel Pool, the rock drilling required the use of rather large amounts of water. Whenever drilling was in close proximity to the south wall of the Spent Fuel Pool, moist areas of the pool wall exposed after the rock removal normally dried out rather quickly. As rock was removed below Elevation 65', a mostly horizontal hairline crack was exposed. Over a length of approximately 9'-2", the westernmost portion of this hairline crack remained moist. As the excavation continued, another mostly horizontal hairline crack at approximately Elevation 59'-11" did not dry out upon being exposed and a section approximately 3'-4" in length remained damp. As a result, on September 1 2005 Condition Report CR-IP2-2005-03557 was written. In the beginning of the problem description, the Condition Report stated that "A hairline crack several feet in length was found at approximately 60 foot level of Unit 2 spent fuel pool south wall on the loading bay side. The crack has evidence of liquid seepage with trace amounts of cesium 134. This was found during excavation associated with the dry cask storage project." As there was no actual leakage from the damp cracks, a small tent with a collection point was installed over the damp areas. Amounts of condensed fluid for one day were in the 500 ml range. In late September, a larger tent, covering both the upper and lower moist cracks was installed, and the daily condensation amount increased to approximately 1500 ml.

The area from where the leakage is being collected shall be covered by compacted sand backfill to support installation of a crane that will allow handling of the dry casks. The temporary collection system needs to be replaced with a permanent collection system. As such, an ER is needed to develop a modification that will replace the temporary tenting over the moist concrete cracks area with a Stainless Steel container, and provide a drain and vent line that will facilitate the collection of condensate from the area where crack dampness was observed.

The permanent liquid collection system should consist of a collection box attached to the Spent Fuel Pool wall over the area where dampness was observed, a drain line routed to the PAB/Fan House Pipe Pen area to facilitate the liquid collection, and a vent line to facilitate drainage of the sealed box. The ER should indicate that, in terms of basic functions, critical characteristics and performance requirements, the liquid collection assembly must (1) cover the entire area where damp cracks were observed to exist, (2) support a boroscope inspection of the box and damp area of the Spent Fuel Pool wall, (3) provide for storage of a 30-day collection volume, with the daily volume collected being in the 1300 milliliters range. The liquid collection assembly must also (4) minimize any potential impacts on Fire and Accident Analyses, (5) provide for a safe installation, and (6) facilitate sampling by Chemistry.

Engineering Request ER No. IP2-05-26558 was developed and issued in response to this Corrective Action (DA Nuta 11 16 2005)

Closure Comments:

CA Number: 14

Group	Name
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Assigned By: Eng Project Mgmt

Schwartz,Geoffrey E

Assigned To: P&C Eng Programs Mgmt

Azevedo,Nelson F

Subassigned To :

Originated By: Schwartz,Geoffrey E

11/5/2005 09:14:51

Performed By: Azevedo,Nelson F

11/16/2005 14:23:44

Subperformed By:

Approved By:

Closed By: Azevedo,Nelson F

11/16/2005 14:23:44

Current Due Date: 11/17/2005

Initial Due Date: 11/17/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Perform a remote video inspection of the accessible sections of the spent fuel pool liner to identify the potential sources of the existing leakage. Any susceptible locations should be further investigated with a vacuum box or other similar method.

Response:

A remote visual inspection of the accessible areas of the spent fuel pool liner has been performed to try to locate the potential source of the minor leakage detected through the defect on the south wall. This inspection covered the cask loading area and the portions of the pool walls/liner above approximately 2 feet above the top of the fuel assemblies (i.e. areas where cameras could withstand the radiation dose). These inspections (WO IP2-05-25553) identified three locations with brown staining which could be the source of the existing leakage. Following this remote visual examination, a diver entered the pool and performed a vacuum box test of the upper two indications. No detectable leakage was found during this inspection. The third location is scheduled to be vacuum box tested on November 17, 2005. The final inspection results will be documented in WO IP2-05-26214.

Subresponse :**Closure Comments:**

CA Number: 15

Group**Name**

Assigned By: Eng Project Mgmt

Schwartz,Geoffrey E

Assigned To: Design Eng Mgmt

Drake,Richard S

Subassigned To : Design Eng Civil/Str Staff

Bhalla,Gopal K

Originated By: Schwartz,Geoffrey E

11/5/2005 09:20:16

Performed By: Drake,Richard S

11/16/2005 13:51:36

Subperformed By: Bhalla,Gopal K

11/16/2005 12:53:13

Approved By:

Closed By: Drake,Richard S

11/16/2005 13:51:36

Current Due Date: 11/17/2005

Initial Due Date: 11/17/2005

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Determine methodology for repairing the liner discontinuity or discontinuities that are allowing the observed leakage. CA closure requires initiation of an ER or repair Work Order which cannot be cancelled without Director of Engineering approval, and/or attachment of a documented justification for not implementing repairs, approved by the Director of Engineering.

Response:

Sub-response is acceptable. Engineering Evaluation will apply a coating repair to the Fuel pool. Coating will be applied on Thursday Nov 17.

Subresponse :

Engineering Request IP2-05-26413 has been initiated and is being evaluated to apply a coating of epoxy material Bio-Dur 561 over the weld anomalies found during the video inspection.
This CA can be closed.

Closure Comments:

CA Number: 16

Group**Name**

Assigned By: Eng Project Mgmt

Schwartz, Geoffrey E

Assigned To: Radiation Protection Mgmt

Axelson, William L

Subassigned To :

Originated By: Schwartz, Geoffrey E

11/7/2005 15:37:41

Performed By: Axelson, William L

1/24/2006 12:32:13

Subperformed By:

Approved By:

Closed By: Axelson, William L

1/24/2006 12:32:13

Current Due Date: 02/01/2006

Initial Due Date: 02/01/2006

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

During CARB review of the Lower-Tier Apparent Cause Report, the CARB Chairman requested that a new CA be written to assess what action(s) can be put in place with triggers to detect future potential leakage. This CA is intended to address that request. CA response should describe actions implemented (monitoring wells and sampling protocol).

Response:

Currently, IPEC is conducting weekly samples from all four monitoring wells located in the unit 2 transformer yard to track and trend suspected ground water leakage from the FSB or PAB--that data is sufficient to detect any significant increase in ground water contamination from the unit 2 SFP--The data is reviewed by the special IPEC team weekly and discussed internally with RP and Chemistry--Additional wells are currently being installed to further characterize the HTO plume and quantify its concentration, flow rate and direction--Also a long term well monitoring plan is being developed per CR-IP2-2005-3986 and as such tracked to that CR No further actions necessary here as the reference CR will capture long term corrective actions for the HTO monitoring plan and remediation if necessary

Subresponse :

Closure Comments:

CA Number: 17

Group

Name

Assigned By: Operations Tech Support Staff

Main,Dennis E

Assigned To: Operations Tech Support Staff

Main,Dennis E

Subassigned To :

Originated By: Main,Dennis E

11/9/2005 09:40:59

Performed By: Main,Dennis E

11/9/2005 09:42:13

Subperformed By:

Approved By:

Closed By: Main,Dennis E

11/9/2005 09:42:13

Current Due Date: 11/10/2005

Initial Due Date: 11/10/2005

CA Type: ODMI

Plant Constraint: #NONE

CA Description:

Attach rev 1 of ODMI (rev 1 contains addendum approved by CRG 11/9/05)

Response:

Rev 1 of ODMI attached.

Subresponse :

Closure Comments:

Attachments:

Resp Description
ODMI rev 1

CA Number: 18

Group	Name
-------	------

Assigned By: Licensing Mgmt

Jones, Terry R

Assigned To: WPO Eng Support Staff

Bode, Paul M

Subassigned To :

Originated By: Jones, Terry R

11/18/2005 14:04:24

Performed By: Bode, Paul M

1/17/2006 20:57:35

Subperformed By:

Approved By:

Closed By: Bode, Paul M

1/17/2006 20:57:35

Current Due Date: 01/19/2006

Initial Due Date: 01/19/2006

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Perform KT Analysis. Incorporate trend data from samples being taken.

Response:

KT continues to be updated. U1 SFP and the U2 RWST are not likely to be the source of the groundwater tritium based on the concentration gradient observed in the plume.

Work continues to characterize possible sources. Well installation and inspections of possible sources such as sumps continues. The "performance" of the KT will continue as requested until well installation is complete, and the strategy to characterize the plume is complete. An action is being entered to status the KT at the completion of well installation.

Subresponse :

Closure Comments:

CA Number: 19

Group

Name

Assigned By: Licensing Mgmt

Jones, Terry R

Assigned To: Licensing Mgmt

Jones, Terry R

Subassigned To :

Originated By: Jones, Terry R

11/18/2005 14:20:10

Performed By:

Subperformed By:

Approved By:

Closed By:

Current Due Date: 03/29/2006

Initial Due Date: 03/30/2006

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Following complete of KT send info to INPO for generic applicability and send same data to NRC.

Response:

Subresponse :

Closure Comments:

Corrective Action : CR-IP2-2005-03557 CA-00019

Version: 1

Approved:

Requested Duedate: 03/30/2006

Previous Duedate: 02/01/2006

Requested By: Jones, Terry R

01/31/2006

Approved By: Jones, Terry R

01/31/2006

Request Description:

The completion of this CA is based on the completion of the K/T associated with the Unit 2 Spent Fuel Pool leak. The K/T will not be complete until all monitoring wells are complete and the source of any leakage is identified. Extension of the CA will not cause any regulatory or administrative violations/problems.

Approved Description:

CA Number: 20

Group**Name**

Assigned By: Licensing Staff

Croulet,Donald K

Assigned To: WPO Eng Support Staff

Bode,Paul M

Subassigned To :

Originated By: Croulet,Donald K

2/6/2006 14:08:06

Performed By: Bode,Paul M

2/10/2006 10:51:26

Subperformed By:

Approved By:

Closed By: Croulet,Donald K

2/14/2006 05:31:23

Current Due Date: 02/14/2006

Initial Due Date: 02/14/2006

CA Type: ACTION

Plant Constraint: #NONE

CA Description:

Prepare preliminary cause analysis report utilizing data from KT analysis, project status and actions.

Response:

Complete and attached.

Subresponse :

Closure Comments:

Attachments:

Resp Description

Signatures

Document

Corrective Action : CR-IP2-2005-03557 CA-00020

Version: 1

Approved:

Requested Duedate: 02/14/2006

Previous Duedate: 02/10/2006

Requested By: Lewandowski,Paul R

02/09/2006

Approved By: Croulet,Donald K

02/09/2006

Request Description:

Extention necessary to allow additional time of completion of assessment. Entered at request of IPEC Licensing (TRJ)

Approved Description:

Approval based on request.

CALCULATION SUMMARY PAGE		Page 1B of 93
Calculation No. <u>IP-CALC-05-00952</u> No. _____	Revision _____	
CALCULATION OBJECTIVE: See Page 7 of Calculation		
CONCLUSIONS: See Page 20 of Calculation		
ASSUMPTIONS: See Page 10 of calculation		
DESIGN INPUT DOCUMENTS: See page 10 & 22 of calculation		
AFFECTED DOCUMENTS: NA		
METHODOLOGY: See page 11 of calculation		

	NUCLEAR MANAGEMENT MANUAL	QUALITY RELATED	ENN-DC-126	REV. 5
		INFORMATIONAL USE	PAGE 36 OF 61	

ATTACHMENT 9.7

CALCULATION IMPACT REVIEW PAGE

CALCULATION IMPACT REVIEW PAGE

Date: 10-04-05

QR NQR

(Note: X indicates required distribution)

- To:
- Mechanical Engineering
 - I&C Engineering
 - Electrical Engineering
 - Civil Engineering
 - System Engineering
 - Reactor Engineering
 - DBD Owner _____
 - DBD Owner _____
- (Name)

- Licensing
- Elect Maintenance
- I&C Maintenance
- Mech Maintenance
- Component Engineering
- Program Engineering
- Nuclear Engineering
- EQ

- Operations
- Chemistry
- HP/Radiological
- Computer Applications
- Rad Engineering
- ISI Engineering
- IST Engineering
- PSA

(Other)

From: John F. Skonieczny x7772
(Originator Print Name and Phone extension)

Calculation No.: IP-CALC-05-00952

Revision No. 0

Title: Study of Potential Concrete Reinforcement Corrosion on the Structural Integrity of the Spent Fuel Pit

Reference: NA

Date Response Required: 10/04/05

MESSAGE: Work organizations are requested to review the subject calculation (parts attached) to identify impacted calculations, procedures, Technical Specifications, FSAR sections, other design documents (e.g., EQ files, DBD, Appendix R, ISI/IST, PSA, MOVs/AOVs, etc.) and other documents, which must be updated because of the calculation results. Also provide the name of the individual responsible for the action and the tracking number (for example, via WT features in PCRS). The tracking item should include a requirement to ensure that any ER implementation associated with the item is completed prior to revising the impacted document. Sign and return the form to the originator.

IMPACT REVIEW RESULTS:

Affected Documents	Responsible Individual	Tracking Number	Remarks
NA	John F. Skonieczny <i>[Signature]</i>	NA	See Below

Responding Supervisor/Manager (or designee): *[Signature]* 10/4/05
Name/Signature Date

This calculation is an analysis of an as-found condition only. This calculation does not change any design or affect any basis document associated with the Spent Fuel Pool Pit.

