DiabloCanyonNPEm Resource

From: Sizemore, Brandy [BNSM@pge.com]
Sent: Monday, January 24, 2011 12:25 PM
To: Pick, Greg
Cc: Grebel, Terence; Tan, Miranda
Subject: RE: Notifications and other general questions
Attachments: Summary Status of Regional Inspection Notifications.xls; SAPN 50313350.pdf; SAPN 50333175.pdf; SAPN 50335453.pdf; SAPN 50336850.pdf; SAPN 50341482.pdf; SAPN 50341635.pdf; SAPN 50341709 (DN 50341482).pdf; SAPN 50341717.pdf; SAPN 50341749.pdf; SAPN 50341752.pdf; SAPN 50341848.pdf; SAPN 50341874.pdf; SAPN 50341877.pdf; SAPN 50341879.pdf; SAPN 50341911.pdf; SAPN 50341964 (DN 50341749).pdf; SAPN 50341966 (DN 50341752).pdf; SAPN 50342570 (DN 50341848).pdf; SAPN 50342573 (DN 50341874).pdf; SAPN 50342574 (DN 50341877).pdf; SAPN 50342575 (DN 50341879).pdf; SAPN 50344181 (DN 50341911).pdf; SAPN 50359698.pdf; SAPN 50360132 (DN 50359698).pdf

Hello Greg,

Attached is a summary of the status of the notifications listed below. I also attached the notifications. Some of them were changed from a DN to a DA so I attached both. Please let me know if you have any questions.

Thanks
Brandy Sizemore

From: Pick, Greg [mailto:Greg.Pick@nrc.gov]
Sent: Tuesday, January 11, 2011 12:33 PM
To: Grebel, Terence
Cc: Sizemore, Brandy
Subject: Notifications and other general questions

Good morning,

I have listed the Notifications that are discussed in the inspection report and would like updated copies of the Notifications and any corrective actions taken, completed or planned.

50313350
50333175
50335453
50336850
50341482
50341635
50341717
50341749
50341752
50341848
50341874
50341877
50341879

50341911
50359698

As a ballpark figure – how many components are listed in the LR Database created in preparation for the application? I figure 10s of thousands but do not really know.

How many of your license renewal programs had no proposed or draft procedures developed?

Did you create a Master Tracking Notification or matrix for your programs? If so could I get a copy?

Do you have a notification tracking the long term plan?

Do you know the number of individual requests for information that you have received, including followup requests? I know that you have ~200 Requests for Information without counting followup questions?

Have a great day!!

Hearing Identifier: DiabloCanyon_LicenseRenewal_NonPublic
Email Number: 2446

Mail Envelope Properties (D776CF09EA15C644831E2FD16142395602B065D1)

Subject: RE: Notifications and other general questions
Sent Date: 1/24/2011 12:24:43 PM
Received Date: 1/24/2011 12:24:55 PM
From: Sizemore, Brandy

Created By: BNSM@pge.com

Recipients:
"Grebel, Terence" <TLG1@pge.com>
Tracking Status: None
"Tan, Miranda" <M1TF@pge.com>
Tracking Status: None
"Pick, Greg" <Greg.Pick@nrc.gov>
Tracking Status: None

Post Office: exchange18.Utility.pge.com

Files	Size	Date & Time
MESSAGE	1567	1/24/2011 12:24:55 PM
Summary Status of Regional Inspection Notifications.xls	29760	
SAPN 50313350.pdf	27672	
SAPN 50333175.pdf	11191	
SAPN 50335453.pdf	11086	
SAPN 50336850.pdf	21027	
SAPN 50341482.pdf	11262	
SAPN 50341635.pdf	15979	
SAPN 50341709 (DN 50341482).pdf	10695	
SAPN 50341717.pdf	14447	
SAPN 50341749.pdf	22203	
SAPN 50341752.pdf	11352	
SAPN 50341848.pdf	11151	
SAPN 50341874.pdf	11544	
SAPN 50341877.pdf	11124	
SAPN 50341879.pdf	11407	
SAPN 50341911.pdf	13673	
SAPN 50341964 (DN 50341749).pdf	32653	
SAPN 50341966 (DN 50341752).pdf	15720	
SAPN 50342570 (DN 50341848).pdf	10534	
SAPN 50342573 (DN 50341874).pdf	19376	
SAPN 50342574 (DN 50341877).pdf	10436	
SAPN 50342575 (DN 50341879).pdf	11763	
SAPN 50344181 (DN 50341911).pdf	10842	
SAPN 50359698.pdf	11409	
SAPN 50360132 (DN 50359698).pdf	11359	

Options
Priority: Standard
Return Notification: No
Reply Requested: No

Sensitivity: Normal
Expiration Date:
Recipients Received:

Regional Inspection Notifications

Item	SAPN # (DN)	SAPN # (DA)	Due Date	Plant	LR	Summary of Status
Containment strain gauges cover plates evaluation to maintain water tight seal	50341635		5/1/2011	Wong/ Zaitz	Duke	Civil will create maintenance plan to monitor strain gauges and cover plates. Will also issue a design change.
System 25 Elastomer Hoses	50336850	50336850	Closed	Kubran		PMs created to replace elastomer hose from backup air bottles to hard piping every 10 years. Therefore no aging management required.
AD7.DC8 & AWP E-016 Enhancement - inspection of below grade structures and cable supports/restraints inspection guidelines	50313350	50313350	9/1/2011	Horstman	Duke	AWP E-016 will be revised to enhance inspection guidelines. Additional tasks in progress.
Re-evaluate CCW inspection criteria	50341717		3/31/2011	Juarez	Sizemore	Mike Wright to discuss with Sab.
230 kV and 500 kV switchyard structure evalaution and house keeping	50341749	50341964	2/18/2011	Goryance	Bowen	50341749 (DN) was closed to DA 50341964. The civil structural evaluations were completed on task 2. Insulator evaluations were completed on task 3. Task 4 is only remaining action. These tasks address the NRC concern. Task 4 will be evaluated for creating a PM to replace/change the insulators in the switchyard. Set the due date to within 5 years and set the frequency to 25 years.
Evaluate selective leaching AMP - one time vs. periodic inspection based on OE	50341752	50341966	Closed	Beard	Braico	Included in DCL-10-164
Error in LRA - disconnect numbers vs. switchyard breaker numbers	50341482	50341709	Closed	Goryance	Tan	Included as part of annual update. DCL-10-158

Green - Complete
Red - Oustanding

Regional Inspection Notifications

Item	SAPN # (DN)	SAPN # (DA)	Due Date	Plant	LR	Summary of Status
Evaluate one time inspection program sample size	50341874	50342573	Closed	Beard	Whiteley	This is being tracked by notification 50332273 for the OTI program. Due date for this notification 12/31/17. Developed as part of implementation plan. (Target date December 2011)
Evaluate LR App. J and IWE AMPs	50341877	50342574	4/30/2011	Holtz	Duke	Drafted changes, scheduled to be complete by end of April.
Component material ref in SAP - Unit 2 AIR-I-I-1231A regulator material discrepancy	50341879	50342575	Closed	N/A	Gibbons	Material was correctly classified in LRA. No further action necessary.
Material type in LRA for diesel pump-PVC	50341911	50344181	Closed		Braico	Resolved as part of the annual update. DCL-10-158
Scoping of turbine building components	50341848	50342570	Closed		Gibbons	This was addressed by submittal DCL-10-132 dated 10-12-2010.
Training system engineers on method of monitoring external corrosion	50335453		12/31/2011	Frantz	Sizemore	Evaluating training methods to be provided to system engineers.
LR commitment #17 added thermograph quality record	50333175		12/31/2011	Goryance	Tan	Need to develop an implementation plan for Metal Enclosed Bus. Target date December 2011
Revise MA1.ID20 to align with LRA	50359698	50360132	3/31/2011	Anastasio	Braico	Procedure revision scheduled by 03/31/2011. Anastasio awaiting direction from Dunlap for prioritization.

Green - Complete
Red - Oustanding

U-0

Notification: **50313350** Type: **DA** Work Type: **DOCUM ADMN**

Description: **LTCA -LRA Inspect..: AD7.DC8 Enhancement**

Order:

Funct. Loc: **DC-0** **U0**

Reported By: **WRH5** William (Bill) R. Horstman Rpt By Work Ctr: **EDC**

Contact Info: **WRH5** William (Bill) R. Horstman 805/545-6628 Created On: **29 Apr 10 15:26**

Planner Group:

Main Wrk Ctr: **EDC-012** Engineer

PROBLEM DESCRIPTION

04/29/2010 15:26:33 Jana M. Orlando (JMSO) Phone 805/545-3126
04/26/2010 13:53:41 W. Horstman (WRH5) Phone 805/545-6628
During the NRC's License Renewal Application Inspection of the Aging Management Program (AMP) for structures (AMP XI.S6), the following Request for Additional Information (RAI no. B2.1.32-32 b) was given to PG&E as a draft:

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"Due to high chloride ambient environment at DCPP and indications of concrete cracking, spalling, and delaminations, and steel reinforcement corrosion noted in Program Element 10, Operating Experience, for several structures provide any plans for opportunisitic inspections of below-grade structures."

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In order assure that inspections of below-grade structures (e.g, belwo grade portions of structures, foundations, vaults, utility boxes, etc.) will be performed at the time that they are exposed in excavations for any reason, PG&E will enhance procedure AD7.DC8 (Work Control) to include a holdpoint for Civil Engineering inspections. This is classified as an enhancement to the procedure for the LRA and is not intended to address a current procedural deficiency.
04/28/2010 10:18:01 David G. Wong (DGW1) Phone 805/545-6546
As the civil engineering supervisor, I concur with the identification of

Event Date **26 Apr 10** Notif Required By **01 Sep 11** Station Sig.: **3 Work Group Eval**

the above request to enhance AD7.DC8 to include a holdpoint for Civil Engineering inspections of below grade SSCs. This is considered to be a procedural enahncement and there are no issues with the current procedure.

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Notification is assigned to the responsible engineer for action.

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04/29/2010 15:26:28 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT.

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DN closed to DA.

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05/03/2010 07:50:27 Jana M. Orlando (JMSO) Phone 805/545-3126
Per the 4/29/10 NRT, change the required by date from 12/31/2010 to 10/26/2010.

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05/24/2010 14:31:52 W. Horstman (WRH5) Phone 805/545-6628

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Reassigned to License Renewal Project at the direction of the Civil Design Engineering Supervisor for resolution.

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09/08/2010 12:44:28 Kyle Duke (KADB) Phone 805/550-6311

Upon further discussion with the Work Planning Group, License Renewal Group, and Civil Design Engineering Group, an action plan was developed to further enhance our progress of this licensing commitment.

The following actions will be taken to carry out our commitment:

* License Renewal will provide an excel spreadsheet containing a list of all in-scope pullboxes for both License Renewal, and Maintenance Rule

to the Work Planning Group.

* Work Planning will create/assign and FLOC (Physical Location ID) for each box.

* A classification will be created for each pullbox cover in LR and MR.

* A program will be created (IT). Under SAP, an operation will be created when a work order hits on box/cover.

* Change management will occur for procedure AD7.DC8 revisions to include this commitment and civil engineering will support 24 hour scheduling to inspect when a box is open.

Actions are currently being taken on these items. However, due to personnel scheduling issues with the upcoming refueling outage, due dates for these actions will be pushed back a few months after the outage. This SAPN will be updated with tasks created and assigned to the appropriate personnel.
09/14/2010 17:17:03 Kyle Duke (KADB) Phone 805/550-6311

During week two of the NRC regional inspections, a question was raised in regards to cable supports/restraints as well as various ties and wraps that are used to provide assurance that the cables will not come into contact with the bottom of the pullbox.

Currently, maintenance rule inspectors are not responsible to assess the condition of the cable or its location in the box. It has been determined that during maintenance rule inspections, and in addition to current inspection guidelines, inspectors will be required to look at the cables and verify that no drooping/sagging below 12 inches from the bottom of the box is occuring. If such drooping/sagging is identified, the electrical group will be immediately contacted to conduct their own assessment of the cable. These new inspection requirements will be included in plant procedure AWP E-016.

Procedure AWP E-016, Appendix 7.4, Section 8 will be revised to include the following inspection guidelines:

* Verify that drooping/sagging of the cable below 12 inches from the bottom of the pullbox is not occuring. If such sagging is identified, contact electrical group for further evaluation.
09/15/2010 16:54:42 Kyle Duke (KADB) Phone 805/550-6311

NRC inspector has asked us to include requirements to inspect cables for visible indications of damage or degradation paying particular attention to entrance, exit and support points. Contact electrical engineering if any degradation is noted.

11/17/2010 09:13:11 Kyle Duke (KADB) Phone 805/550-6311
PG&E letter DCL-10-077 is the document that is driving the commitment for the procedure revision to include the hold point engineering to inspect pull boxes as they are opened.

The second commitment in the body of this notification regarding the procedure revision of AWP E-016 will be included in table A-4 of the License Renewal Application.
11/29/2010 13:18:54 W. Horstman (WRH5) Phone 805/545-6628
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*** Long Term Corrective Action:
.
The actions associated with the resolution of this notification (e.g., procedural changes, FLOC creations, scope identification, etc.) are required as part of the License Renewal process, not as part of the current operating license for DCPP. As such, the completion of these actions is required prior to the start of the period of extended operation for DCPP (circa 2024), and can be classified as Long Term Corrective Actions in accordance with OM7.iD1, Section 10.6 (classified as a Sginificant Programmatic Change per Item 10.6.1e).
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U-0

Notification: **50313350** Type: **DA** Work Type: **DOCUM ADMN**

Description: **LTCA -LRA Inspect..: AD7.DC8 Enhancement**

Order:

12/16/2010 13:33:18 Paul L. Johnson (PLJ6) Phone 805/545-4812

12/16/2010 16:47:19 Paul L. Johnson (PLJ6) Phone 805/545-4812
LTCA approval authorized by Engineering Director on 12/16/2010.

STATUS DETAILS

System Status: **NOPR NOPT OSTS**

User Status: **25** **ASGN** Assigned to Target Workcenter

Task # 1 Provide list of boxes to Work Planning

Status: **TSCO**	Task Completed		
Code Group:			
Task Code:			
Responsible: **User Responsible**	**KADB** Kyle Duke	**805/550-6311**	
Work Ctr: **PL**	Project Manager - License Renewal		
Created On: **17 Nov 10**	By: **KADB** Kyle Duke		
Planned Start: **17 Nov 10**	Planned Finish: **25 Nov 10**		
Completed On: **22 Nov 10 00:00**	By: **KADB** Kyle Duke	**805/550-6311**	

11/17/2010 09:00:03 Kyle Duke (KADB) Phone 805/550-6311
In order to begin assigning FLOCs to each pullbox, the work planning group must identify all necessary boxes that are in scope. This task is to provide a complete list of pullboxes that are in scope for both license renewal and maintenance rule.
11/22/2010 13:23:53 Patrick T. Nugent (PXN2) Phone 805/545-4701
Due date extended within 14 day initial assignment window.
11/22/2010 16:10:00 Kyle Duke (KADB) Phone 805/550-6311

Attached in this notification are documents containing the list of in-scope pull boxes for both License Renewal and Maintenance Rule. (See Attachments)

U-0

Notification: **50313350** Type: **DA** Work Type: **DOCUM ADMN**

Description: **LTCA -LRA Inspect..: AD7.DC8 Enhancement**

Order:

Task # 2 LTCA -Create/Assign FLOCS to pullboxes

Status: **TSOS**	Task Outstanding			
Code Group: **DE-ENG-T**	Diablo Engineering Tasks			
Task Code: **0025**	FLOC Review			
Responsible: **User Responsible**	**KADB**	Kyle Duke	**805/550-6311**	
Work Ctr: **EDC-012**	Engineer			
Created On: **17 Nov 10**	By: **KADB** Kyle Duke			
Planned Start: **20 Nov 10**	Planned Finish: **28 Feb 11**			
Completed On:	By:			

11/17/2010 09:03:37 Kyle Duke (KADB) Phone 805/550-6311
Upon recieving the complete list of pullboxes that are in scope for both license renewal and maintenance rule, the work planning group will create/assign an FLOC for each box.

Task # 3 LTCA -Create classification for each box

Status: **TSRL**	Task Released			
Code Group: **DE-ENG-T**	Diablo Engineering Tasks			
Task Code: **0025**	FLOC Review			
Responsible: **User Responsible**	**KADB**	Kyle Duke	**805/550-6311**	
Work Ctr: **EDC-012**	Engineer			
Created On: **17 Nov 10**	By: **KADB** Kyle Duke			
Planned Start: **20 Nov 10**	Planned Finish: **28 Feb 11**			
Completed On:	By:			

11/17/2010 09:07:10 Kyle Duke (KADB) Phone 805/550-6311
this task tracks the need to create a classification for each pullbox cover in LR and MR.

U-0

Notification: **50313350** Type: **DA** Work Type: **DOCUM ADMN**

Description: **LTCA -LRA Inspect..: AD7.DC8 Enhancement**

Order:

Task # 4 LTCA -Create program and operation

Status: **TSRL**	Task Released		
Code Group: **DG-EVAL**	DC General Evaluations		
Task Code: **EVAL**	Evaluate the following (See Long Text)		
Responsible: **User Responsible**	**KADB**	Kyle Duke	**805/550-6311**
Work Ctr: **EDC-012**	Engineer		
Created On: **17 Nov 10**	By: **KADB** Kyle Duke		
Planned Start: **20 Nov 10**	Planned Finish: **28 Feb 11**		
Completed On:	By:		

11/17/2010 09:09:41 Kyle Duke (KADB) Phone 805/550-6311
this task tracks the need for the IT department to create a program. Under SAP, an operation will be created when a work order hits on the box/cover.

Task # 5 LTCA -Change management for revision

Status: **TSRL**	Task Released		
Code Group: **DG-EVAL**	DC General Evaluations		
Task Code: **EVAL**	Evaluate the following (See Long Text)		
Responsible: **User Responsible**	**KADB**	Kyle Duke	**805/550-6311**
Work Ctr: **EDC-012**	Engineer		
Created On: **17 Nov 10**	By: **KADB** Kyle Duke		
Planned Start: **20 Nov 10**	Planned Finish: **28 Feb 11**		
Completed On:	By:		

11/17/2010 09:11:54 Kyle Duke (KADB) Phone 805/550-6311
This task tracks the need for change management to occur for procedure AD7.DC8 revisions to include this commitment and civil engineering will support 24 hour scheduling to inspect when a bos is opened.

U-0

Notification: **50313350** Type: **DA** Work Type: **DOCUM ADMN**

Description: **LTCA -LRA Inspect..: AD7.DC8 Enhancement**

Order:

Task # 6 LTCA -LRA Pullbox Inspections; LTCA Appr

Status: **TSCO**	Task Completed
Code Group:	DC General Evaluations
Task Code:	Evaluate the following (See Long Text)
Responsible: **User Responsible**	
Work Ctr: **ED**	Manager - Design Engineering
Created On: **29 Nov 10**	By: **WRH5** William (Bill) R.
Planned Start: **29 Nov 10**	Planned Finish: **24 Dec 10**
Completed On: **20 Dec 10 00:00**	By: **RLK1** Richard L. Klimczak **805/545-6513**

11/29/2010 13:24:55 W. Horstman (WRH5) Phone 805/545-6628
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Please review the scheduling of the resolution of this notification as a long-term corrective action per OM7.ID1, Section 10.6. Rationale for LTCA designation is described in the Long Text entry dated 11/29/2010.
.
12/14/2010 08:53:10 W. Horstman (WRH5) Phone 805/545-6628
.
Per discussion with Civil Design Engineering Supervisor, a completion date of 12/31/2012 is proposed.
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12/20/2010 14:29:29 Richard L. Klimczak (RLK1) Phone 805/545-6513
I concur with LTCA designation. Note: Per entry in body of this notification LTCA designation approved by Engineering Director on 12/16/10.

Task # 7 LTCA -Develop FLOC designator

Status: **TSRL**	Task Released		
Code Group: **DE-ENG-T**	Diablo Engineering Tasks		
Task Code: **0060**	Procedure Change		
Responsible: **User Responsible**	**WRH5**	William (Bill) R.	**805/545-6628**
Work Ctr: **EDC-004**	Horstman Bill - WRH5		
Created On: **08 Dec 10**	By: **RSV1** Richard S. Viar		
Planned Start: **08 Dec 10**	Planned Finish: **15 Feb 11**		
Completed On:	By:		

12/08/2010 07:48:46 Richard S. Viar (RSV1) Phone 805/545-3059
TO effectively manage extension FLOCs selected for the purpose of License Extension and MRFF inspection candidates, a field must be

developed allowing flagging as said candidate. Upon creation, a modification to SAP will also be required similar to the CIV process, whereby an auto generated sub operation is created when the floc is selected thus eliminating the human error factor and ensuring that the required inspection candidates are identified.

DC

Notification: **50333175** Type: **DN** Work Type: **EVAL AANS**

Description: **LR Commitment Item #17**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **M1TF** Miranda Tan Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **09 Aug 10 14:01**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

08/09/2010 14:01:38 Miranda Tan (M1TF)
The License Renewal Application (LRA) for DCPP Units 1 and 2 was submitted on 11/23/09, DCL-09-079. This notification tracks imple mentation of LRA Table A4-1, License Renewal Commitments, Item #17.

Prior to the period of extended operation, DCPP will enhance the Metal Enclosed Bus (MEB) program:
"The existing bus work order inspection activities for inspection and testing of the MEBs will be proceduralized to include specific inspection scope, frequencies and actions to be taken when acceptance criteria are not met."

Procedure to implement:
Implement new procedure, TS1.DC1, License Renewal Electrical Aging Management.

The basis for this commitment can be found in LRA Section B2.1.36 and NUREG-1801, XI.E4, Metal Enclosed Bus, Technical Report.

DCPP Unit 1 and 2 operating licenses expire on 11/2/2024 and 08/26/2025 respectively. This commitment requires that new procedure TS1.DC1 be implemented prior to the period of extended operation.

Event Date **09 Aug 10** Notif Required By **31 Dec 11** Station Sig.: **5 Other**

08/10/2010 13:18:08 Robyn A. Goff (RAC3) Phone 805/545-3023
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

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11/08/2010 09:15:19 Miranda Tan (M1TF)
Procedure MP E-101A, Infrared Thermography Inspections, Section 2.10, states that thermal inspection program is not required for licensing or regulator compliance. LRA Section B2.1.36 required that maintenance of the thermal inspection results. Thermography is a quality record. Procedure MP E-101A, needs to be revised.

STATUS DETAILS

System Status: **NOPR**

User Status: **20** **APPV** Approved

DC

Notification: **50335453** Type: **DN** Work Type: **LRN PA**

Description: **LPA: Monitoring External Corrosion (SEs)**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **MKF4** Mark K. Frantz Rpt By Work Ctr: **EMP**

Contact Info: Created On: **18 Aug 10 19:31**

Planner Group:

Main Wrk Ctr: **EMP-000** Supervisor - Frantz Mark - MKF4

PROBLEM DESCRIPTION

08/18/2010 19:28:46 Mark K. Frantz (MKF4) Phone 805/545-4386
This notification is to request a line performance analysis be conducted to train/qualify System Engineers in methods of monitoring external corrosion. This skill set is necessary to effectively monitor the material condition of their systems in accordance with TS5.ID1. Training/Qualification is also a required element for the External Surfaces Monitoring Program (B2.1.20) and is to have special focus on the subject of aging effects on plant system and components, and the corresponding aging effects management methods.

EPRI Technical Report 1007933, Aging Assessment Field Guide, has been used in the past for similar training activities. This and other EPRI modules (i.e., 1010793) should be considered as source documents. Training/qualification should also align with the requirements of the specified AMP.
08/19/2010 13:11:01 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
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Event Date **18 Aug 10** Notif Required By **31 Dec 11** Station Sig.: **5 Other**

DC

Notification: **50335453** Type: **DN** Work Type: **LRN PA**

Description: **LPA: Monitoring External Corrosion (SEs)**

Order:

01/17/2011 10:36:50 Michael D. Wright (MDW4) Phone 805/545-4067

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Due date for this SAPN changed to 12/31/2011. This date has been agreed to with the LR team and the SAPN owner. It is the intent that the training program and schedule be determined by this date.

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STATUS DETAILS

System Status: **OSNO NOPT**

User Status: **20** **APPV** Approved

U-0

Notification: **50336850** Type: **DA** Work Type: **EVAL AANS**

Description: **LR Question on Sys 25 Elastomer Hoses**

Order:

Funct. Loc: **DC-0-04** **U0 SYS 04 TURBINE STEAM SUPPLY**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **23 Aug 10 16:25**

Planner Group:

Main Wrk Ctr: **EMS-005** Kubran Krystina - KHK3

PROBLEM DESCRIPTION

08/23/2010 16:25:46 Jana M. Orlando (JMSO) Phone 805/545-3126
08/19/2010 16:55:41 Philippe R. Soenen (PNS3) Phone 805/781-9782
During the an NRC insepction walkdown elastomer hoses were identified in the compressed air system for the portion of the system that is in scope for license renewal. The material type of elastomer had previously not been identified as within license renewal scope for system 25. The question was raised on how these elastomer hoses would be aging managed for the period of extended operation.

The license renewal project team has determined that these elastomer hoses are within the scope of license renewal and would have to be aging managed by an aging management program or periodically replaced. If periodically replaced the hoses would be screened out from requiring aging management per 10 CFR 54.

The project recommends the creation of a PM that would periodically replace these hoses and eliminate the requirement to apply an aging management program to these hoses.

The final determination on periodically replacing these hoses or commiting to applying an aging management program will need to be c ommunicated to the NRC as part of the License Renewal review process. A

Event Date **19 Aug 10** Notif Required By **19 Nov 10** Station Sig.: **3 Work Group Eval**

task will be initiated off this notification to track the sumittal to
the NRC.
08/23/2010 16:25:40 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the
Notification Review Team (NRT) and determined to be the indicated
significance level per OM7.ID1, Attachment 1, Category 18.1. If
additional information is discovered that would affect the significance
level determination, contact a member of the NRT or e-mail DCPP NRT
Members.
.
DN closed to DA.
.
09/15/2010 13:50:58 Michael D. Wright (MDW4) Phone 805/545-4067
.
Re-routed to System Engineer:
Action:
Work with PM group to create a PM for hose replacements on a 10 yr
frequency for air lines associated with the backup air bottles to the
10% ADV's.
.
If there is any question an the scope of the air lines, contact the
License renewal project.
.

10/19/2010 03:13:41 Krystyna H. Kubran (KHK3) Phone 805/545-3231
Orders for STP I-4-pcv19/20/21/22 have a step to inspect air supply
hoses and:
A. Replace air supply hoses and fittings IAW MP I-2.24-3 as needed.
B. Perform any dedication activities as required.
C. Perform pressure check and verify no leaks IAW MP I-2.24-4
.
This may be expanded to include all elastomer hoses associated with each
valve.
.
10/26/2010 00:11:40 Michael D. Wright (MDW4) Phone 805/545-4067

.

The request was for the elastomer hoses from the backup air bottles to the PCV's. The request was to create a PM to replace, not inspect, at a 10 year frequency. By "replacing" versus "inspecting" we do not have to develop an aging management program. Again, these are the hoses at the bottles.

.

Please review this with MSE Manager prior to closing.

.

10/26/2010 15:29:06 Krystyna H. Kubran (KHK3) Phone 805/545-3231
System engineer is requesting that SAPOs for STP I-4-pcv19/20/21/22 have Operation 0100 updated to reflect that ALL elastomer hoses are to be visually checked.

.

Current Operation description:
INSPECT AIR SUPPLY HOSES AND:
REPLACE AIR SUPPLY HOSES AND FITTINGS IAW MP I-2.24-3 AS NEEDED.
PERFORM ANY DEDICATION ACTIVITIES AS REQUIRED.
PERFORM PRESSURE CHECK AND VERIFY NO LEAKS IAW MP I-2.24-4

Request update to read:
INSPECT ALL ELASTOMER AIR SUPPLY (AND BACK UP SUPPLY) HOSES AND:
REPLACE AIR SUPPLY HOSES AND FITTINGS IAW MP I-2.24-3 AS NEEDED.
PERFORM ANY DEDICATION ACTIVITIES AS REQUIRED.
PERFORM PRESSURE CHECK AND VERIFY NO LEAKS IAW MP I-2.24-4

.

.

PCV-19 (Unit 1)
FLOC DC-1-04-P-VOA-MS-1-PCV-19
Ref Maintenance Plan # 7713
Next Order: 64038438 Due: 10/14/2012

PCV-19 (Unit 2)
FLOC DC-2-04-P-VOA-MS-2-PCV-19

Order coded under FLOC: DC-2-04-I-CI-HIC-516
Ref Maintenance Plan # 9680
Next Order: 64026248 Due: 11/01/2011

PCV-20 (Unit 1)
FLOC DC-1-04-P-VOA-MS-1-PCV-20
Ref Maintenance Plan # 7714
Next Order: 64026506 Due: 02/25/2011

PCV-20 (Unit 2)
FLOC DC-2-04-P-VOA-MS-2-PCV-20
Ref Maintenance Plan # 9681
Next Order: 64026172 Due: 11/01/2011

PCV-21 (Unit 1)
FLOC DC-1-04-P-V-MS-1-PCV-21 (note FLOC is coded V rather than VOA)
Ref Maintenance Plan # 7715
Next Order: 64021726 Due: 12/11/2011

PCV-21 (Unit 2)
FLOC DC-2-04-P-VOA-MS-2-PCV-21
Ref Maintenance Plan # 9682
Next Order: 64042243 Due: 02/12/2012

PCV-22 (Unit 1)
FLOC DC-1-04-P-VOA-MS-1-PCV-22
Order coded under FLOC: DC-1-04-I-CI-HIC-546
Ref Maintenance Plan # 7716
Next Order: 64018443 Due: 05/15/2011

PCV-22 (Unit 2)
FLOC DC-2-04-P-VOA-MS-2-PCV-22
Order coded under FLOC: DC-2-04-I-CI-HIC-546
Ref Maintenance Plan # 9683
Next Order: 64043606 Due: 01/08/2012

.

10/28/2010 13:39:41 Janis L. Bailey (JXDJ) Phone 545-3370

Notification due date extended to allow completion of corrective actions for creation of PMs.

11/03/2010 09:13:27 Krystyna H. Kubran (KHK3) Phone 805/545-3231

.

Engineering creation of PMs will be as follows:

Components: Elastomer hose which connects the portable back up air bottle to the hard metal fixed air line piping.

Frequency of Replacement: 10 years (as recommended by engineering mngmnt)

.

11/04/2010 16:01:34 John N. Mellinger (JNM1) Phone 805/545-4691

The following PM tasks have been initiated for replacement of the Back-up air bottle hoses:

.

29192 64064235 (New) REPLACE 1-PCV-22 BACKUP AIR HOSES 11/27/2013

29191 64064234 (New) REPLACE 1-PCV-21 BACKUP AIR HOSES 12/07/2013

29189 64064232 (New) REPLACE 1-PCV-19 BACKUP AIR HOSES 01/02/2014

29194 64064237 (New) REPLACE 2-PCV-20 BACKUP AIR HOSES 01/02/2014

29190 64064233 (New) REPLACE 1-PCV-20 BACKUP AIR HOSES 01/29/2014

29193 64064236 (New) REPLACE 2-PCV-19 BACKUP AIR HOSES 01/29/2014

29195 64064238 (New) REPLACE 2-PCV-21 BACKUP AIR HOSES 03/08/2014

29196 64064239 (New) REPLACE 2-PCV-22 BACKUP AIR HOSES 03/08/2014

.

These PMs have been aligned with the bottle gauge calibration pm tasks.

.

U-0

Notification: **50336850** Type: **DA** Work Type: **EVAL AANS**

Description: **LR Question on Sys 25 Elastomer Hoses**

Order:

11/10/2010 08:54:19 Krystyna H. Kubran (KHK3) Phone 805/545-3231
PMs are created and in place per work control process.
.
Creation and implementation of PMs were the goal of this SAPN. Actions
are now complete for closure. SAPN now closed.
.

STATUS DETAILS

System Status: **NOCO NOPT ATCO**

User Status: **20** **APPV** Approved

Task # 1 Track submittal of approach determined

Status: **TSCO**	Task Completed	
Code Group: **DG-EVAL**	DC General Evaluations	
Task Code: **EVAL**	Evaluate the following (See Long Text)	
Responsible: **User Responsible**	**PNS3** Philippe R. Soenen **805/544-6984**	
Work Ctr: **PL**	Project Manager - License Renewal	
Created On: **19 Aug 10**	By: **PNS3** Philippe R. Soenen	
Planned Start: **20 Aug 10**	Planned Finish: **15 Dec 10**	
Completed On: **10 Nov 10 09:51**	By: **PNS3** Philippe R. Soenen **805/544-6984**	

11/02/2010 09:24:10 Sidney S. Bowen (SSB3) Phone 805/545-6117 0
Changed tash due date to corrolate with notification resolution.
11/10/2010 08:54:56 Krystyna H. Kubran (KHK3) Phone 805/545-3231
PMs have been created for elastomer hose replacement from back up air bottles to hard piping (permanent plant equipment).
.
SAPN may now be closed.
.

U-0

Notification: **50336850** Type: **DA** Work Type: **EVAL AANS**

Description: **LR Question on Sys 25 Elastomer Hoses**

Order:

Task # 2 MSE manager review

Status: **TSCO**	Task Completed
Code Group: **DG-EVAL**	DC General Evaluations
Task Code: **EVAL**	Evaluate the following (See Long Text)
Responsible: **User Responsible**	
Work Ctr: **EMS-000**	Supervisor - Bailey Janis - JXDJ
Created On: **26 Oct 10**	By: **MDW4** Michael D. Wright
Planned Start: **26 Oct 10**	Planned Finish: **31 Dec 10**
Completed On: **04 Nov 10 23:00**	By: **MDW** Michael D. Wright **805/545-4067**

10/26/2010 00:15:53 Michael D. Wright (MDW4) Phone 805/545-4067
Review with MSE manager prior to completing.

.

11/04/2010 23:00:29 Michael D. Wright (MDW4) Phone 805/545-4067
done

DC

Notification: **50341482** Type: **DN** Work Type: **DOCUM AANS**

Description: **License Renewal Application has an error**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **SSB3** Sidney S. Bowen Rpt By Work Ctr: **PL**

Contact Info: Created On: **14 Sep 10 17:56**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/14/2010 17:54:16 Sidney S. Bowen (SSB3) Phone 805/545-6117 0
The License renewal application has an error in appendix B.

Appendix B B2.1.38:

"In the 500 kV switchyard these are the components between the main transformers and switchyard breakers 532/632 in Unit 1 and 543/641" (543/641 should be 642/542)in Unit 2.

543 and 641 are disconnect numbers, not switchyard breaker numbers. 642 and 542 are the breaker numbers.

The enhancement section of the Switchyard AMP has the same paragraph.

This is not a plant equipment issue.
09/15/2010 14:10:34 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 7.4. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

Event Date **14 Sep 10** Notif Required By **29 Jan 11** Station Sig.: **3 Work Group Eval**

DC

Notification: **50341482** Type: **DN** Work Type: **DOCUM** **AANS**

Description: **License Renewal Application has an error**

Order:

.

DN closed to DA.

.

STATUS DETAILS

System Status: **NOCO NOPT ATCO**

User Status: **20** **APPV** Approved

Task # 1 000050341709

Status: **TSCO**	Task Completed		
Code Group: **DG-CR**	Condition Report		
Task Code: **OR**	Organizational		
Responsible: **User Responsible**			
Work Ctr:			
Created On: **15 Sep 10**	By: **JMSO** Jana M. Orlando		
Planned Start: **15 Sep 10**	Planned Finish: **15 Sep 10**		
Completed On: **15 Sep 10 14:10**	By: **JMSO** Jana M. Orlando	**805/545-3126**	

U-0

Notification: **50341635** Type: **DN** Work Type: **EVAL ENGR**

Description: **Evaluate the need for strain gauge PM**

Order:

Funct. Loc: **DC-0-80-F** **U0 SYS 80 FACIL**

Reported By: **KMMH** Kristin M. Zaitz Rpt By Work Ctr: **EDC-008**

Contact Info: Created On: **15 Sep 10 12:20**

Planner Group:

Main Wrk Ctr: **EDC-008** Zaitz Kristin - KMMH

PROBLEM DESCRIPTION

09/15/2010 12:16:45 Kristin M. Zaitz (KMMH) Phone 805/545-6058
The purpose of this notification is to evaluate the need for preventative and/or corrective maintenance to maintain a water tight seal around the containment strain gauges. This notification does not report an equipment problem. Existing drawings and descriptions of these strain gauges are not adequate for engineering to determine if a water leak path exists that could over time expose the containment rebar to corrosive conditions and pose an aging management concern. These g auges are out-of-service (abandoned in place), and do not impact the design function of the containment structure. The results of this evaluation will be used to enhance containment inspections and the associated aging management program, if deemed necessary.

Background:

Strain gauges were installed at various locations on the containment structure to assess the performance of the structure during the Structural Integrity Test. For Unit 1, this test was conducted between August 1 and 11, 1975. For Unit 2, this test was conducted between October 26 and November 5, 1977. These strain gauges were required only for these tests #they are no longer in service.

Event Date **15 Sep 10** Notif Required By **01 May 11** Station Sig.: **5 Other**

The strain gauges are mounted on the containment structure no. 18 reinforcing bars. The cable used for the strain gauges wiring to the strain indication equipment is routed through a flexible conduit that is embedded in the concrete, extending from the gauge area to junction boxes attached to the outside surface of containment. A cover plate with silicone caulking is installed at the surface of containment, but the details of this configuration are vague. Refer to the following drawings for more information:
103512
663075-654
663075-657

Containment structure inspections performed in accordance with ASME Section XI Subsection IWL have noted locations where the strain gauge cover plates have partially disengaged or fallen out of place. The IWL concrete inspections have investigated the condition of the concrete around these cover plates and found there to be no degradation or indications of corrosion of the underlying reinforcing bars. Although there is currently no evidence of corrosion on the surface, the configuration of the strain gauges may be such that there is a water leak path that could extend from the surface of containment to the rebar in the long term. If this path exists, then inspections and PM should focus on ensuring a watertight seal at these locations to preclude degradation of the rebar at these locations.
09/15/2010 13:50:37 David G. Wong (DGW1) Phone 805/545-6546
As the civil engineering supervisor, I have reviewed the above writeup and provide my approval. This notification does not report a non-conforming or degraded condition, rather it is a tracking tool that engineering will use to determine whether or not a maintenance plan is needed to provide enhanced monitoring of the strain guages and their cover plates for any degraded conditions of the guages. If a degraded condition is found, a separate notification will be written to place it into the corrective action program.
.
Notification assigned to the responsible engineer to determine the best

way to monitor the strain guages/cover plates (does the present IWL inspections suffice or does a new maintenance plan need to track it?)

.

09/15/2010 15:40:22 Behrooz Shakibnia (BXS5) Phone 805/545-6094
For concrete surface conduit box details, see drawing 663075-655.

.

09/16/2010 14:59:59 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

.

09/16/2010 18:38:41 David G. Wong (DGW1) Phone 805/545-6546
The containment structure system engineer should also consider instituting a more permanent fix, such as sealing up of the entire strain guage wire box.

.

10/28/2010 23:22:04 David G. Wong (DGW1) Phone 805/545-6546
Civil Engineering will be creating a maintenance plan that will ensure enhanced monitoring of the strain gauges and their cover plates for degraded conditions. Civil Engineering will also be issuing a design change or N-Mod to provide permanent fix options (including sealing up of the entire strain guage wire box) that can be implemented depending upon the as-found condition (extent of damage) of the strain guage wire boxes.

.

U-0

Notification: **50341635** Type: **DN** Work Type: **EVAL ENGR**

Description: **Evaluate the need for strain gauge PM**

Order:

STATUS DETAILS

System Status: **OSNO OSTS**

User Status: **25** **ASGN** Assigned to Target Workcenter

Task # 1 Issue design implementation vehicle

Status: **TSRL**	Task Released		
Code Group: **DE-ENG-T**	Diablo Engineering Tasks		
Task Code: **0170**	Design change evaluation		
Responsible: **User Responsible**	**KADB**	Kyle Duke	**805/550-6311**
Work Ctr: **EDC-012**	Engineer		
Created On: **14 Jan 11**	By: **DGW1** David G. Wong		
Planned Start: **14 Jan 11**	Planned Finish: **01 May 11**		
Completed On:	By:		

DC

Notification: **50341709** Type: **DA** Work Type: **DOCUM AANS**

Description: **License Renewal Application has an error**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **SSB3** Sidney S. Bowen Rpt By Work Ctr: **PL**

Contact Info: Created On: **15 Sep 10 14:10**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/15/2010 14:10:39 Jana M. Orlando (JMSO) Phone 805/545-3126
09/14/2010 17:54:16 Sidney S. Bowen (SSB3) Phone 805/545-6117 0
The License renewal application has an error in appendix B.

Appendix B B2.1.38:

"In the 500 kV switchyard these are the components between the main transformers and switchyard breakers 532/632 in Unit 1 and 543/641" (543/641 should be 642/542)in Unit 2.

543 and 641 are disconnect numbers, not switchyard breaker numbers. 642 and 542 are the breaker numbers.

The enhancement section of the Switchyard AMP has the same paragraph.

This is not a plant equipment issue.
09/15/2010 14:10:34 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 7.4. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT

Event Date **14 Sep 10** Notif Required By **29 Jan 11** Station Sig.: **3 Work Group Eval**

Members.

.

DN closed to DA.

.

12/29/2010 10:17:49 Terence L. Grebel (TLG1) Phone 805/545-4160

Complete see DCL-10-158 dated December 29, 2010.

STATUS DETAILS

System Status: **NOCO**

User Status: **20** **APPV** Approved

U-0

Notification: **50341717** Type: **DN** Work Type: **EVAL AANS**

Description: **Reevaluate Closed Cycle Cooling AMP**

Order:

Funct. Loc: **DC-0-14** **U0 SYS 14 COMPONENT COOLING WATER**

Reported By: **TAJ7** Timothy A. Juarez Rpt By Work Ctr: **EMB-005**

Contact Info: Created On: **15 Sep 10 15:58**

Planner Group:

Main Wrk Ctr: **EMB-006** Sabharwal Sab - SNS1

PROBLEM DESCRIPTION

09/15/2010 15:54:49 Timothy A. Juarez (TAJ7)
Currently the AMP for closed cycle cooling water identifies that CCW-1-585 and CCW-2-585 will be inspected on a routine basis to det ermine the effectiveness the chemicals have on the system. During the License renewal audit, it was identified this section of pipe is not a low-flow section of pipe (flow velocity less than 3 ft/sec). The question was asked as to whether or not it this was a representative section of pipe that could be relied upon to as early detection of CCW chemical effectiveness.

This notification requests to reevaluate if the inspection criteria called out for CCW-1/2-585 provide value as a monitored parameter for the effectiveness of chemistry management for the CCW system. If this activity is determine to be insufficient, or provides no value, indicate supplemental or an alternate inspection activities that would satisfactorily monitor chemical effectives for the system.
09/16/2010 11:27:38 Timothy A. Juarez (TAJ7)

This action should be completed prior to implemenation of closed cycle cooling water AMP.

As delegated supervisor, I approve this notification.

Event Date **15 Sep 10** Notif Required By **31 Mar 11** Station Sig.: **5 Other**

09/20/2010 13:34:16 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

.

01/12/2011 16:48:53 Surendra N. Sabharwal (SNS1)
Please note the above referenced pipe section that contains valve CCW-1/2-585 is not a representative section for corrosion monitoring as the design flow thru this pipe is 880 gpm and it is a 10"-K spec pipe, that gives a velocity thru this pipe of grater than 3 fps; not a low flow section.
To evaluate the effectiveness of the corrosion inhibitor, the system design provides a corrosion test loop at the outlet of Letdown HX, where most of the time the flows are low (controlled by TCV-130). The test loop consists of four coupon locations and two spare connections for future use. Test coupons of representative materials are exposed to CCW conditions for a specified amount of time and then analyzed to determine the overall corrosion rates.

STATUS DETAILS

System Status: **OSNO ATCO**

User Status: **20** **APPV** Approved

U-0

Notification: **50341717** Type: **DN** Work Type: **EVAL** **AANS**

Description: **Reevaluate Closed Cycle Cooling AMP**

Order:

Task # 1 Provide info on measures in place to mon

Status: **TSCO**	Task Completed	
Code Group: **DG-EVAL**	DC General Evaluations	
Task Code: **EVAL**	Evaluate the following (See Long Text)	
Responsible: **User Responsible**	**ESW1**	Eric S. Wessel
Work Ctr: **OCE**	Chemistry Engineers	
Created On: **11 Jan 11**	By: **SNS1** Surendra N.	
Planned Start: **12 Jan 11**	Planned Finish: **04 Feb 11**	
Completed On: **20 Jan 11 13:56**	By: **ESW1** Eric S. Wessel	

01/11/2011 17:13:18 Surendra N. Sabharwal (SNS1)
In order to further evaluate the request noted in this notification, please provide the following:
Info on provisions in place to monitor the effectiveness of the chemicals addition to the CCW system; along with parameters monitored. Also what actions will provide an early detection of ineffectiveness of CCW chemistry management (if it occurs).

01/20/2011 13:24:31 Eric S. Wessel (ESW1)
Corrosion monitoring is accomplished by evaluationg corrosion test coupons installed as described in the body of this SAPN. Reference AR#411232, A0411234, & A0411236.
*
Spool pieces with a flow restricting orifice are installed in CCW-1 & CCW-2, FLOC 1(2)-14-P-P-LINE-7020. These are visually examined for biofouling on a two year frequancy. Reference 64006180 & 64012392.
*
Additionally CCW relief valves that are inspected by engineering for "as-found" condition will note any debris and/or fouling and be documented in the inspection results. A part of the response to INPO AFI 3.1 inspection steps for debris and/or fouling were added to the following Relief Valve swaps:

CCW-1/2-RV-41 RT 51928/551928
CCW-1/2-RV-42 RT 51929/551929
CCW-1/2-RV-43 RT 51930/551930
CCW-1/2-RV-44 RT 51931/551931
CCW-1/2-RV-52 RT 51949/551949
CCW-1/2-RV-46 RT 51950/551950

U-0

Notification: **50341749** Type: **DN** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

Funct. Loc: **DC-0-70** **U0 SYS 70 500 KV**

Reported By: **M4MN** Manuel L. Munoz Rpt By Work Ctr: **EIE-007**

Contact Info: Created On: **15 Sep 10 18:12**

Planner Group: **NPR** No planning requrd

Main Wrk Ctr: **EIE** Electrical Systems / Components

PROBLEM DESCRIPTION

09/15/2010 18:12:20 Manuel L. Munoz (M4MN) Phone 805/545-6164
During NRC License Renewal Aging Management inspection of the 500kV and 230kV switchyards on 9-14-10, the following indications were identified on insulators and supports that will need an expert evaluation.
1. 230kV switchyard- hair line cracking was identified in the foundation (West leg) of the CB 212 lattice structure.
2. 500kV switchyard- Transmission line Towers showed cracking on the grout of the foundations where the structure meets the concrete. Also, rust was present on metal plates used as spacers between the structure and foundation.
3. Switch 631 B phase structure found cracking in the grout where the structure meets the foundation.
4. Switch 541 A phase lower part of the structure is bent, foundation grout is cracked.
Also a bolt in the NW of the top of this structure is rusted.

Civil Engineering will need to evaluate these findings.

5. 500kV switchyard- Transmission line towers, vertical and horizontal insulator bells show discoloration on the bells nearest to the energized Transmission Line. Rust was identified on A, B, & C phase connectors of

Event Date **15 Sep 10** Notif Required By **17 Oct 10** Station Sig.: **3 Work Group Eval**

the towers.

Transmission & Substation Asset Strategy will need to inspect and evaluate these findings.

Indications described above are being evaluated for aging of system. These findings are not an immediate concern and will not impact the function of these systems.
09/16/2010 10:26:21 Joseph Goryance (JXG3) Phone 805/545-3454
.
Item # 6 included general housekeeping in the switchyard near the vicinity of the 500kv breakers and disconnect switches. the house keeping items noticed during the walkdown were fastener hardware (nuts, washers, bolts) found on the ground. Request plant maintenance coordinate with Substation department to perform a thorough walkdown of the switchyard and perform a general clean up of the area.
09/16/2010 15:25:41 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.
DN closed to DA.
.

STATUS DETAILS

System Status: **NOCO NOPT ATCO**

User Status: **20** **APPV** Approved

U-0

Notification: **50341749** Type: **DN** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

Task # 1

Status: **TSCO**	Task Completed
Code Group: **DO-EFFCT**	DC Plant Effect Assessment
Task Code: **SFMR**	SFM Review
Responsible: **User Responsible**	
Work Ctr: **OPR**	Operations Crew - On Shift
Created On: **15 Sep 10**	By: **M4MN** Manuel L. Munoz
Planned Start: **16 Sep 10**	Planned Finish: **16 Sep 10**
Completed On: **16 Sep 10 03:26**	By: **DRS5** Daniel R. Stermer

Task # 2

Status: **TSCO**	Task Completed
Code Group: **DO-OPER**	Operability Evaluation
Task Code: **OPER**	SSC is Operable
Responsible: **User Responsible**	
Work Ctr: **OPR**	
Created On: **16 Sep 10**	By: **DRS5** Daniel R. Stermer
Planned Start: **16 Sep 10**	Planned Finish: **16 Sep 10**
Completed On: **16 Sep 10 03:40**	By: **DRS5** Daniel R. Stermer

09/16/2010 03:26:16 Daniel R. Stermer (DRS5)
1. Describe the degraded or non conforming condition. If there is no such condition, for instance if the notification is tracking a future design change, write "No degraded or non conforming condition exists" in the task and do not answer the following questions.

The degraded conditions are as follows:

1. 230kV switchyard- hair line cracking in the foundation(West leg) of the CB 212 lattice structure.
2. 500kV switchyard- Transmission line Towers showed cracking on the grout of the foundations where the structure meets the concrete. Also, rust was present on metal plates used as spacers between the structure and foundation.
3. Switch 631 B phase structure found cracking in the grout where the structure meets the foundation.

4. Switch 541 A phase lower part of the structure is bent, foundation grout is cracked.
5. A bolt in the NW of the top of this structure is rusted.
6. 500kV switchyard- Transmission line towers, vertical and horizontal insulator bells show discoloration on the bells nearest to the energized Transmission Line. Rust was identified on A, B, and C phase.

2. Specify the SSC affected by the degraded or non conforming condition. If the component is not TS or ECG required and does not provide any support functions for TS or ECG required equipment write "The SSC has no safety function" in the task and do not answer the following questions.

The SSCs are the 230 and 500 kv systems.

3. Describe the effect or potential effect of the degraded or non conforming condition on the affected SSC's ability to perform its safety function.

The potential effect is if the conditions were to worsen over a long period of time, the physical strength of the components could weaken to the point of failing. This would result in a loss of power to the site as well as potentially causing a plant transient if a 500kv line were lost.

4. Summarize why there is reasonable expectation of OPERABILITY.

The items noted are being evaluated for aging. The individual performing the inspection indicates that the SSCs are expected to be able to perform their safety function. None of the items indicate that there is an immediate concern that would result in the SSC to not be able to perform its function. The SSCs remain operable.

Task # 3 See DA for Task

Status: **TSCO**	Task Completed
Code Group: **DE-MRULE**	DC Maintenance Rule
Task Code: **RFFN**	Maint Rule Funct. Failure: NO
Responsible: **User Responsible**	
Work Ctr: **EIE**	Electrical Systems / Components
Created On: **16 Sep 10**	By: **DRS5** Daniel R. Stermer
Planned Start: **16 Sep 10**	Planned Finish: **16 Oct 10**
Completed On: **16 Sep 10 15:27**	By: **JMSO** Jana M. Orlando **805/545-3126**

09/16/2010 03:41:16 Daniel R. Stermer (DRS5)
DO NOT PERFORM A CLOSURE OF THIS TASK IF YOU DO NOT

POSSESS AN ENGNTS9 QUALIFICATION" UNLESS THIS TASK IS A DUPLICATE, NOT AN EQUIPMENT PROBLEM
(EQPR) TYPE NOTIFICATION OR THIS NOTIFICATION WAS CREATED IN ERROR.

09/16/2010 15:26:15 Jana M. Orlando (JMSO) Phone 805/545-3126
Per R. Allen, this task is a duplicate task - See DA.
.

Task # 4 Evaluate Long Term Impact

Status: **TSCO**	Task Completed	
Code Group: **DE-ENG-T**	Diablo Engineering Tasks	
Task Code: **0065**	Engineering Evaluation	
Responsible: **User Responsible**		
Work Ctr: **EDC**	Design Eng - Civil Seismic Piping	
Created On: **16 Sep 10**	By: **RAW2** Robert A. Waltos	
Planned Start: **16 Sep 10**	Planned Finish: **23 Sep 10**	
Completed On: **16 Sep 10 15:27**	By: **JMSO** Jana M. Orlando	**805/545-3126**

09/16/2010 14:24:10 Robert A. Waltos (RAW2) Phone 805/545-4400
.
The evaluation in Task No. 2 provides an immediate determination of operability by operations. This is to request an evaluation of the identified conditions for long term reliability and is specific to the conditions described in items 1 through 4 in the Notification.

When the evaluation is complete, it has been requested by the Operations Manger that a DO-OPER Task be initiated and the Work Control Shift Foreman notified.
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U-0

Notification: **50341749** Type: **DN** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

Task # 5 Evaluate Long Term Impact

Status: **TSCO**	Task Completed	
Code Group: **DE-ENG-T**	Diablo Engineering Tasks	
Task Code: **0065**	Engineering Evaluation	
Responsible: **User Responsible**		
Work Ctr: **EIE**	Electrical Systems / Components	
Created On: **16 Sep 10**	By: **RAW2** Robert A. Waltos	
Planned Start: **16 Sep 10**	Planned Finish: **23 Sep 10**	
Completed On: **16 Sep 10 15:27**	By: **JMSO** Jana M. Orlando	**805/545-3126**

09/16/2010 14:26:05 Robert A. Waltos (RAW2) Phone 805/545-4400

.

The evaluation in Task No. 2 provides an immediate determination of operability by operations of the conditions identified in the notification. This is to request an evaluation of the identified conditions for long term reliability and is specific to the conditions described in items 5 of the Notification.

When the evaluation is complete, it has been requested by the Operations Manger that a DO-OPER Task be initiated and the Work Control Shift Foreman notified.

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Task # 6 000050341964

Status: **TSCO**	Task Completed	
Code Group: **DG-CR**	Condition Report	
Task Code: **OR**	Organizational	
Responsible: **User Responsible**		
Work Ctr: **EIE**		
Created On: **16 Sep 10**	By: **JMSO** Jana M. Orlando	
Planned Start: **16 Sep 10**	Planned Finish: **16 Sep 10**	
Completed On: **16 Sep 10 15:25**	By: **JMSO** Jana M. Orlando	**805/545-3126**

DC

Notification: **50341752** Type: **DN** Work Type: **EVAL AANS**

Description: **Evaluate Selective Leaching AMP**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **DNGD** Daniel J. Gibbons Rpt By Work Ctr: **PL**

Contact Info: Created On: **15 Sep 10 16:48**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/15/2010 16:48:08 Daniel J. Gibbons (DNGD)
Based on discussion with the NRC during the License Renewal Regional Inspection, the License Renewal Aging Management Program for Selective Leaching, XI.M33, will need to be evaluated in order to determine if the program should include a one time inspection or a periodic inspection plan, based on plant operating experience.
09/16/2010 14:03:14 Philippe R. Soenen (PNS3) Phone 805/781-9782

Furhter discussion with the NRC inspector identified the need to specifically address the potential need for a more substantial sampling (larger sample size or destructive testing) for the material and environment combination of saltwater and aluminum bronze.
09/16/2010 15:27:53 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.
DN closed to DA.
.

Event Date **15 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

DC

Notification: **50341752** Type: **DN** Work Type: **EVAL AANS**

Description: **Evaluate Selective Leaching AMP**

Order:

STATUS DETAILS

System Status: **NOCO ATCO**

User Status: **20** **APPV** Approved

Task # 1 000050341966

Status: **TSCO**	Task Completed	
Code Group: **DG-CR**	Condition Report	
Task Code: **OR**	Organizational	
Responsible: **User Responsible**		
Work Ctr:		
Created On: **16 Sep 10**	By: **JMSO** Jana M. Orlando	
Planned Start: **16 Sep 10**	Planned Finish: **16 Sep 10**	
Completed On: **16 Sep 10 15:27**	By: **JMSO** Jana M. Orlando	**805/545-3126**

DC

Notification: **50341848** Type: **DN** Work Type: **EVAL AANS**

Description: **Documentation for LR Scoping of TB Comps**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **DNGD** Daniel J. Gibbons Rpt By Work Ctr: **PL**

Contact Info: Created On: **16 Sep 10 14:57**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/16/2010 14:57:27 Daniel J. Gibbons (DNGD)
During the NRC License Renewal Regional Inspection, it was requested that we provide documentation to show the evaluation of which components in the Turbine Building are in scope for license renewal. The specific components in question are the SCW Head Tank and the firewater piping in the vicinity of the Control Room Pressurization System.
09/20/2010 14:32:33 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.
DN closed to DA.
.

STATUS DETAILS

System Status: **NOCO ATCO**

User Status: **20** **APPV** Approved

Event Date **16 Sep 10** Notif Required By **15 Oct 10** Station Sig.: **3 Work Group Eval**

DC

Notification: **50341848** Type: **DN** Work Type: **EVAL AANS**

Description: **Documentation for LR Scoping of TB Comps**

Order:

Task # 1 000050342570

Status: **TSCO**	Task Completed	
Code Group: **DG-CR**	Condition Report	
Task Code: **OR**	Organizational	
Responsible: **User Responsible**		
Work Ctr:		
Created On: **20 Sep 10**	By: **JMSO** Jana M. Orlando	
Planned Start: **20 Sep 10**	Planned Finish: **20 Sep 10**	
Completed On: **20 Sep 10 14:32**	By: **JMSO** Jana M. Orlando	**805/545-3126**

DC

Notification: **50341874** Type: **DN** Work Type: **EVAL AANS**

Description: **Evaluate LR One Time Inspection Program**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **16 Sep 10 13:50**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/16/2010 13:50:16 Philippe R. Soenen (PNS3) Phone 805/781-9782
During the license renewal regional inspection an NRC inspector requested that the license renewal one-time inspection aging management program be evaluated to consider revisions of te following items:

1) The basis for the currently proposed sample size. The NRC inspector relayed that the current sample size seemed appropriate for a single unit plant.

2) Consider including some samples of other material types for a given environment in addition to the material type that will be identified as the most susceptible material to the applicable aging effect for the environment.

3) Consider expanding the inpsection scope to other less susceptible material types if corrosion is identified during the inspection in addition to the material type that will be identified as the most susceptible material to the applicable aging effect for the environment.

There are no operability or equipment issues identified as part of this notification.
09/20/2010 14:33:32 Jana M. Orlando (JMSO) Phone 805/545-3126

Event Date **16 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

DC

Notification: **50341874** Type: **DN** Work Type: **EVAL AANS**

Description: **Evaluate LR One Time Inspection Program**

Order:

The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

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DN closed to DA.

.

STATUS DETAILS

System Status: **NOCO ATCO**

User Status: **20** **APPV** Approved

Task # 1 000050342573

Status: **TSCO**	Task Completed		
Code Group: **DG-CR**	Condition Report		
Task Code: **OR**	Organizational		
Responsible: **User Responsible**			
Work Ctr:			
Created On: **20 Sep 10**	By: **JMSO** Jana M. Orlando		
Planned Start: **20 Sep 10**	Planned Finish: **20 Sep 10**		
Completed On: **20 Sep 10 14:33**	By: **JMSO** Jana M. Orlando	**805/545-3126**	

DC

Notification: **50341877** Type: **DN** Work Type: **EVAL AANS**

Description: **Evaluate LR App. J and IWE AMPs**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **16 Sep 10 14:27**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/16/2010 14:27:44 Philippe R. Soenen (PNS3) Phone 805/781-9782
During the license renewal regional inspection it was identified that the ten element evaluations for license renewal App. J and IWE aging management programs need to be evlauted to potentially clarify the cross referencing between these two aging management programs for the testing of penetration seals.
09/20/2010 14:33:54 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.
DN closed to DA.
.

STATUS DETAILS

System Status: **NOCO ATCO**

User Status: **20** **APPV** Approved

Event Date **16 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

DC

Notification: **50341877** Type: **DN** Work Type: **EVAL AANS**

Description: **Evaluate LR App. J and IWE AMPs**

Order:

Task # 1 000050342574

Status: **TSCO**	Task Completed	
Code Group: **DG-CR**	Condition Report	
Task Code: **OR**	Organizational	
Responsible: **User Responsible**		
Work Ctr:		
Created On: **20 Sep 10**	By: **JMSO** Jana M. Orlando	
Planned Start: **20 Sep 10**	Planned Finish: **20 Sep 10**	
Completed On: **20 Sep 10 14:33**	By: **JMSO** Jana M. Orlando	**805/545-3126**

U-2

Notification: **50341879** Type: **DN** Work Type: **EVAL AANS**

Description: **Component material ref in SAP**

Order:

Funct. Loc: **DC-2-25-P-REG-AIR-I-2-1231A** **REG VLV TO FCV-633**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **16 Sep 10 14:55**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/16/2010 14:46:12 Philippe R. Soenen (PNS3) Phone 805/781-9782
During a license renewal regional inspection walkdown the material type for the Unit 2 AIR-I-I-1231A regulator was questions when compared to what SAP identifies the material to be. SAP identifies this component to be made of aluminum whereas the walkdown identified this component to be some type of copper alloy.

The component material needs to be verified int he field and SAP should be revised as necessary to reflect the actual material type. The license renewal application and the basis documents need to be revised as appropriate to reflect the correct material type.

There is no operability or functinal concern with this component it is only a documentation clarification.
09/20/2010 14:34:13 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.

Event Date **16 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

U-2

Notification: **50341879** Type: **DN** Work Type: **EVAL** **AANS**

Description: **Component material ref in SAP**

Order:

DN closed to DA.

.

STATUS DETAILS

System Status: **NOCO ATCO**

User Status: **20** **APPV** Approved

Task # 1 000050342575

Status: **TSCO**	Task Completed	
Code Group: **DG-CR**	Condition Report	
Task Code: **OR**	Organizational	
Responsible: **User Responsible**		
Work Ctr:		
Created On: **20 Sep 10**	By: **JMSO** Jana M. Orlando	
Planned Start: **20 Sep 10**	Planned Finish: **20 Sep 10**	
Completed On: **20 Sep 10 14:34**	By: **JMSO** Jana M. Orlando	**805/545-3126**

DC

Notification: **50341911** Type: **DN** Work Type: **EVAL AANS**

Description: **Material type in LRA for diesel pump**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **16 Sep 10 15:08**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/16/2010 15:08:20 Philippe R. Soenen (PNS3) Phone 805/781-9782
During the license renewal regional inspection it was identified that the material referenced for the diesel generator make up priming pump in the license renewal documents is PVC. Going through the vendor materials it was identified that the pumps are made of a trademark thermo-plastic. It needs to be evaluated if the material should be called out as something other than PVC in the application and basis documents. The aging effects and aging management needs to be evaluated for this material to confirm they are correct.

There is no equipment or functional issue associated with these components, only a documentation clarification needed.
09/27/2010 14:08:10 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 7.4. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.
DN closed to DA.
.

Event Date **16 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

DC

Notification: **50341911** Type: **DN** Work Type: **EVAL AANS**

Description: **Material type in LRA for diesel pump**

Order:

STATUS DETAILS

System Status: **NOCO NOPT ATCO**

User Status: **20** **APPV** Approved

Task # 1

Status: **TSCO**	Task Completed	
Code Group: **DO-OPER**	Operability Evaluation	
Task Code: **OPER**	SSC is Operable	
Responsible: **User Responsible**		
Work Ctr:		
Created On: **23 Sep 10**	By: **JRC1** Jerry R. Collins	
Planned Start: **23 Sep 10**	Planned Finish: **23 Sep 10**	
Completed On: **23 Sep 10 17:31**	By: **JBDO** James B. Dillis	**805/545-3243**

09/23/2010 17:30:03 James B. Dillis (JBDO) Phone 805/545-3243
1. Describe the degraded or non-conforming condition. If there is no such condition, for instance if the notification is tracking a future design change, write "No degraded or non-conforming condition exists" in the task and do not answer the following questions.

The degraded condition is a discrepancy between the paperwork identifying the material used in the diesel generator's priming pumps, PVC versus the vendor thermo-plastic.

2. Specify the SSC affected by the degraded or non-conforming condition. If the component is not TS or ECG required and does not provide any support functions for TS or ECG required equipment write "The SSC has no safety function" in the task and do not answer the following questions.

The SSC is the fuel priming pump on the Diesel Generator, (DG), which has no safety function.

DC

Notification: **50341911** Type: **DN** Work Type: **EVAL AANS**

Description: **Material type in LRA for diesel pump**

Order:

Task # 2 000050344181

Status: **TSCO**	Task Completed	
Code Group: **DG-CR**	Condition Report	
Task Code: **OR**	Organizational	
Responsible: **User Responsible**		
Work Ctr:		
Created On: **27 Sep 10**	By: **JMSO** Jana M. Orlando	
Planned Start: **27 Sep 10**	Planned Finish: **27 Sep 10**	
Completed On: **27 Sep 10 14:08**	By: **JMSO** Jana M. Orlando	**805/545-3126**

U-0

Notification: **50341964** Type: **DA** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

Funct. Loc: **DC-0-70** **U0 SYS 70 500 KV**

Reported By: **M4MN** Manuel L. Munoz Rpt By Work Ctr: **EIE-007**

Contact Info: Created On: **16 Sep 10 15:25**

Planner Group: **NPR** No planning requrd

Main Wrk Ctr: **EIE-007** Munoz Manuel - M4MN

PROBLEM DESCRIPTION

09/16/2010 15:25:47 Jana M. Orlando (JMSO) Phone 805/545-3126
09/15/2010 18:12:20 Manuel L. Munoz (M4MN) Phone 805/545-6164
During NRC License Renewal Aging Management inspection of the 500kV and 230kV switchyards on 9-14-10, the following indications were identified on insulators and supports that will need an expert evaluation.
1. 230kV switchyard- hair line cracking was identified in the foundation (West leg) of the CB 212 lattice structure.
2. 500kV switchyard- Transmission line Towers showed cracking on the grout of the foundations where the structure meets the concrete. Also, rust was present on metal plates used as spacers between the structure and foundation.
3. Switch 631 B phase structure found cracking in the grout where the structure meets the foundation.
4. Switch 541 A phase lower part of the structure is bent, foundation grout is cracked.
Also a bolt in the NW of the top of this structure is rusted.

Civil Engineering will need to evaluate these findings.

5. 500kV switchyard- Transmission line towers, vertical and horizontal insulator bells show discoloration on the bells nearest to the energized

Event Date **15 Sep 10** Notif Required By **18 Feb 11** Station Sig.: **3 Work Group Eval**

Transmission Line. Rust was identified on A, B, & C phase connectors of the towers.

Transmission & Substation Asset Strategy will need to inspect and evaluate these findings.

Indications described above are being evaluated for aging of system. These findings are not an immediate concern and will not impact the function of these systems.
09/16/2010 10:26:21 Joseph Goryance (JXG3) Phone 805/545-3454
.
Item # 6 included general housekeeping in the switchyard near the vicinity of the 500kv breakers and disconnect switches. the house keeping items noticed during the walkdown were fastener hardware (nuts, washers, bolts) found on the ground. Request plant maintenance coordinate with Substation department to perform a thorough walkdown of the switchyard and perform a general clean up of the area.
09/16/2010 15:25:41 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.
DN closed to DA.
.
10/26/2010 13:25:31 Kimberley L. Corona (KLCP) Phone 805/545-5424
Trending Complete.
01/20/2011 16:49:40 Joseph Goryance (JXG3) Phone 805/545-3454
due date changed to allow task 4 coordination with PM program coordinator.

U-0

Notification: **50341964** Type: **DA** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

STATUS DETAILS

System Status: **OSNO NOPT OSTS**

User Status: **20** **APPV** Approved

Task # 1 mrff=no

Status: **TSCO**	Task Completed		
Code Group: **DE-MRULE**	DC Maintenance Rule		
Task Code: **RFFN**	Maint Rule Funct. Failure: NO		
Responsible: **User Responsible**	**M4MN**	Manuel L. Munoz	**805/545-6164**
Work Ctr: **EIE-007**	Munoz Manuel - M4MN		
Created On: **16 Sep 10**	By: **JMSO** Jana M. Orlando		
Planned Start: **16 Sep 10**	Planned Finish: **16 Oct 10**		
Completed On: **07 Oct 10 13:16**	By: **JXG3** Joseph Goryance		**805/545-3454**

09/16/2010 15:25:47 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 03:41:16 Daniel R. Stermer (DRS5)
DO NOT PERFORM A CLOSURE OF THIS TASK IF YOU DO NOT POSSESS AN ENGNTS9 QUALIFICATION" UNLESS THIS TASK IS A DUPLICATE, NOT AN EQUIPMENT PROBLEM (EQPR) TYPE NOTIFICATION OR THIS NOTIFICATION WAS CREATED IN ERROR.

09/23/2010 16:06:50 Manuel L. Munoz (M4MN) Phone 805/545-6164
This is an MRFF=No, All insulator corrosion findings in the 500kV switchyard do not pose a threat to the function of this system. TLine expert has verified the strenght and integrity of the insulators to be sufficient and has no long term reliability issues
10/07/2010 13:14:49 Joseph Goryance (JXG3) Phone 805/545-3454
.
concur with assessment no system 69 or system 70 maintenance rule functions were failed as a result of these conditions. mrff=no.

U-0

Notification: **50341964** Type: **DA** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

Task # 2 Evaluate Long Term Impact

Status: **TSCO**	Task Completed		
Code Group: **DE-ENG-T**	Diablo Engineering Tasks		
Task Code: **0065**	Engineering Evaluation		
Responsible: **User Responsible**	**FXF2** Farzin Faili	**415/305-5228**	
Work Ctr: **EDC-011**	Chingburanakit, Sakdichai (Chai) - SXC8		
Created On: **16 Sep 10**	By: **JMSO** Jana M. Orlando		
Planned Start: **16 Sep 10**	Planned Finish: **23 Sep 10**		
Completed On: **23 Sep 10 09:32**	By: **FXF2** Farzin Faili	**415/305-5228**	

09/16/2010 15:25:47 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 14:24:10 Robert A. Waltos (RAW2) Phone 805/545-4400

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The evaluation in Task No. 2 provides an immediate determination of operability by operations. This is to request an evaluation of the identified conditions for long term reliability and is specific to the conditions described in items 1 through 4 in the Notification.

When the evaluation is complete, it has been requested by the Operations Manger that a DO-OPER Task be initiated and the Work Control Shift Foreman notified.

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09/23/2010 08:46:14 Chai Chingburanakit (SXC8)

ED Civil engineering response: A walkdown was performed by ED civil and 500KV and 230KV system engineering to identify and evaluate the as found conditions of items 1 through 4 of this notification.
Item 1. 230 KV switchyards # the minor hair line concrete cracks in the foundation are common in nature, and have no structural impact to existing foundation. The foundation is structurally sound to perform its design function.
Item 2. 500 KV switchyards # Spalled grout at the chamfered edge between one of the base plate and the foundation, this is the non-structure portion of the grout for the base plate. The subject base

plate maintains having full bearing on the remaining grout and adequately perform its design functions. The base plates have some rust and they are appeared to be surface rust. Therefore these

aforementioned items have no structure impact to the Transmission line Tower structure. However, it is recommended to clean and paint the base plates in accordance with PG&E spec. 8848, latest revision, and repair the grout in accordance with MIC P7.0, latest revision to prevent further corrosion and spall of grout.
Item 3. Switch 631 B phase # The grout between the steel base plates and the foundations has cracks along the chamfered edges which are non-structure. Therefore, there is no structural impact to the design structure.
Item 4. Switch 541 # Minor deflection of the vertical member at the lower part of the frame has no impact on the overall structural integrity of the frame work to perform its design functions. In addition, the aforementioned rusted bolt at the top N-W corner of the structure has surface rust. Structural integrity and capacity of the bolt is not affected or degraded by the rust. However, ED Civil engineering recommends to clean and paint the rusted bolt in accordance with PG&E spec 8848, latest revision.

09/23/2010 08:50:04 Chai Chingburanakit (SXC8)
This notification has been forwarded to fxf2 for peer review.
09/23/2010 08:52:39 Chai Chingburanakit (SXC8)

09/23/2010 09:26:51 Farzin Faili (FXF2) Phone 415/305-5228

As peer reviewer, I concur with the above evaluation.

Task # 3 Evaluate Long Term Impact

Status: **TSCO**	Task Completed		
Code Group: **DE-ENG-T**	Diablo Engineering Tasks		
Task Code: **0065**	Engineering Evaluation		
Responsible: **User Responsible**	**M4MN**	Manuel L. Munoz	**805/545-6164**
Work Ctr: **EIE-007**	Munoz Manuel - M4MN		
Created On: **16 Sep 10**	By: **JMSO** Jana M. Orlando		
Planned Start: **16 Sep 10**	Planned Finish: **23 Sep 10**		
Completed On: **26 Sep 10 15:52**	By: **JXG3** Joseph Goryance		**805/545-3454**

09/16/2010 15:25:47 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 14:26:05 Robert A. Waltos (RAW2) Phone 805/545-4400
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The evaluation in Task No. 2 provides an immediate determination of operability by operations of the conditions identified in the notification. This is to request an evaluation of the identified

conditions for long term reliability and is specific to the conditions described in items 5 of the Notification.

When the evaluation is complete, it has been requested by the Operations Manger that a DO-OPER Task be initiated and the Work Control Shift Foreman notified.

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09/23/2010 16:03:46 Manuel L. Munoz (M4MN) Phone 805/545-6164
Rick Reyes(R1R2), from PG&E-TLine department, is an expert at inspecting 500kV conductor, components, and insulating equipment. Rick has inspected 500kV switchyard conductor, components, and insulating equipment and has determined the system components to be in a "Good" condition. Current conditions do not indicate a long term reliability issue in the DCPP 500kV switchyard.
Conclusion:
The insulation level has been over designed which provide more insulation than what is required. Therefore the findings will not pose a threat to function of this system. The Expert TLine inspector is confident that this is a Low-Medium level of corrosion and through experience has commonly seen this level rust on the hot end of the insulators throughout the PG&E 500kV system. This is a cosmetic defect that has no reliability issues that will jeopardize the function of the 500kV system. His overall assessment of the 500kV insulators are that they are in "Good Shape" given the time frame which the have been in service. It is recommended, DCPP replace these insulators in 5 yrs, based on his industry experience and expertise. Due to the salt air corrosion environment, his recommendation is to continue our annual inspections of these insulators and continue to track any new findings during our quarterly walkdowns.

09/26/2010 15:48:05 Joseph Goryance (JXG3) Phone 805/545-3454
reviewed this task and consider it complete. new task created to track changes to the maintenance plan to replace the insulators within 5 years.

U-0

Notification: **50341964** Type: **DA** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

Task # 4 Follow-up OD

Status: **TSCO**	Task Completed
Code Group: **DO-OPER**	Operability Evaluation
Task Code: **OPER**	SSC is Operable
Responsible: **User Responsible**	
Work Ctr: **EIE-007**	
Created On: **24 Sep 10**	By: **RAW2** Robert A. Waltos
Planned Start: **24 Sep 10**	Planned Finish: **24 Sep 10**
Completed On: **24 Sep 10 18:05**	By: **FTB1** Fred T. Barthell **805/545-3117**

09/24/2010 13:59:41 Robert A. Waltos (RAW2) Phone 805/545-4400

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The immediate Operability Determination in Task No. 2 in 50341749 was based on the initial findings of the conditions described in the Notification. Subsequent evaluation has been performed by Engineering of the identified conditions in Task No's 2 and 3 of this Notification. Therefore, in accordance with the request in Task No's. 2 and 3, a follow-up Operability Determination is being requested

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09/24/2010 17:24:16 Fred T. Barthell (FTB1) Phone 805/545-3117

1.,,Describe the degraded or non conforming condition. If there is no such condition, for instance if the notification is tracking a future design change, write "No degraded or non conforming condition exists" in the task and do not answer the following questions.

The degraded conditions are as follows:

1. 230kV switchyard- hair line cracking in the foundation(West leg) of the CB 212 lattice structure.
2. 500kV switchyard- Transmission line Towers showed cracking on the grout of the foundations where the structure meets the concrete. Also, rust was present on metal plates used as spacers between the structure and foundation.
3. Switch 631 B phase structure found cracking in the grout where the structure meets the foundation.
4. Switch 541 A phase lower part of the structure is bent, foundation grout is cracked.
5. A bolt in the NW of the top of this structure is rusted.
6. 500kV switchyard- Transmission line towers, vertical and horizontal insulator bells show discoloration on the bells nearest to the energized Transmission Line. Rust was identified on A, B, and C phase.

2.,,Specify the SSC affected by the degraded or non conforming condition. If the component is not TS or ECG required and does not provide any support functions for TS or ECG required equipment write "The SSC has no safety function" in the task and do not answer the following questions.

The SSCs are the 230 and 500 kv systems.

3.,,Describe the effect or potential effect of the degraded or non conforming condition on the affected SSC's ability to perform its safety function.

The potential effect is if the conditions were to worsen over a long period of time, the physical strength of the components could weaken to the point of failing. This would result in a loss of power to the site as well as potentially causing a plant transient if a 500kv line were lost.

4.,,Summarize why there is reasonable expectation of OPERABILITY

Engineering evaluation findings:

Item 1. 230 KV switchyards # the minor hair line concrete cracks in the foundation are common in nature, and have no structural impact to existing foundation. The foundation is structurally sound to perform its design function.

Item 2. 500 KV switchyards # Spalled grout at the chamfered edge between one of the base plate and the foundation, this is the non-structure portion of the grout for the base plate. The subject base plate maintains having full bearing on the remaining grout and adequately perform its design functions. The base plates have some rust and they are appeared to be surface rust. Therefore these aforementioned items have no structure impact to the Transmission line Tower structure. However, it is recommended to clean and paint the base plates in accordance with PG&E spec. 8848, latest revision, and repair the grout in accordance with MIC P7.0, latest revision to prevent further corrosion and spall of grout.

Item 3. Switch 631 B phase # The grout between the steel base plates and the foundations has cracks along the chamfered edges which are non-structure. Therefore, there is no structural impact to the design structure.

Item 4. Switch 541 # Minor deflection of the vertical member at the lower part of the frame has no impact on the overall structural integrity of the frame work to perform its design functions. In addition, the aforementioned rusted bolt at the top N-W corner of the

structure has surface rust. Structural integrity and capacity of the bolt is not affected or degraded by the rust. However, ED Civil engineering recommends to clean and paint the rusted bolt in accordance with PG&E spec 8848, latest revision.

Line department evaluation results:

Rick Reyes(R1R2), from PG&E-TLine department, is an expert at inspecting 500kV conductor, components, and insulating equipment. Rick has inspected 500kV switchyard conductor, components, and insulating equipment and has determined the system components to be in a "Good" condition. Current conditions do not indicate a long term reliability issue in the DCPP 500kV switchyard.

Conclusion:

,,The insulation level has been over designed which provide more insulation than what is required. Therefore the findings will not pose a threat to function of this system. The Expert TLine inspector is confident that this is a Low-Medium level of corrosion and through experience has commonly seen this level rust on the hot end of the insulators throughout the PG&E 500kV system. This is a cosmetic defect that has no reliability issues that will jeopardize the function of the 500kV system. His overall assessment of the 500kV insulators are that they are in "Good Shape" given the time frame which the have been in service. It is recommended, DCPP replace these insulators in 5 yrs, based on his industry experience and expertise. Due to the salt air corrosion environment, his recommendation is to continue our annual inspections of these insulators and continue to track any new findings during our quarterly walkdowns.

The degradation of the concrete components of both the 230KV and 500KV are minor with slight cracking of non-supporting grout and chamfered edging. Metal structures have surface rust that does not affect component strength. The slight deflection of the vertical member of the frame work for switch 541 does not affect the integrity of the overall frame.

The electrical components are engineered to experience minor rust degradation into consideration allowing or normal corrosion levels for the service conditions of these components. No structural or electrical degradation has taken place the discoloration is cosmetic in nature.

Both the 230KV and 500KV systems will continue to perform their design functions and remain Operable.

U-0

Notification: **50341964** Type: **DA** Work Type: **EVAL AANS**

Description: **230kV & 500kV switchyard NRC inspection**

Order:

Task # 5 Review repalacement process

Status: **TSOS**	Task Outstanding			
Code Group: **DE-ENG-T**	Diablo Engineering Tasks			
Task Code: **0065**	Engineering Evaluation			
Responsible: **User Responsible**	**M4MN**	Manuel L. Munoz	**805/545-6164**	
Work Ctr: **EIE-007**	Munoz Manuel - M4MN			
Created On: **26 Sep 10**	By: **JXG3** Joseph Goryance			
Planned Start: **24 Sep 10**	Planned Finish: **10 Feb 11**			
Completed On:	By:			

09/26/2010 15:43:24 Joseph Goryance (JXG3) Phone 805/545-3454
Review of the maintenance history indicates these insulators are the original equipment installed when the switchyard was constructed. Request system engineering to coordinate with Transmission on a recommended replacement plan/schedule. Incorporate the T-Line recommendation to replace the insulators within 5 years into DCPP maintenance plans.

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Note: the T-Line insulators were replaced on the inter-plant towers for both unit 1 & 2 in between 2000/2003.

DC

Notification: **50341966** Type: **DA** Work Type: **EVAL AANS**

Description: **Evaluate Selective Leaching AMP**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **DNGD** Daniel J. Gibbons Rpt By Work Ctr: **PL**

Contact Info: Created On: **16 Sep 10 15:27**

Planner Group:

Main Wrk Ctr: **ETI-002** Beard Chris - CTB6

PROBLEM DESCRIPTION

09/16/2010 15:27:57 Jana M. Orlando (JMSO) Phone 805/545-3126
09/15/2010 16:48:08 Daniel J. Gibbons (DNGD)
Based on discussion with the NRC during the License Renewal Regional Inspection, the License Renewal Aging Management Program for Selective Leaching, XI.M33, will need to be evaluated in order to determine if the program should include a one time inspection or a periodic inspection plan, based on plant operating experience.
09/16/2010 14:03:14 Philippe R. Soenen (PNS3) Phone 805/781-9782

Furhter discussion with the NRC inspector identified the need to specifically address the potential need for a more substantial sampling (larger sample size or destructive testing) for the material and environment combination of saltwater and aluminum bronze.
09/16/2010 15:27:53 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
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DN closed to DA.
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Event Date **15 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

12/17/2010 13:49:21 Christopher T. Beard (CTB6) Phone 805/545-4581

In DCL-10-164, dated December 13, 2010 Diablo Canyon provided the basis for the sample selection for the DCPP Selective Leaching Program. The response and the sample selection is consistent with NUREG-1801 "Generic Aging Lessons Learn", Revision-2.

D-RAI B2.1.17-2

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Background

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GALL AMP XI.M33, "Selective Leaching of Materials" states, in the "scope of program" program element, that the program includes a one-time visual inspection and hardness measurement of a selected set of sample components to determine whether loss of material due to selective leaching is not occurring for the period of extended operation.

LRA Section B2.1.17, Selective Leaching of Materials, states that the program includes a one-time visual inspection and hardness measurement or other industry-accepted mechanical inspection techniques (where feasible based on form and configuration) of selected components that may be susceptible to selective leaching to determine whether loss of material due to selective leaching is occurring.

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Issue

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Due to the uncertainty in determining the most susceptible locations and the potential for aging to occur in other locations, the staff noted that large sample sizes (at least 20%) may be required in order to adequately confirm an aging effect is not occurring. The applicant's Selective Leaching Program does not include specific information regarding how the selected set of components will be chosen or how the sample size will be determined.

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Request

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Provide specific information regarding how the selected set of components to be sampled will be determined and the size of the sample of components that will be inspected.

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PG&E Response to D-RAI B2.1.17-2

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The Selective Leaching program component types including piping, valve bodies and bonnets, pump casings, and heat exchanger components that are susceptible to selective leaching. The materials of construction for these components may include gray cast iron and copper alloys (except for inhibited brass) containing greater than 15 percent zinc or greater than 8 percent aluminum. These components may be exposed to raw water, treated water, closed cooling water, ground water, water contaminated fuel oil, or water-contaminated lube oil.

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A representative sample of the component population focuses on those components most susceptible to aging due to time in service, severity of operating conditions, and lowest design margin. A sample size of twenty percent of the population with a maximum sample of 25 component inspections per unit will be established for each of the material and environment combinations. Components will be grouped by material and environment with each group of material and environment combinations considered as a separate population.

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A one-time inspection will be conducted within the 5-year period prior to the period of extended operation. For materials and environments where selective leaching is currently occurring or for materials in environments where the component has been repaired with the same material, a plant specific program will be created.

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DCL-10-164 is attached to this notification as a .pdf file.

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To be consistent with GALL Rev-2 Aluminum Bronze with >8% aluminum found in the DCPP saltwater system will require a periodic program to manage aging. This is based on operating experience that selective leaching has already been identified on aluminum bronze check valves. A preliminary review found that all the System-17 check valves have periodic inspections which includes steps to identify material loss. The remainder aluminum bronze valves will also need a PM to monitor for the occurrence of selective leaching.

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OTIs will be performed on the material/environments that have not experienced selective leaching. In the course of the OTI, the identification of selective leaching would require a recurring PM to manage aging at a frequency appropriate to maintain functionality.

12/17/2010 14:27:02 David A. Gonzalez (DAG1)

Reviewed.

STATUS DETAILS

System Status: **NOCO NOPT**

User Status: **20** **APPV** Approved

DC

Notification: **50342570** Type: **DA** Work Type: **EVAL AANS**

Description: **Documentation for LR Scoping of TB Comps**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **DNGD** Daniel J. Gibbons Rpt By Work Ctr: **PL**

Contact Info: Created On: **20 Sep 10 14:32**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/20/2010 14:32:37 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 14:57:27 Daniel J. Gibbons (DNGD)
During the NRC License Renewal Regional Inspection, it was requested that we provide documentation to show the evaluation of which components in the Turbine Building are in scope for license renewal. The specific components in question are the SCW Head Tank and the firewater piping in the vicinity of the Control Room Pressurization System.
09/20/2010 14:32:33 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
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DN closed to DA.
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10/13/2010 14:46:02 Daniel J. Gibbons (DNGD)
This was addressed in response to RAI 2.1-1. See DCL-10-132 dated 10-12-2010.

Event Date **16 Sep 10** Notif Required By **15 Oct 10** Station Sig.: **3 Work Group Eval**

DC

Notification: **50342570** Type: **DA** Work Type: **EVAL AANS**

Description: **Documentation for LR Scoping of TB Comps**

Order:

STATUS DETAILS

System Status: **NOCO NOPT**

User Status: **20** **APPV** Approved

DC

Notification: **50342573** Type: **DA** Work Type: **EVAL AANS**

Description: **Evaluate LR One Time Inspection Program**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **20 Sep 10 14:33**

Planner Group:

Main Wrk Ctr: **ETI-002** Beard Chris - CTB6

PROBLEM DESCRIPTION

09/20/2010 14:33:40 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 13:50:16 Philippe R. Soenen (PNS3) Phone 805/781-9782
During the license renewal regional inspection an NRC inspector requested that the license renewal one-time inspection aging management program be evaluated to consider revisions of te following items:

1) The basis for the currently proposed sample size. The NRC inspector relayed that the current sample size seemed appropriate for a single unit plant.

2) Consider including some samples of other material types for a given environment in addition to the material type that will be identified as the most susceptible material to the applicable aging effect for the environment.

3) Consider expanding the inpsection scope to other less susceptible material types if corrosion is identified during the inspection in addition to the material type that will be identified as the most susceptible material to the applicable aging effect for the environment.

There are no operability or equipment issues identified as part of this notification.

Event Date **16 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

09/20/2010 14:33:32 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

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DN closed to DA.

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12/17/2010 10:04:15 Christopher T. Beard (CTB6) Phone 805/545-4581
The DCPP One-Time Inspection Program will incorporate the above revisions as follows to ensure that the OTI program verifies the effectiveness of the Water Chemistry Program, Lubricating Oil Program and Fuel-Oil Chemistry Program.

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Item (1) The basis for the currently proposed sample size as of September 20, 2010.

In Letter dated October 27, 2010, DCL-10-134, DCPP supplemented the following RAI B2.1.16-1.

"In its July 7, 2010 response to RAI B2.1.16-1, the applicant provided details of the sampling procedure that will be used for the One-Time Inspection Program. However, the staff was unclear of the basis for sampling sizes selected for the various aging effects".

Prior to the response (provided below) additional clarifying phone calls were held with the NRC staff; these calls and engineering review of the selection process influenced the sample selection criteria that was developed. The resulting supplemental response to RAI B2.1.16-1 is the current basis for the sample selection criteria for the One-Time Inspection Program.

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One-Time Inspection - Water Chemistry

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The Diablo Canyon Power Plant (DCPP) One-Time Inspection (OTI) Program will verify the effectiveness of the Water Chemistry Program at managing material loss by identifying a population for each in-scope system where the full effect of a Water Chemistry Program may not be achieved, based on the most susceptible material within the system (i.e. carbon steel in feedwater system, stainless steel in chemical and volume control system) at stagnant locations. A sample of 10 percent of the stagnant locations with the most susceptible material type suitable for ultrasonic thickness examination will be inspected in each in-scope system per unit. The OTI Program will take credit for volumetric examinations performed under other Aging Management Program (AMP), such as flow-accelerated corrosion, when the above criteria is met and the exams are performed within the 10 years prior to the period of extended operation.

The DCPP OTI Program will verify the effectiveness of the Water Chemistry Program at managing cracking of stainless steel with temperatures greater than 140°F by identifying the population of components within in-scope systems that are at stagnant locations where the full benefit of effective Water Chemistry Program may not be achieved. A sample of 10 percent of this population of stainless steel greater than 140°F in stagnant or low flow locations will be inspected using ultrasonic techniques appropriate to detect cracking. The OTI Program will take credit for volumetric examinations performed under other AMPs, such as Class 1 small bore and in service inspection, when the above criteria is met and the exams are performed within the 10 years prior to the period of extended operation. In addition to the 10 percent sample in piping systems, the DCPP OTI Program will perform 100 percent (or maximum achievable) eddy current testing of stainless steel tubes in one non-regenerative heat exchanger.

The DCPP OTI Program will verify the effectiveness of the Water

Chemistry Program at managing fouling of heat exchanger tubes exposed to treated water by performing a visual examination of one heat exchanger per in-scope system, function, and material/environment combination per unit. Consideration of inspectability and radiological concerns will factor into the selection of heat exchangers for this sample.

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One-Time Inspection - Fuel Oil Chemistry

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The DCPP OTI Program will verify the effectiveness of the Fuel Chemistry Program at managing material loss by identifying a population of components within the diesel generator system (DG) and DG fuel transfer system, which are stagnant and at lower elevations that may permit the accumulation of water. A sample of 10 percent of carbon steel piping components identified in the DG system for each diesel as being stagnant and at a an elevation that would permit water accumulation will be examined using appropriate volumetric nondestructive examination techniques. In addition to the piping sample, stainless steel fuel oil priming tank bottoms will be volumetrically examined and carbon steel fuel oil day tanks that permit access to the inside surface of the tank bottom will be volumetrically examined to the extent accessible. A sample of 10 percent of carbon steel piping components identified in the DG fuel transfer system for each unit will be volumetrically inspected within the 10 years prior to the period of extended operation.

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One-Time Inspection - Lubricating Oil Analysis

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The DCPP OTI Program will verify the effectiveness of the Lubricating Oil Analysis Program at managing material loss by performing volumetric or visual examinations of one heat exchanger per in-scope system and

function per unit. For example, one copper alloy centrifugal charging pump lube oil cooler per unit out of a population of two coolers per unit will be examined. This sample selection would include aluminum, copper alloy, and carbon steel heat exchanger shells.

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Supplemental to Item (1)

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Although not committed to in DCL-10-134, DCPP supplement to RAI B2.1.16-1, the DCPP OTI Program sample basis stated above will be implemented on a per unit basis. The 10% sample of stagnant locations will be done per unit, with the sample selection for one unit/system/environment being different to the extent possible to the other unit/system/environment. Inspecting different locations within the same material/environment per unit increases the effectiveness of the sample program at identifying a potential aging mechanism.

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Items (2) and (3) consider inspecting other than the most susceptible material for each environment.

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The DCPP One-Time Inspection Program (OTI) will inspect the most susceptible material type for each environment during the implementation of the OTI Program. In the event the OTI Program identifies aging mechanisms such as material loss or cracking, the condition shall be entered into the CAP for fitness for service evaluation and extent of condition evaluation. Extent of condition evaluation for the DCPP One-Time Inspection program will include expanding inspection scope to other locations with similar material/environment for which the aging mechanism was first identified and also expanding scope to other materials within the environment for which aging was identified. This

scope expansion criteria will be applied using engineering judgment to ensure that the aging mechanism is adequately bounded to all materials, from most susceptible to least susceptible for the environment for which aging is identified.

STATUS DETAILS

System Status: **NOCO NOPT**

User Status: **20** **APPV** Approved

DC

Notification: **50342574** Type: **DA** Work Type: **EVAL AANS**

Description: **Evaluate LR App. J and IWE AMPs**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **20 Sep 10 14:33**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/20/2010 14:33:58 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 14:27:44 Philippe R. Soenen (PNS3) Phone 805/781-9782
During the license renewal regional inspection it was identified that the ten element evaluations for license renewal App. J and IWE aging management programs need to be evlauted to potentially clarify the cross referencing between these two aging management programs for the testing of penetration seals.
09/20/2010 14:33:54 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
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DN closed to DA.
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STATUS DETAILS

System Status: **OSNO NOPT**

User Status: **20** **APPV** Approved

Event Date **16 Sep 10** Notif Required By **30 Apr 11** Station Sig.: **3 Work Group Eval**

DC

Notification: **50342574** Type: **DA** Work Type: **EVAL AANS**

Description: **Evaluate LR App. J and IWE AMPs**

Order:

U-2

Notification: **50342575** Type: **DA** Work Type: **EVAL AANS**

Description: **Component material ref in SAP**

Order:

Funct. Loc: **DC-2-25-P-REG-AIR-I-2-1231A** **REG VLV TO FCV-633**

Reported By: **PNS3**	Philippe R. Soenen	Rpt By Work Ctr: **PL**
Contact Info: **PNS3**	Philippe R. Soenen 805/544-6984	Created On: **20 Sep 10 14:34**
Planner Group: **MPM**	Maint Plng - Mech	
Main Wrk Ctr: **PL**	Project Manager - License Renewal	

PROBLEM DESCRIPTION

09/20/2010 14:34:18 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 14:46:12 Philippe R. Soenen (PNS3) Phone 805/781-9782
During a license renewal regional inspection walkdown the material type for the Unit 2 AIR-I-I-1231A regulator was questions when compared to what SAP identifies the material to be. SAP identifies this component to be made of aluminum whereas the walkdown identified this component to be some type of copper alloy.

The component material needs to be verified int he field and SAP should be revised as necessary to reflect the actual material type. The license renewal application and the basis documents need to be revised as appropriate to reflect the correct material type.

There is no operability or functinal concern with this component it is only a documentation clarification.
09/20/2010 14:34:13 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 18.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

Event Date **16 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

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DN closed to DA.

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11/09/2010 16:44:51 Miranda Tan (M1TF)

Walkdown will be performed to verify component material for both Unit 1 and Unit 2. The license renewal application will be updated to reflect the correct material type as part of the annual update.

11/10/2010 08:25:34 Daniel J. Gibbons (DNGD)

On a walkdown on 11/10/2010, for Unit 2, AIR-I-1-1231A appeared to be constructed of stainless steel and copper alloy components on its pressure boundary based on visual and magnetic inspection. For Unit 1, AIR-I-1-1231A appeared to be aluminum based on visual and magnetic inspection.

11/11/2010 10:12:33 Daniel J. Gibbons (DNGD)

To correct the above, it should read "for Unit 2, AIR-I-2-1231A appeared to be constructed of stainless steel and copper alloy components on its pressure boundary based on visual and magnetic inspection." The clarify this statement, the valve consisted of a stainless steel piece and a copper alloy piece.

12/09/2010 09:00:56 Daniel J. Gibbons (DNGD)

Per the walkdown discussed above, AIR-I-2-1231A consists of a stainless steel and a copper alloy piece. After reviewing the vendor manual, 663169-146 Rev 3, all pressure retaining portions of the valve are stainless steel. The material of this valve is correctly classified as stainless steel in the License Renewal Application (LRA) and the License Renewal Data Management Tool (LRDMT). No further action is needed.

12/20/2010 08:32:55 Terence L. Grebel (TLG1) Phone 805/545-4160

I concur with the activity being complete.

STATUS DETAILS

System Status: **NOCO NOPT**

User Status: **20** **APPV** Approved

DC

Notification: **50344181** Type: **DA** Work Type: **EVAL AANS**

Description: **Material type in LRA for diesel pump**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **PNS3** Philippe R. Soenen Rpt By Work Ctr: **PL**

Contact Info: **PNS3** Philippe R. Soenen 805/544-6984 Created On: **27 Sep 10 14:08**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

09/27/2010 14:08:15 Jana M. Orlando (JMSO) Phone 805/545-3126
09/16/2010 15:08:20 Philippe R. Soenen (PNS3) Phone 805/781-9782
During the license renewal regional inspection it was identified that the material referenced for the diesel generator make up priming pump in the license renewal documents is PVC. Going through the vendor materials it was identified that the pumps are made of a trademark thermo-plastic. It needs to be evaluated if the material should be called out as something other than PVC in the application and basis documents. The aging effects and aging management needs to be evaluated for this material to confirm they are correct.

There is no equipment or functional issue associated with these components, only a documentation clarification needed.
09/27/2010 14:08:10 Jana M. Orlando (JMSO) Phone 805/545-3126
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 7.4. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.
.
DN closed to DA.

Event Date **16 Sep 10** Notif Required By **31 Dec 10** Station Sig.: **3 Work Group Eval**

DC

Notification: **50344181** Type: **DA** Work Type: **EVAL AANS**

Description: **Material type in LRA for diesel pump**

Order:

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12/29/2010 10:16:13 Terence L. Grebel (TLG1) Phone 805/545-4160

Complete see DCL-10-158 dated December 29, 2010

STATUS DETAILS

System Status: **NOCO NOPT**

User Status: **20** **APPV** Approved

DC

Notification: **50359698** Type: **DN** Work Type: **EVAL AANS**

Description: **Revise MA1.ID20 to Align with LRA**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **M1TF** Miranda Tan Rpt By Work Ctr: **PL**

Contact Info: **M1TF** Miranda Tan Created On: **08 Nov 10 11:28**

Planner Group:

Main Wrk Ctr: **PL** Project Manager - License Renewal

PROBLEM DESCRIPTION

11/08/2010 11:28:57 Miranda Tan (M1TF)
The License Renewal Application (LRA) for DCPP Units 1 and 2 was submitted on 11/23/09, DCL-09-079.

Procedure MA1.ID20, Testing/Inspections for Aux Saltwater System NRC Generic Letter 89-13 Compliance, Rev. 2, Section 5.7.7.a, states that "Although there is no commitment to test, CCW heat exchangers are part of GL 89-13: it is considered prudent to monitor heat transfer performance."

LRA Section B2.1.9, Open-Cycle Cooling Water System, states that DCPP performs periodic testing of the CCW heat exchangers prior to each refueling outage to verify their heat transfer capability.

Procedure MA1.ID20, Section 5.7.7.a, needs to be revised.
11/09/2010 14:43:09 Sandra M. Wessel (SML1) Phone 805/545-4154
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 21.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT Members.

Event Date **08 Nov 10** Notif Required By **31 Mar 11** Station Sig.: **3 Work Group Eval**

DC

Notification: **50359698** Type: **DN** Work Type: **EVAL AANS**

Description: **Revise MA1.ID20 to Align with LRA**

Order:

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DN closed to DA.

.

STATUS DETAILS

System Status: **NOCO ATCO**

User Status: **20** **APPV** Approved

Task # 1 000050360132

Status: **TSCO**	Task Completed	
Code Group: **DG-CR**	Condition Report	
Task Code: **OR**	Organizational	
Responsible: **User Responsible**		
Work Ctr:		
Created On: **09 Nov 10**	By: **SML1** Sandra M. Wessel	
Planned Start: **09 Nov 10**	Planned Finish: **09 Nov 10**	
Completed On: **09 Nov 10 14:43**	By: **SML1** Sandra M. Wessel	**805/545-4154**

DC

Notification: **50360132** Type: **DA** Work Type: **EVAL AANS**

Description: **Revise MA1.ID20 to Align with LRA**

Order:

Funct. Loc: **DC** **DIABLO CANYON**

Reported By: **M1TF** Miranda Tan Rpt By Work Ctr: **PL**

Contact Info: **M1TF** Miranda Tan Created On: **09 Nov 10 14:43**

Planner Group:

Main Wrk Ctr: **EMB-001** Anastasio Joe - JEA3

PROBLEM DESCRIPTION

11/09/2010 14:43:15 Sandra M. Wessel (SML1) Phone 805/545-4154
11/08/2010 11:28:57 Miranda Tan (M1TF)
The License Renewal Application (LRA) for DCPP Units 1 and 2 was submitted on 11/23/09, DCL-09-079.

Procedure MA1.ID20, Testing/Inspections for Aux Saltwater System NRC Generic Letter 89-13 Compliance, Rev. 2, Section 5.7.7.a, states that "Although there is no commitment to test, CCW heat exchangers are part of GL 89-13: it is considered prudent to monitor heat transfer performance."

LRA Section B2.1.9, Open-Cycle Cooling Water System, states that DCPP performs periodic testing of the CCW heat exchangers prior to each refueling outage to verify their heat transfer capability.

Procedure MA1.ID20, Section 5.7.7.a, needs to be revised.
11/09/2010 14:43:09 Sandra M. Wessel (SML1) Phone 805/545-4154
The issue/event documented on this notification was reviewed by the Notification Review Team (NRT) and determined to be the indicated significance level per OM7.ID1, Attachment 1, Category 21.1. If additional information is discovered that would affect the significance level determination, contact a member of the NRT or e-mail DCPP NRT

Event Date **08 Nov 10** Notif Required By **31 Mar 11** Station Sig.: **3 Work Group Eval**

Members.

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DN closed to DA.

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11/16/2010 08:01:42 Kevin Braico (KNBM) Phone 805/781-9414
Notification has been reassigned to procedure MA1.ID20 owner.

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12/07/2010 14:54:00 Lawrence S. Dunlap (LSD8) Phone 805/545-4443
Clarification:

Remove altogether 5.7.7.a, which states:
- Although there is no commitment to test, CCW heat exchangers are part of GL 89-13; it is considered prudent to monitor heat transfer performance.

leaving 5.7.7.b which states:
- Testing is performed prior to a refueling outage per recurring tasks 83363, 83364, 583363, and 583364. This demonstrates the effectiveness of heat transfer prior cleaning as described in step 5.5.1.

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STATUS DETAILS

System Status: **OSNO NOPT**

User Status: **20** **APPV** Approved