DiabloCanyonNPEm Resource

 From:
 Grebel, Terence [TLG1@pge.com]

 Sent:
 Thursday, October 28, 2010 5:52 PM

 To:
 Pick, Greg

 Cc:
 Tan, Miranda

 Subject:
 FW: Here's all but one for my AMPs

 Attachments:
 50123904.pdf; TS1ID11 Selective Leaching.DOC; A0350059.pdf; A0431200.pdf; A0438773.pdf; A0442225.pdf; A0460974.pdf; 50297724.pdf

 From:
 Braico, Kevin

 Sent:
 Thursday, October 28, 2010 2:22 PM

 To:
 Tan, Miranda

 Cc:
 Gibbons, Daniel J; Grebel, Terence

 Subject:
 Here's all but one for my AMPs

Documents Needed

Selective Leaching

Notification 50123904 <<50123904.pdf>> Procedure TS1.IDXX "Selective Leaching Degradation Program," Revision 0 <<TS1ID11 Selective Leaching.DOC>>

Buried Piping

A0350059

<<A0350059.pdf>> A0431200 <<A0431200.pdf>> A0438773 <<A0438773.pdf>> A0442225 <<A0442225.pdf>> A0460974 <<A0460974.pdf>>

Notifications

50297724 <<50297724.pdf>>

Fuel Oil Chemistry

2005 and 2009 chemistry audits electronically **IN PROGRESS**

Thanks,

Kevin Braico DCPP License Renewal Engineer 142 Cross St. Suite 200 San Luis Obispo, CA 93405 Phone: (805) 781-9414

| Hearing Identifier: | DiabloCanyon_LicenseRenewal_NonPublic |
|---------------------|---------------------------------------|
| Email Number: | 2048 |

Mail Envelope Properties (855985CB2A096741901904980FD8CB6C0408BC5E)

| Subject: | FW: Here's all but one for my AMPs |
|----------------|------------------------------------|
| Sent Date: | 10/28/2010 5:51:37 PM |
| Received Date: | 10/28/2010 5:51:45 PM |
| From: | Grebel, Terence |

Created By: TLG1@pge.com

Recipients:

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

| Post Office: | exchange18.Utility.pge.com |
|--------------|----------------------------|
|--------------|----------------------------|

| Files MESSAGE 50123904.pdf | Size 890 62476 | Date & Time 10/28/2010 5:51:45 PM |
|--|-----------------------------|---|
| TS1ID11 Selective Leaching.E A0350059.pdf A0431200.pdf A0438773.pdf A0442225.pdf A0440974.pdf 50297724.pdf | | 154688 |
| Options Priority: Return Notification: Reply Requested: Sensitivity: Expiration Date: Recipients Received: | Standard No Normal | |



Notification: **50123904**

Type: DN Work Type: EQPR AANS

Description: Fire water line break at SU Trans. 2-1.

Order: 60009683

Fire water line break at SU Trans. 2-1.

Funct. Loc: DC-0-18-P-P

U0 SYS 18 PIPING PIPE

Reported By: MWL9 Michael W. Lee

Contact Info:

Rpt By Work Ctr: **OPSD** Created On: **17 Dec 08 10:42**

Planner Group: CPC Const Plng - Civil

Main Wrk Ctr: MCC-PIPE Maint Const Crew - Pipefitter

PROBLEM DESCRIPTION

12/17/2008 10:35:51 Michael W. Lee (MWL9) Phone 805/545-3243 An underground fire water line to startup transformer 2-1 has broken. Fire water was flowing heavily from a hole at the base of the fire water deluge station for SU trans. 2-1. Flow was stopped by closing FW-1-FP7, isolating supply to the transformer. This also isolated fire water to SU trans. 1-1. 12/17/2008 13:34:17 Chai Chingburanakit (SXC8) EFIN CIVIL ENGINEERING'S RESPONSE: A walkdown was performed by SXC8. CFK1, and JEB6 to identify/determine any structural damage due to the leaking underground pipe. There were no damage and/or undermining of an y structure found in the vicinity during the walkdown. Shoring to suppo excavation to locate the leak and leak repair of piping. 12/17/2008 15:25:11 Daniel R. Stermer (DRS5) See clearance 0C15 D-18-058 and tech spec 1-TS-08-0336. 12/22/2008 15:43:46 Beverly J. Jones (BJA1) Phone 805/545-4044 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.

12/22/2008 18:44:08 Beverly J. Jones (BJA1) Phone 805/545-4044

Event Date 17 Dec 08Notif Required By 31 Mar 09Station Sig.: 2 Work Group Eval

| Notification: | 50123904 | Туре: DN | Work Type: EQPR | AANS |
|---|--------------------|-----------------------------------|-------------------------|----------------------|
| Description: | Fire water line | break at SU Trar | ns. 2-1. | |
| | 60009683 | | break at SU Trans. | 2_1 |
| Order | 00003003 | The water line | break at 50 Trails. | 2-1. |
| This DN notification has a co | ondition report (D | A) created. All re | sponses | |
| to address the condition rep | | - | | |
| organizational, programmati | • , | | • | |
| find number, click on task ta | b, DA number is | indicated in the ta | ask text | |
| of code DG-CR). | | | | |
| | | | 15 1107 | |
| 12/23/2008 13:43:03 Chad 0 | C. Sorensen (CC | SN) Phone 805/5 | 45-4467 | |
| Images of demosed size and | attached to this | Natification | | |
| Images of damaged pipe are | e attached to this | Nouncation. | | |
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| | STAT | <u>US DETAILS</u> | | |
| System Status: NOPR O | RAS NOPT OST | S | | |
| | PPV Approved | • | | |
| | - FV Apploved | | | |
| — — — — — — — — — — | | | | |
| | fication Tag Co | | | |
| Status: TSRL | | Released | | |
| Code Group: DO-TRACK | | perations | | |
| Task Code: NTAG | | ation Tag | | |
| Responsible: User Respo | onsidie | | | |
| Work Ctr: | | | | |
| Created On: 17 Dec 08 Planned Start: 17 Dec 08 | Planned F | By: MWL9 Mich inish: 17 Dec 08 | | |
| Completed On: | | By: | | |
| | 12/17/2008 10: | | ee (MWL9) Phone 805 | 5/5/5 22/2 |
| | | | plete Task Prior To Co | |
| | TAG LOCATIO TB. | N:on SU transforme | er 2-1 deluge header, o | directly north of U1 |
| | | | | |
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| | Notification: 50123 | 3904 | Type: DN | Nork Type: | EQPR AANS |
|---------------|--|--|---|---|--|
| U-0 | Description: Fire wat | er line bre | ak at SU Trans | . 2-1. | |
| | Order: 600096 | 83 Fi | re water line b | reak at SU T | Trans. 2-1. |
| Task # | # 2 | | | | |
| Status | : TSCO | Task Com | npleted | | |
| Code Group | : DO-EFFCT | DC Plant | Effect Assessm | ent | |
| Task Code | SFMR | SFM Revi | ew | | |
| Responsible | : User Responsible | | | | |
| Work Ctr | :: OPR | Operation | s Crew - On Sh | ift | |
| Created On | : 17 Dec 08 | B | y: MWL9 Micha | el W. Lee | |
| Planned Start | :: 17 Dec 08 Pla | anned Finisl | n: 17 Dec 08 | | |
| Completed On | : 17 Dec 08 15:29 | B | y: DRS5 Danie | R. Stermer | • |
| | | | | | |
| Task # | 4 3 Prepare LBI | E AD for ex | cavation | | |
| Status | : TSCO | Task Com | npleted | | |
| Code Group | : DG-EVAL | DC Gener | al Evaluations | | |
| Task Code | EVAL | Evaluate | the following (Se | ee Long Tex | (t) |
| Responsible | : User Responsible | CFK1 | Carl F. Kniftor | n 805/ | 545-6760 |
| Work Ctr | : MCC-FE04 | DO NOT | USE | | |
| Created On | : 17 Dec 08 | | y: GCA1 Gil C. | Apodaca | |
| Planned Start | :: 17 Dec 08 Pla | nned Finis | n: 17 Dec 08 | | |
| Completed On | : 18 Dec 08 15:44 | B | y: CFK1 Carl F | . Knifton | 805/545-6760 |
| | Please firewate 12/18/2 THIS L OF THI START THE FI GUSHI THE SI X 7 FT THIS V AND IS THERE REFEF ENGIN | perform LBI 2008 15:43:0 BIE AD ADD E FIREWATI UP TRANS REWATER I NG OUT OF ZE OF THE DEEP AT TI VORK IS IN S MAINTENA ARE VARIO RENCE DWO | E applicability de near SUT 2-1. 4 Carl F. Knifton RESSES ONLY ER LINE NORTH FORMER 2-1 DE PIPING BURST II THE AREA. EXCAVATION W HE DEEPEST PO SUPPORT FOR I NCE. DUS UTILITIES II GS: 438145, 4381 | CFK1) Phon THE EXCAV/ OF THE TUI LUGE SYST N THE AREA ILL BE APPF NTT. REPAIR FOR N THE AREA 49, AND 438 | ATION FOR THE REPAIR RBINE BUILDING FOR THE EM. AND WATER WAS ROXIMATELY 15 FT X 15 FT THE FIREWATER PIPING |

| U-0 | Notification: 50123904 Type: DN Work Type: EQPR AANS |
|------------|---|
| U-U | Description: Fire water line break at SU Trans. 2-1. |
| | Order: 60009683 Fire water line break at SU Trans. 2-1. |
| | UTILITIES FOR THE NEED TO SUPPORT AND/OR BRACE. SEE TASK 6. |
| | LBIE APPLICABILITY DETERMINATION |
| | LBIE SCREEN: 1. PROPOSED ACTIVITY/IMPLEMENTING DOCUMENT NO: NOTIFICATION 50123904. BRIEFLY DESCRIBE WHAT IS BEING CHANGED AND WHY. PROVIDE THE EXCAVATION FOR THE FIREWATER LINE. NORTH OF THE TURBINE BUILDING FOR THE START UP TRANSFORMER 2-1 DELUGE SYSTEM. THE FIREWATER PIPING BURST IN THE AREA AND WATER WAS GUSHING OUT OF THE AREA. THE SIZE OF THE EXCAVATION WILL BE APPROXIMATELY 15 FT X 15 FT X 7 FT DEEP AT THE DEEPSET POINT. THIS WORK IS IN SUPPORT FOR THE MAINTENANCE REPAIR OF THE FIREWATER LINE. SOIL IS COVERED IN THE Q-LIST IN SECTIONS I.M.7, SLOPE EAST OF THE POWER BLOCK AND III.H.4.1.2, COMPONENTS FOR BURIED BYPASS PIPING NORTH OF THE INTAKE STRUCTURE. THE SOIL/SLOPE CLASSIFICATION IS OUALITY CLASS 'S, DESIGN CLASS II. THE SLOPE CLASSIFICATION IS OND THEAR ANY QUALITY CLASS 'S' SOIL AS SHOWN ON DRAWING 445675. THIS EXCAVATION IS NOT NEAR ANY QUALITY CLASS 'S' SOIL AND IT IS ACCEPTABLE TO EXCAVATE IN THE AREA. |
| | NO. |
| | |

| U-0 | Notification: 50123904 Type: DN Work Type: EQPR AANS Description: Fire water line break at SU Trans. 2-1. |
|------------|--|
| | Order: 60009683 Fire water line break at SU Trans. 2-1. |
| | 2J. MAINTENANCE THAT RESTORES SSCS TO THEIR ORIGINAL OR NEWLY APPROVED DESIGNED CONDITION? THE ANSWER IS YES. NO 10 CFR 50.59 IS REQUIRED. 2K. A TEMPORARY ALTERATION SUPPORTING MAINTENANCE THAT WILL BE IN EFFECT DURING AT-POWER OPERATIONS FOR 90 DAYS OR LESS? THE ANSWER IS NO. |
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| U-0 | Notification: 50123904 Type: DN Work Type: EQPR AANS Description: Fire water line break at SU Trans. 2-1 . |
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| | Order: 60009683 Fire water line break at SU Trans. 2-1. |
| | 2L. MANAGERIAL OR ADMINISTRATIVE PROCEDURE/PROCESS CONTROLLED UNDER 10 CFR 50, APP. B? THE ANSWER IS NO. 2M. REGULATORY COMMITMENT NOT COVERED BY ANOTHER REGULATORY BASED CHANGE PROCESS? THE ANSWER IS NO. 2N. AN IMPACT TO OTHER SPECIFIC PROGRAMS (E.G. THE ODCM) THAT ARE CONTROLLED BY REGULATIONS, THE OL OR TS? THE ANSWER IS NO. |
| | 3. APPLICABILITY DETERMINATION CONCLUSIONS: A 10CFR 50.59 SCREEN WILL NOT BE COMPLETED BECAUSE ALL OF THE ASPECTS OF THE ACTIVITY ARE CONTROLLED BY SOME OF THE PROCESSES LISTED ABOVE. A 10 CFR 72.48 SCREEN IS NOT REQUIRED SINCE THE EXCAVATION IS FAR FROM ANY DRY CASK ROUTE. |
| | 4. DOES THE PROPOSED ACTIVITY INVOLVE A CHANGE TO THE PLANT WHERE THE CHANGE REQUIRES A SAFETY ASSESSMENT? THE ANSWER IS NO. |
| | 5. REMARKS: |
| | DISCUSSION FOR SECTION 2.A, CHANGE TO THE FACILITY/ISFSI OPERATING LICENSE (OL), ENVIRONMENTAL PROTECTION PLAN (EPP) OR TECHNICAL SPECIFICATIONS (TS): THE GROUND EXCAVATION FOR THE REPAIR OF THE FIREWATER LINE DOES NOT INVOLVE A CHANGE TO THE FACILITY/ISFSI OPERATING LICENSE (OL). ENVIRONMENTAL PROTECTION PLAN (EPP) OR TECHNICAL SPECIFICATION (TS). A REVIEW OF THE TECHNICAL SPECIFICATIONS DETERMINED THAT NO CHANGES TO TECHNICAL SPECIFICATIONS ARE REQUIRED TO IMPLEMENT THIS EXCAVATION. IMPLEMENTING ACTIVITIES ARE PROGRAMMED TO COMPLY FULLY WITH THE APPLICABLE REQUIREMENTS CONTAINED IN THE PLANT TECHNICAL SPECIFICATIONS. THE LOCATION OF THE EXCAVATION IS OUTSIDE THE POWER BLOCK BUILDINGS BUT WITHIN THE STARTUP TRANSFORMER AREA. THE EXCAVATION IS NOT NEAR ANY OF THE QUALITY CLASS 'S' SOIL. THE FIRE WATER PIPING WILL BE EXPOSED IN THIS AREA FOR REPAIR. THE FIREWATER LINE HAS BEEN TAKEN OUT OF SERVICE AND IS BEING CONTROLLED BY PLANT PROCEDURES AND OPERATIONS. THE EXCAVATION WILL NOT CHANGE ANY OF THE REQUIREMENTS LISTED ABOVE. SOIL IS LISTED IN THE Q-LIST, SECTIONS I.M.7, SLOPE EAST OF THE POWER BLOCK AND III.H.4.1.2, COMPONENTS FOR BURIED BYPASS PIPING NORTH OF THE INTAKE STRUCTURE. THE SOIL/SLOPE CLASSIFICATION IS QUALITY CLASS 'S', DESIGN CLASS II. |

| U-0 | Notification: 50123904Type: DNWork Type: EQPRAANSDescription: Fire water line break at SU Trans. 2-1. |
|------------|--|
| | Order: 60009683 Fire water line break at SU Trans. 2-1. |
| | THIS WAS REVIEWED WITH ENVIRONMENTAL GROUP, TREVOR REBEL AND VERBALLY VERIFIED THAT THERE IS NO IMPACT TO THE ENVIRONMENT PLAN ON 12/17/08. SOIL SHALL BE CONTROLLED AT ALL TIMES. |
| | DISCUSSION FOR SECTION 2.B, CHANGE TO THE QUALITY ASSURANCE PROGRAM: THIS LBIE APPLICABILITY DETERMINATION IS ONLY FOR EXCAVATION. THE FIREWATER PIPING IN THIS AREA WILL BE REPAIRED AS MAINTENANCE AND THE REPAIR WILL BE CONTROLLED BY THE WORK |
| | ORDER. SOIL IS COVERED IN THE Q-LIST IN SECTION I.M.7, SLOPE EAST OF THE POWER BLOCK AND III.H.4.1.2, COMPONENTS FOR BURIED BYPASS PIPING NORTH OF THE INTAKE STRUCTURE. THE SOIL/SLOPE CLASSIFICATION QUALITY CLASS IS 'S', DESIGN CLASS II. THE 'S' SOIL AT THE TOP OF THE SLOPE EAST OF THE INTAKE STRUCTURE SHOWN DWG 445674. SINCE THE WORK WILL NOT IMPACT THE DESIGN FUNCTION OF SOIL IN THIS AREA AND THE SOIL WILL BE RETURN TO THE DESIGN CONFIGURATION, THERE WILL BE NO CHANGES TO THE DCPP QA PROGRAM AS A RESULT OF THIS EXCAVATION. |
| | DISCUSSION FOR SECTION 2.C, CHANGE TO THE SECURITY PLAN: THIS GROUND EXCAVATION WAS REVIEWED AGAINST THE SECURITY PLANS PRE-SCREEN ITEMS IN APPENDIX 7.5 OF PROCEDURE TS3.ID2, LICENSING BASIS IMPACT EVALUATIONS. THE WORK INVOLVES EXCAVATION THAT IS NOTED IN APPENDIX 7.5. THEREFORE, SECURITY HAS EVALUATED AND NOTED THAT THERE IS NO IMPACT TO THE SECURITY PLAN. THIS WAS REVIEWED WITH SECURITY GROUP, TIM GRAF AND VERBALLY VERIFIED THAT THERE IS NO IMPACT TO THE SECURITY PLAN ON 12/18/08. THE EXCAVATION IS NOT WITHIN 10 FEET OF ANY SECURITY BARRIERS. LIGHTING WILL BE PROVIDED AT THE EXCAVATION. |
| | DISCUSSION FOR SECTION 2.D, CHANGE TO THE EMERGENCY PLAN: THIS WORK WAS REVIEWED AGAINST THE EMERGENCY PLAN PRE-SCREEN CRITERIA OF APPENDIX 7.4 OF PROCEDURE TS3.ID2, LICENSING BASIS IMPACT EVALUATIONS, AS WELL AS THE EMERGENCY PLAN ITSELF TO DETERMINE IS ANY POTENTIAL IMPACTS TO THE EMERGENCY PLAN WOULD RESULT FROM IMPLEMENTATION OF THIS EXCAVATION. THE EXCAVATION DOES NOT IMPACT ANY EVACUATION ROUTES FROM THE PLANT. NO REPAIR IMPLEMENTATION ACTIVITIES WERE IDENTIFIED WHICH COULD IMPACT ANY OF THE EMERGENCY PLAN ILLUSTRATIONS/FIGURES, ASSUMPTIONS, CONCLUSIONS, OR ANY OF THE APPENDIX 7.4 LISTED EMERGENCY PLAN PRE-SCREEN ITEMS. |

| U-0 | Notification: 50123904 Type: DN Work Type: EQPR AANS Description: Fire water line break at SU Trans. 2-1 . |
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| | Order: 60009683 Fire water line break at SU Trans. 2-1. |
| | DISCUSSION FOR SECTION 2.E, CHANGE TO THE INSERVICE TESTING (IST) PLAN: EXCAVATION OF SOIL WILL NOT INVOLVE ANY INSERVICE INSPECTION. THE WORK IS NOT SAFETY-RELATED AND NOT COVER BY ASME CODE. THEREFORE THE (IST) |
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| U-0 | Notification: 50123904 Type: DN Work Type: EQPR AANS Description: Fire water line break at SU Trans. 2-1. |
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| | Order: 60009683 Fire water line break at SU Trans. 2-1. |
| | PROGRAM PLAN IS NOT AFFECTED. |
| | DISCUSSION FOR SECTION 2.F, CHANGE TO THE INSERVICE INSPECTION (ISI) PLAN: EXCAVATION OF SOIL WILL NOT INVOLVE ANY INSERVICE INSPECTION. THE WORK IS NOT SAFETY-RELATED AND NOT COVER BY ASME CODE. THEREFORE THE (ISI) PROGRAM PLAN IS NOT AFFECTED. |
| | DISCUSSION FOR SECTION 2.G, CHANGE TO THE FIRE PROTECTION PLAN: THE EXCAVATION WILL NOT CREATE ANY PERMANENT NEW FIRE LOADS TO ANY AREAS. THE EXCAVATION DOES NOT IMPACT THE FIRE DETECTION, PROTECTION, MONITORING FUNCTIONS, RESPONSE TO A FIRE CALL, OR INGRESS/EGRESS PERSONNEL PATHWAYS IN RESPONSE TO A FIRE. THE FIREWATER PIPING TO IN THIS AREA WILL BE REPAIRED AND IS UNDER THE DIRECTION OF OPERATIONS FOR COMPLIANCE TO PLANT PROCEDURES. |
| | DISCUSSION FOR SECTION 2.H, NONCOMPLIANCE WITH THE ENVIRONMENTAL PROTECTION PLAN OR MAY CREATE A SITUATION ADVERSE TO THE ENVIRONMENT: THIS GROUND EXCAVATION WAS REVIEWED AGAINST THE ENVIRONMENTAL EVALUATION PRE-SCREEN CRITERIA OF APPENDIX 7.3 OF PROCEDURE TS3.ID2, LICENSING BASIS IMPACT EVALUATIONS. IN APPENDIX 7.3 ENVIRONMENTAL EVALUATION PRE-SCREEN CRITERIA EXCAVATION IS MENTIONED. THE SOIL SHALL BE PREVENTED FROM RUNNING OFF INTO THE ENVIRONMENT AND SHALL BE CONTROLLED AT ALL TIMES. THIS AREA HAS BEEN PREVIOUSLY DISTURBED. THE ENVIRONMENTAL GROUP SHALL EVALUATE THE EXCAVATION FOR A SITUATION ADVERSE TO THE ENVIRONMENT. THIS WAS REVIEWED WITH ENVIRONMENTAL GROUP, TREVOR REBEL AND VERBALLY VERIFIED THAT THERE IS NO IMPACT TO THE ENVIRONMENT PLAN ON 12/17/08. |
| | DISCUSSION FOR SECTION 2.1, CHANGE TO THE FSARU (INCLUDING DOCUMENTS INCORPORATED BY REFERENCE) EXCLUDED FROM THE REQUIREMENT TO PERFORM A 50.59/72.48 REVIEW: SECTIONS 2.4.5.7 AND 9.2.7.2.4 WERE REVIEWED FOR SOIL AND TSUNAMI CONCERNS FOR THE ASW PIPING. THERE ARE NO CHANGES TO THE FSARU THAT RESULT FROM IMPLEMENTING THIS EXCAVATION (INCLUDING DOCUMENTS INCORPORATED BY REFERENCE), WHICH ARE EXCLUDED FROM THE REQUIREMENT TO PERFORM A 50.59/72.48 REVIEW. SOIL AND |

| U-0 | Notification: 50123904Type: DNWork Type: EQPRAANSDescription: Fire water line break at SU Trans. 2-1.Order: 60009683Fire water line break at SU Trans. 2-1. |
|-----|--|
| | TSUNAMI ARE ONLY DISCUSSED GENERICALLY IN REFERENCE TO THE QUALITY CLASS 'S' SOIL. THE AREA TO BE EXCAVATED IS NOT NEAR THE QUALITY CLASS 'S' SOIL. 72.48 REVIEW IS NOT REQUIRED SINCE THE AREA OF THE EXCAVATION IS NOT ANY WHERE NEAR THE ROUTE THAT THE DRY CASK WILL TAKE. |
| | DISCUSSION FOR SECTION 2.J, MAINTENANCE THAT RESTORES SSCS TO THEIR ORIGINAL OR NEWLY APPROVED DESIGNED CONDITION: THE EXCAVATION IS IN SUPPORT OF MAINTENANCE TO REPAIR A LEAKING FIREWATER VALVE. THE EXCAVATION WILL REMOVE THE SOIL AND THEN REPLACE THE SOIL IN THE SAME CONFIGURATION TO RETURN THE SOIL TO ITS DESIGN CONFIGURATION. |
| | DISCUSSION FOR SECTION 2.K, TEMPORARY ALTERATION SUPPORTING MAINTENANCE THAT WILL BE IN EFFECT DURING AT POWER OPERATIONS FOR 90 DAYS OR LESS. THIS LEAK REPAIR IS PERMANENT REPAIR OF PIPING. |
| | DISCUSSION FOR SECTION 2.L, MANAGERIAL OR ADMINISTRATIVE PROCEDURE/PROCESS CONTROLLED UNDER 10 CFR 50, APP. B: THIS EXCAVATION DOES NOT INVOLVE A CHANGE TO MANAGERIAL OR ADMINISTRATIVE PROCEDURES/PROCESS CONTROLLED UNDER 10 CFR 50, APPENDIX B. THE WORK WILL BE DONE IN ACCORDANCE WITH EXISTING PLANT PROCEDURES. |
| | DISCUSSION FOR SECTION 2.M, REGULATORY COMMITMENT NOT COVERED BY ANOTHER REGULATORY BASED CHANGE PROCESS: IN PREPARING FOR EXCAVATION, THE PROCEDURE COMMITMENT DATABASE (PCD) WAS REVIEWED, VIA THE PIMS PROGRAM. NO ITEM WAS DISCOVERED WHERE THE MODIFICATIONS PERFORMED FOR EXCAVATION OR ITS IMPLEMENTING ACTIVITIES WOULD BE IN VARIANCE WITH DCPP REGULATORY COMMITMENTS AND OBLIGATIONS. |
| | DISCUSSION FOR SECTION 2.N, AN IMPACT TO OTHER SPECIFIC PROGRAMS (E.G. THE ODCM) THAT ARE CONTROLLED BY REGULATIONS, THE OL OR TS: THE SCOPE OF THE EXCAVATION ACTIVITIES WAS REVIEWED FOR APPLICABILITY TO THE REGULATORY PROCESS DESCRIBED IN THE USA 50.59 RESOURCE MANUAL, SECTION 4.2.1 (OTHER REGULATORY REQUIREMENTS AND CONTROLS). THE WORK RELATED TO THE EXCAVATION WAS REVIEWED TO SECTION 4.2.1 AND THE ITEMS DESCRIBED DO NOT COVER THE WORK. THE WORK DOES NOT IMPACT OTHER PROGRAMS. |
| | APPLICABILITY DETERMINATION CONCLUSION: |

| U-0 | Description: I | 50123904 Fire water lin 60009683 | e break at S | U Tran | ıs. 2-1. | ype: EQPR | |
|-------------|------------------------|--|--|---|---|--|--|
| | | THE PROCES MAINTENAN CONDITION) A 10 CFR 72. DRY CASK R DISCUSSION INVOLVE A C SAFETY ASS BASED ON A APPENDIX 7 EVALUATION SAFETY ASS THE EXCAVA ENGINEERIN | THE ACTIV SSES LISTEI CE TO RETU 48 IS NOT R OUTES. FOR SECTI CHANGE TO SESSMENT: REVIEW OF 6 OF PROCI SESSMENT D SESSMENT D ATION IS NO IG HAS EVAI UND UTILITI | ITY ARE ABOV RN THE EQUIRE ON 4, D THE PL THE SA DURE UIREMI OES NO T NEAR UATED | E CONTR E (I.E. TH SSC TC ED SINCE OES THI ANT WH AFETY A TS3.ID2, ENT FOR DT APPL ANY QU THE EX | ROLLED BY (HE EXCAVA D ITS ORIGIN E THE WORK E PROPOSE ERE THE CH SSESSMEN LICENSING A SEPARA Y TO THE E JALITY CLAS (ISTING FOL | ONE OR MORE OF TION IS PART OF A NAL DESIGN K IS NOT NEAR ANY D ACTIVITY HANGE REQUIRES A T CRITERIA OF BASIS IMPACT TELY PREFORMED XCAVATION SINCE |
| Task | # 4 | | | | | | |
| State | us: TSCO | Tasł | < Completed | | | | |
| Code Grou | up: DO-OPER | Ope | rability Evalu | uation | | | |
| Task Coo | de: INOP | SSC | is Inoperab | le | | | |
| Responsib | le: User Respo | nsible | | | | | |
| Work C | Ctr: MCC-FE04 | | | | | | |
| Created C | Dn: 17 Dec 08 | | By: DR | 35 Dani | iel R. Ste | ermer | |
| Planned Sta | art: 17 Dec 08 | Planned | Finish: 17 D | ec 08 | | | |
| Completed C | Dn: 17 Dec 08 1 | 5:29 | By: DRS | 5 Dani | iel R. Ste | ermer | |
| | | | | | | | |

| U-0 | Notification: 5012 | |
|---------------|--|--|
| | Description: Fire wa | ter line break at SU Trans. 2-1. |
| | Order: 600096 | Fire water line break at SU Trans. 2-1. |
| Task # | | |
| Status | SE TSCO | Task Completed |
| Code Group | : DG-EVAL | DC General Evaluations |
| Task Code | EVAL | Evaluate the following (See Long Text) |
| Responsible | : User Responsible | SXC8 Chai |
| Work Ctr | :: EIF-007 | Green Erban - ELG1 |
| Created On | : 17 Dec 08 | By: JES2 Joy E. Skaggs |
| Planned Start | t: 23 Dec 08 Pla | anned Finish: 23 Dec 08 |
| Completed On | 23 Dec 08 13:51 | By: SXC8 Chai |
| | 12/18/2 Ref. 50 FP-2-F on recorreport recomm 2007 A report) with ac corrosi underg 12/23/2 Norma transpo seismit temper the ver This po transpo it is un span o likely h was no minor n wall ar conclu is eithe piping or insta unusua | m an extent of condition review for similar fire water piping. 2008 13:03:11 Daniel E. Hromyak (DEHB) Phone 805/545-4256 2034095 for degraded condition found at similar location at deluge valve CV-213. FP maintenance strategy for buried pipe is run to failure based ent studies documented in the buried pipe life cycle management (LCM) (filenet path eng/syseng/releng/lcm). ATS corrosion specialist mends the addition of cathodic protection to yard loop metal risers (ref. ATS fire water system corrosion protection and monitoring annual b. FP SE to develop PHIP to replace risers to yard loop deluge stations didition of cathodic protection considering the ATS recommendation, LCM ion projections, and recent exterior FP corrosion problems both ground and above ground. This is a long term aging issue. 2008 13:46:50 Chai Chingburanakit (SXC8) Illy, underground/buried pipes sustain damage due to heavy loads being orted over the area, differential settlement of soil adjacent to the piping, c events, age of the pipe (corrosion), water hammer, and extreme rature change (cold). However, the damaged location of this piping is on tical section of the pipe. The break is approximately 2" diameter hole. ortion of the pipe. From the configuration and the location of the break likely to have been caused by water hammer (the hole close to the mid of the straight pipe. Normally pipe ruptures due to water hammer most appen where the pipe changes direction or at the end connections). It ot cause by seismic event or extreme temperature change. There is rust on outside surface of the pipe and not around the break area. The ound the hole seems to have uniform nominal thickness. Engineering ded that the possible cause for the pipe to break in the existing location er a defect on the during fabrication and or was damaged or weakened during construction allation activities. Vertical cast iron pipe break in such manner is very al through out the history of the plant. This is just to be an isolated case. fore, the extended condition is confined |

| Notification: | 50123904Type: DNWork Type: EQPRAANS |
|------------------------------|--|
| Description: | Fire water line break at SU Trans. 2-1. |
| Order: | 60009683 Fire water line break at SU Trans. 2-1. |
| | |
| | orting of unground |
| Status: TSCO | Task Completed |
| Code Group: DE-ENG-T | Diablo Engineering Tasks |
| Task Code: 0065 | Engineering Evaluation |
| Responsible: User Respon | nsible SXC8 Chai |
| Work Ctr: EIF-007 | |
| Created On: 18 Dec 08 | By: CFK1 Carl F. Knifton |
| Planned Start: 18 Dec 08 | Planned Finish: 18 Dec 08 |
| Completed On: 18 Dec 08 13 | 3:00 By: SXC8 Chai |
| Task # 7 Provi | Please, evaluate the need of supporting/bracing of plant components in th area of the excavation. Conduits have been placed over the top of the pipe and the excavation wi expose the conduit/duct bank. Will this need to be supported? Provide de for the supports. A bus duct support is within the excavation area also. Does this need to b braced? Provide any other support information as needed. 12/18/2008 12:50:03 Chai Chingburanakit (SXC8) Efin civil engineering's response: A walkdown was performed by SXC8 of and the carpenter foremen to determine how to temporarily support the bu duct and the deluge piping via scaffolding as a secondary measure. Engineering will provide all necessary details to support the bus duct and deluge piping to the carpenters as required. |
| Status: TSCO | Task Completed |
| Code Group: DG-RSTR | Restraints |
| Task Code: PLNC | Construction Planning |
| Responsible: User Respon | 5 |
| Work Ctr: MCD-INS | Foreman - Isulation - Jeff Maysey |
| Created On: 18 Dec 08 | By: GTG5 George T. Gerczak |
| Planned Start: 22 Dec 08 | Planned Finish: 24 Dec 08 |
| Completed On: 22 Dec 08 12 | |
| | |
| | 12/18/2008 14:41:21 George T. Gerczak (GTG5) Phone 805/545-6426 Please provide coatings support for any modifications to the underground |
| | |

| U-0 | Notification: 50123904 Type: DN Work Type: EQPR AANS Description: Fire water line break at SU Trans. 2-1. Order: 60009683 Fire water line break at SU Trans. 2-1. fire protection system as needed. Reference drawing 438145 related to any replacement of quicting material with dustile inter Any material with dustile |
|--------------|---|
| | replacement of existing material with ductile iron. Any replacement of existing ACP (asbestos-cement pipe) would also require support. 12/22/2008 12:16:00 Michael S. Crigler (MSCE) Phone 805/545-3881 See order 60009806 providing coating support for this project. note; There is no provision for asbestos since the replacement pipe riser is the only work intended. Mike Crigler |
| Task # | |
| | s: TSCO Task Completed |
| | DC General Evaluations |
| Task Code | e: EVAL Evaluate the following (See Long Text) |
| Responsible | e: User Responsible SXC8 Chai |
| Work Ctr | r: MCD-INS |
| | n: 18 Dec 08 By: CFK1 Carl F. Knifton |
| Planned Star | t: 18 Dec 08 Planned Finish: 18 Dec 08 |
| Completed Or | n: 18 Dec 08 15:59 By: SXC8 Chai |
| | 12/18/2008 14:55:19 Carl F. Knifton (CFK1) Phone 805/545-6760 Please, perform the ITR for the LBIE AD for the excavation. 12/18/2008 15:59:22 Chai Chingburanakit (SXC8) I HAVE REVIEWED THE LBIE APPLICABILITY DETERMINATION AND CONCUR WITH THE CONCLUSION. ALL QUESTIONS IN THE LBIE APPLICABLE DETERMINATION HAVE BEEN ANSWERED. ALL THE APPLICABLE COORDINATION HAVE BEEN VERBALLY COORDINATED. |
| | |

| | Notification: 5 | 0123904 Type: DN Work Type: I | EQPR AANS |
|----------------|------------------|---|----------------|
| U-0 | | | |
| | Description. FI | re water line break at SU Trans. 2-1. | |
| | Order: 6(| D009683 Fire water line break at SU 1 | Frans. 2-1. |
| Task # | 9 MRFF : | = Yes | |
| Status: | TSCO | Task Completed | |
| Code Group: | DE-MRULE | DC Maintenance Rule | |
| Task Code: | RFFY | Maint Rule Funct. Failure: YES | |
| Responsible: | User Respons | sible | |
| Work Ctr: | EADM | Maintenance Rule Eval - Task | |
| Created On: | 18 Dec 08 | By: JES2 Joy E. Skaggs | |
| Planned Start: | 18 Dec 08 | Planned Finish: 17 Jan 09 | |
| Completed On: | 19 Dec 08 16:4 | 45 By: DEHB Daniel E. Hromyal | 805/545-4256 |
| | | 12/19/2008 16:44:55 Daniel E. Hromyak (DEHB) F Loss of pressure boundary occurred rendering de | |
| Task # | | | |
| Status: | TSCO | Task Completed | |
| Code Group: | DG-EVAL | DC General Evaluations | |
| Task Code: | NRT | NRT Review Item/Request | |
| Responsible: | User Respons | sible | |
| Work Ctr: | NP-NRT | NRT Committee | |
| Created On: | 19 Dec 08 | By: DEHB Daniel E. Hromyal | (|
| Planned Start: | 22 Dec 08 | Planned Finish: 22 Dec 08 | |
| Completed On: | 22 Dec 08 15: | 26 By: CNO2 Chris N. Over | 805/545-4813 |
| | | 12/22/2008 15:26:25 Chris N. Over (CNO2) Phone Determined to be SL-2 by the 12/22/08 NRT. | 9 805/545-4813 |
| Task # | | A for Task | |
| Status: | | Task Completed | |
| Code Group: | DE-MRULE | DC Maintenance Rule | |
| Task Code: | RFFN | Maint Rule Funct. Failure: NO | |
| Responsible: | User Respons | sible | |
| Work Ctr: | EMB-004 | Hromyak Dan - DEHB | |
| Created On: | 19 Dec 08 | By: DEHB Daniel E. Hromyal | (|
| Planned Start: | 19 Dec 08 | Planned Finish: 17 Feb 09 | |
| Completed On: | 22 Dec 08 15:4 | 45 By: BJA1 Beverly J. Jones | 805/545-4044 |
| | | | |
| | | | |

| | Notification: 50 | 0123904 Type: DN Work Type: EQPR AANS |
|----------------|-------------------|--|
| U-0 | Description: Fire | re water line break at SU Trans. 2-1. |
| | | |
| | Order: 60(| 009683 Fire water line break at SU Trans. 2-1. |
| Task # | 12 eng eva | al brace & demo |
| Status: | TSCO | Task Completed |
| Code Group: | DG-EVAL | DC General Evaluations |
| Task Code: | EVAL | Evaluate the following (See Long Text) |
| Responsible: | User Responsi | ible |
| Work Ctr: | EMB-004 | |
| Created On: | 20 Dec 08 | By: DEHB Daniel E. Hromyak |
| Planned Start: | 26 Feb 09 | Planned Finish: 26 Feb 09 |
| Completed On: | 26 Feb 09 03:5 | 56 By: GTG5 George T. Gerczak 805/545-6426 |
| | E ta | 12/20/2008 11:29:01 Daniel E. Hromyak (DEHB) Phone 805/545-4256 Engineering response to request to specify temporary support requirements in ask 7 is provided below as well as precautions for demo work. This evaluation supports demo order 60009709. |
| | pr | Rig adjacent bus duct support with horizontal brace. This is specified as a brudent measure due to the close proximity of work and unknown impact of water on surface. |
| | th | CAUTION: Deluge valve assembly has a small bore pilot pipe that runs hrough adjacent wall. Ensure no movement occurs to prevent damage to this pipe. |
| | 2) | 2) Rig deluge valve assembly with horizontal and vertical bracing. |
| | ba | NOTE 1: For excavation purposes, the bus duct support is 4'-0" in depth; spt. pase is 3' below surface, 3'-0" wide (ref. 438027 Civil foundation plan & 43802 oundation detail). |
| | | NOTE 2: Support for deluge drain & pilot line attached to curb has a broken veld. Ensure this is repaired during restoration. |
| | er of st | B) Regarding demo work, enter from west after curb removal, avoiding north entry where conduits drop. Curb may be removed as noted in step 12 of order op 60009709-10. It provides no structural function and is not part of bus duct spt noted above. Minor jack hammering of curb concrete is considered part step 13 which states that excavation shall be overseen by a competent person |
| | | |

| | cation: 50123 | 2001 | | |
|----------------------|--|---|---|--|
| | | | | Type: EQPR AANS |
| | ription: Fire wat | ter line bre | ak at SU Trans. 2-1. | |
| | Order: 600096 | 83 Fi | re water line break | at SU Trans. 2-1. |
| Task # 13 | SUT21 fire p | ipe t-mod | | |
| Status: TSCC |) | Task Con | npleted | |
| Code Group: DE-E | NG-T | Diablo En | gineering Tasks | |
| Task Code: 0120 | | Mod Req | uest Authorization Su | pport |
| Responsible: User | Responsible | ELG1 | Erban L. Green | 805/545-6524 |
| Work Ctr: EIF-0 | 07 | Green Er | ban - ELG1 | |
| Created On: 22 De | | | y: DEHB Daniel E. H | Iromyak |
| Planned Start: 24 De | ec 08 Pla | anned Finis | h: 24 Dec 08 | |
| Completed On: 24 De | ec 08 08:14 | В | y: ELG1 Erban L. G | reen 805/545-6524 |
| | SUT11 pending T-mod Replac G2-8 (4 flanged on 438 Pipe is Other c 1) Pipe 2) Mec | and Standb g materials p scope: e 4" cast iron 138068, deta I to 8x4 redu 145 for new on supply lin lesign drawi schematic 7 h pilot line & | y SUT12). Permenant procurement. n pipe located on civil b iil 18). Pipe is 4' in leng cer; top is flanged to de pipe spool and fitting re ne to FP-2-FCV-209, de ngs: l02018, sheet 2 (C-21) | eluge valve to SUT21. for FCV-209 (run G2) 71 (pipe spec. H1 per note 4) |
| | Refer to the TM | o TME 6000 OD install or | 9807 for the engineerin | 61) Phone 805/545-6524 g evaluation. Refer to 60009808 for the TMOD remove order. 60009807 |
| | | | | |

| $1asn\pi$ 1π upg | grade d727186 material |
|---|---|
| Status: TSCO | Task Completed |
| Code Group: DG-EVAL | DC General Evaluations |
| Task Code: EVAL | Evaluate the following (See Long Text) |
| Responsible: User Resp | oonsible HRM1 Hamid R. Mirzaei 805/545-4552 |
| Work Ctr: SMT | Procurement- Tech & Quality |
| Created On: 22 Dec 08 | By: ELG1 Erban L. Green |
| Planned Start: 15 Apr 09 | Planned Finish: 15 Apr 09 |
| Completed On: 15 Apr 09 | 15:12 By: HRM1 Hamid R. Mirzaei 805/545-4552 |
| | 12/22/2008 14:44:28 Erban L. Green (ELG1) Phone 805/545-6524 |
| | The fire protection system is quality class G. This material is quality class Provide the necessary evaluation to enable the use of this material in the temporary repair. 12/22/2008 15:47:00 Hamid R. Mirzaei (HRM1) Phone 805/545-4552 QM notification 30000811 forwarded to QC and warehouse. 04/15/2009 15:05:35 Hamid R. Mirzaei (HRM1) Phone 805/545-4552 work order is complete |
| Status: TSCO | 0050135251 Task Completed |
| Code Group: DG-CR | Condition Report |
| Task Code: OR | Organizational |
| Responsible: User Resp Work Ctr: SMT | onsidie |
| Created On: 22 Dec 08 | Dur D 144 Douorthy L. Joneo |
| Planned Start: 22 Dec 08 | By: BJA1 Beverly J. Jones Planned Finish: 22 Dec 08 |
| | |
| Completed On: 22 Dec 08 | 15:43 By: BJA1 Beverly J. Jones 805/545-4044 |

| U-0 | Notification: 5012 Description: Fire wat Order: 600096 | ter line break at SU | | | QPR AANS ans. 2-1. |
|--------------|---|---|--|---|--|
| Task # | # 16 Material Spe | C | | | |
| - | S: TSCO | Task Completed | | | |
| Code Group | : DG-EVAL | DC General Evaluation | ations | | |
| Task Code | EVAL | Evaluate the follow | ving (See Lo | ong Text) | |
| Responsible | : User Responsible | ELG1 Erban | L. Green | 805/54 | 5-6524 |
| Work Ctr | r: EIF-007 | Green Erban - EL | G1 | | |
| Created Or | n: 23 Dec 08 | By: GTG5 | George T. | Gerczak | |
| Planned Star | t: 23 Dec 08 Pla | anned Finish: 24 Dec | c 08 | | |
| Completed Or | n: 24 Dec 08 10:01 | By: ELG1 | Erban L. G | reen | 805/545-6524 |
| | Deluge piping a per AS this acc 12/24/2 | as pipe spec H1. The s TM A123. A flange wit ceptable. Please advis 2008 09:57:19 Erban L 25-0630 is a A105 carb STM A153 instead of A izing that is applied to ssure boundary capab wo methods would affe iven it by Maintenance fferent parameters are thickness and weight values for these two pa Thickness (mils) 3.0 Class B1 3.4 Class B3 2.2 to this chart are per A t than .25 " thick. The use. S/C D75-0630 do ne data on the chart, the B3. This will only affe e environment. | dwg 663086 spec details f h stock code a. Green (ELC oon steel forg STM A123. the specific p bility of the pa ect the in server important in or mass of z arameters from Weight(oz/sq 1.7 2 1.3 123 the fitting B1 class is w es not indication e A123 galva ect the useful shapes and P 2.3 oz / sq foo | 5 sht 222 id langes 6" a D75-0630 G1) Phone ing. It is g The difference out at the be vice life of the galvar inc. The far m A 123 at foot) g is Grade vorst case te which cl anizing wo service life | dentifies the above ground and under to be galvanized b is galvanized per A153. Is 805/545-6524 alvanized in accordance ences are in the amount of would have no bearing on eginning. The differences the part if no attention hization specifications: ollowing table specifies the nd A 153. 75 for piping and tubing for A 153 and B3 is the lass the flange fits into. buld be midway between e of the flange in the d from A123 the thickness numbers are superior to |

| F | | | | |
|-------------|--|--|--|---|
| U-0 | Notification: 5012 | | Type: DN Work | Type: EQPR AANS |
| | | | | |
| | Order: 60009 | 683 F | Fire water line break | at SU Trans. 2-1. |
| | painte servic | ed and will be ce in this fire | e protected from the envi water piping. | However, this fitting will remain vironment and will give satisfactory acceptable for use in piping run G2. |
| | # 17 ТМОД Mon | | | |
| Statu | us: TSCO | Task Co | | |
| | up: DG-EVAL | DC Gen | eral Evaluations | |
| Task Coc | de: EVAL | Evaluate | e the following (See Lo | ong Text) |
| Responsib | ole: User Responsible | DEHB | Daniel E. Hromyak | < 805/545-4256 |
| Work C | Ctr: EMB-004 | Hromyal | k Dan - DEHB | |
| | Dn: 24 Dec 08 | | By: GTG5 George T. | Gerczak |
| Planned Sta | art: 24 Dec 08 P | lanned Fini | ish: 24 Dec 08 | |
| Completed C | Dn: 24 Dec 08 11:19 | I | By: DEHB Daniel E. H | lromyak 805/545-4256 |
| | Pleas Refer 12/24 FP SE 60009 (unde | se provide mo rence orders l/2008 10:24: E will walkdo 9683-200 pro erground spo is for t-mod to | onitoring plan for TMOD 60009807, 60009808 & :25 Daniel E. Hromyak (I own pipe (1/wk frequency ovides permenant fix by r ool and above ground spo | DEHB) Phone 805/545-4256 |
| Task | | | • | |
| | us: TSCO | Task Co | | |
| | up: DG-EVAL | 1 | eral Evaluations | |
| | de: EVAL | | e the following (See Lo | . , |
| | le: User Responsible | | Christopher T. | 805/545-4581 |
| Work C | | | e Inspection | |
| | Dn: 05 Jan 09 | | By: DEHB Daniel E. H | łromyak |
| Planned Sta | art: 05 Jan 09 P | lanned Fini | ish: 28 Feb 09 | |
| Completed C | Dn: 02 Feb 09 11:44 | [| By: CTB6 Christopher | er T. 805/545-4581 |
| | | | | |

| U-0 | Notification: 50123904 Type: DN Work Type: EQPR AANS |
|-------------|--|
| U- U | Description: Fire water line break at SU Trans. 2-1. |
| | Order: 60009683 Fire water line break at SU Trans. 2-1. |
| | 01/05/2009 14:20:46 Daniel E. Hromyak (DEHB) Phone 805/545-4256 Please perform material analysis of failed spool piece. Pipe is shown on 102018-2 (upstream of FP-1-FCV-209), pipe run G2 on 438145, and 6" cast iron pipe spool on detail 18 of civil drawing 438068. 01/05/2009 15:31:58 Daniel E. Hromyak (DEHB) Phone 805/545-4256 Also, perform failure analysis. Correction: pipe is 4", not 6" dia. 02/02/2009 10:52:21 Christopher T. Beard (CTB6) Phone 805/545-4581 |
| | The below evaluation documents the-as received condition of the failed firewater pipe and has determined the most likely cause of the failure as being graphitization of the cast iron pipe. Pictures are attached to this task as needed. |
| | ISI received the failed fire pipe spool piece for examination. The piece consists of a 4 foot section of 4" diameter cast iron pipe threaded into 2" shouldered flanges on both ends. (Task-18, Attachement-1) |
| | The pipe is lined with mortar/cement on its interior. This is common for cast-iron pipes designed to carry water. The ID of the pipe appeared in good condition with the cement liner showing no indications of chipping or missing material. |
| | The outside diameter of the pipe was covered in a black coating. The above-grade portion of the pipe was also coated in the typical red-paint of DCPP fire piping. This black coating on the underground portion of the pipe had several holidays accompanied by general corrosion and nodule formations. With the exception of the failure site, no significant pitting or through-wall corrosion was observed. |
| | The failure site consists of an approximately 2.75" by 2.75" circular through-wall hole. The hole is larger in diameter on the outer surface of the pipe and tapers slightly as it nears the cement liner. The hole is located approximately 1 foot below the paint line indicating grade level. (Task-18, Attachement-2) |
| | The surface of the pipe around the failure site looked fairly uniform with no evidence of deformation, smeared metal, gouging, etc. |
| | The pipe was spark tested and had a spark characteristic of cast iron. A small magnet is strongly attracted to the pipe. A piece of the pipe wall near the opening was removed. It was brittle and broke easily. It was noted that the exposed interior of the pipe wall around the hole did |
| | not attract a small magnet. This location also did not appear to develop significant oxide as other exposed portions of the pipe. The use of a small magnet also indicated other regions near the failure site |

| U-0 | Notification: 50123904Type: DNWork Type: EQPRAANSDescription: Fire water line break at SU Trans. 2-1.Order: 60009683Fire water line break at SU Trans. 2-1. |
|------------|--|
| | which were not as attracted to the magnet as the bulk of the cast iron. . The pipe was sectioned to expose the wall cross section of the areas with limited magnetic attraction. These cross sections revealed areas where the cast iron pipe wall had been reduced to a brittle matrix (Task-18, Attachement-3). This is typical of selective leaching or graphitic corrosion in gray cast iron (Ref: -1). In graphitic corrosion, the iron, which is anodic to graphite, is selectively corroded away leaving behind a brittle structure composed primarily of graphite. This brittle structure does not retain any of the strength or ductility found in the original pipe wall. It appears that this de-alloyed region became large enough to consume the entire thickness of the pipe wall. At this point, only the cement liner and brittle graphite were left to retain the internal pressure of the fire water. Either through a slow leak which grew to wash out the brittle wall or an impact event (pressure pulse), this area failed catastrophically resulting in a large through-wall hole. . <l< th=""></l<> |
| | |

DIABLO CANYON POWER PLANT INTERDEPARTMENTAL ADMINISTRATIVE PROCEDURE

TS1.ID11 Rev. 0 Page 1 of 9

Selective Leaching Degradation Program

INFO ONLY

Effective Date

QUALITY RELATED

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| 7. | REFERENCES | .8 |
| ATTA | CHMENTS: | |
| 1. | Sample Size | .9 |

1. <u>SCOPE</u>

- 1.1 This procedure describes the responsibilities of various groups for implementing Diablo Canyon's Selective Leaching of Materials Aging Management Program.
- 1.2 The DCPP Selective Leaching of Materials Aging Management Program manages the loss of material due to selective leaching for brass (copper alloy >15% zinc), gray cast iron, and aluminum-bronze (copper alloy > 8% aluminum) components exposed to raw water, closed-cycle cooling water, secondary water, demineralized water, potable water, plant indoor air, and ventilation atmosphere. Components susceptible to selective leaching are found in the following systems:
 - 06 Auxiliary Steam System
- 18 Fire Protection
- 08 Chemical and Volume Control
- 09 Safety Injection
- 15 Service Cooling Water
- 16 Makeup Water
- 17 Saltwater/ Chlorination

- 19 Liquid Radwaste
- 23A Containment HVAC System
- 23B Auxiliary Building HVAC System
- 24 Gaseous Radwaste
- 25 Compressed Air System

- 1.3 The Selective Leaching Degradation Program is being implemented as part of License Renewal. Inspections/engineering evaluations are scheduled to occur no earlier than 2015 and no later than 2025.
- 1.4 This program may be discontinued if one time inspections validate the absence of selective leaching in susceptible components within scope of license renewal.

2. DISCUSSION

- 2.1 The purpose of these inspections and examinations are to ensure the integrity of the components made of gray cast iron, brass (copper alloy > 15% zinc), and aluminum-bronze (copper alloy >8% aluminum) with prolonged exposure to aqueous environments that may lead to selective leaching of one of the metal components.
- 2.2 This procedure provides instructions to perform one-time visual or mechanical examinations of selected components that may be susceptible to selective leaching to determine whether or not loss-of-materials due to selective leaching is occurring, and whether or not the process affects the ability of the components to perform their intended function for the period of extended operation.
- 2.3 The one-time inspection occurs within the ten year period prior to the period of extended operation.

3. **DEFINITIONS**

- 3.1 10-Years Prior to PEO: The 10-year period prior to the expiration of the current operating licenses (Unit 1: 2014 through 2024; Unit 2: 2015 through 2025).
- 3.2 Closed-Cycle Cooling: Water for component cooling that is treated and monitored for quality under the Closed-Cycle Cooling Water System Aging Management Program.
- 3.3 Demineralized Water: Demineralized or chemically purified water which is the source for water in all clean systems such as the primary or secondary coolant systems. Demineralized water is monitored for quality under the Water Chemistry Aging Management Program and depending on the system; demineralized water may require additional processing.
- 3.4 Intended Function: Systems, structures, or components within the scope of license renewal that perform at least one of these functions:
 - 3.4.1 Safety-related systems, structures, and components which are those relied upon to remain functional during and following design-basis events (as defined in 10 CFR 50.49 (b)(1)) to ensure any of the following functions:
 - a. The integrity of the reactor coolant pressure boundary.
 - b. The capability to shut down the reactor and maintain it in a safe shutdown condition.
 - c. The capability to prevent or mitigate the consequences of accidents which could result in potential offsite exposures comparable to those referred to in \S 50.34(a)(1), \S 50.67(b)(2), or \S 100.11 of this chapter, as applicable.

- 3.4.2 All non-safety-related systems, structures, and components whose failure could prevent satisfactory accomplishment of any of the functions identified in 10 CFR 54.4 paragraphs (a)(1)(i), (ii), or (iii).
- 3.2.3 All systems, structures, and components relied on in safety analyses or plant evaluations to perform a function that demonstrates compliance with the Commission's regulations for fire protection (10 CFR 50.48), environmental qualification (10 CFR 50.49), pressurized thermal shock (10 CFR 50.61), anticipated transients without scram (10 CFR 50.62), and station blackout (10 CFR 50.63).
- 3.5 Period of Extended Operation (PEO): The license renewal period. This time period starts after the expiration of the current operating licenses (Unit 1 in 2024; Unit 2 in 2025) and ends 20 years after the renewed licenses begin (Unit 1 in 2044; Unit 2 in 2045).
- 3.6 Plant Indoor Air: Indoor air on systems with temperatures higher than the dew point, i.e., condensation can occur but only rarely, equipment surfaces are normally dry.
- 3.7 Potable Water: Water treated for drinking or other personal uses.
- 3.8 Raw Water: Untreated fresh, salt, or ground water. Floor drains and containment and auxiliary building sumps may be exposed to a variety of untreated water that is thus classified as raw water, for the determination of aging effects. Raw water may contain contaminants, including oil and boric acid, depending on the location, as well as originally treated water that is not monitored by a chemistry program.
- 3.9 Secondary Water: Steam generator secondary systems water (including condensate, feedwater and steam) that is treated and monitored for quality under the Secondary Water Chemistry Aging Management Program and controlled for protection of steam generators.
- 3.10 Selective Leaching: The preferential removal of one of the alloying elements from a material, which leads to the enrichment of the remaining alloying elements with no noticeable dimension change.
- 3.11 Ventilation Atmosphere: The environment to which the surface of components inside HVAC systems is exposed (e.g., heat exchanger tubes, etc.). Also defined as atmospheric, room, or building air for ventilation systems with temperatures higher than the dew point, i.e. condensation can occur but only rarely, equipment surfaces are normally dry. Condensation on the surfaces of systems with temperatures below the dew point is considered raw water due to the potential for surface contamination.

4. **RESPONSIBILITIES**

- 4.1 Selective Leaching Program Owner is responsible for:
 - 4.1.1 Implementing the program.
 - 4.1.2 Evaluating inspection results.
 - 4.1.3 Determining scope expansion and re-inspection frequency if required.
- 4.2 Engineering is responsible for providing acceptance criteria prior to the performance of inspections.
- 4.3 In-service inspection is responsible for developing and performing NDE on selected components.
- 4.4 Maintenance is responsible for performing maintenance activities necessary to provide access to or removal of components requiring inspection.
- 4.5 Maintenance planning is responsible for creating the necessary order/operations at the request of engineering to perform inspections on selected components.
- 4.6 Work control/scheduling is responsible for coordinating inspections with other maintenance activities if available.

5. INSTRUCTIONS

- 5.1 Scope Identification
 - 5.1.1 The scope of selective leaching susceptibility applies to:
 - Gray cast iron
 - Brass (copper-zinc alloy >15% zinc)
 - Aluminum-bronze (copper alloy >8% aluminum)
 - Components in wetted environments.
 - a. These components include piping, pump casings, sprinkler heads, valve bodies, and heat exchanger components.
 - b. Research to date has not identified a limiting condition regarding material or environment for selective leaching; therefore, components of all susceptible materials in all wetted environments should be used in the sample population.

5.2 Sample Size

5.2.1 Inspection samples should be chosen from each system population with the system/component/material/environment list found in Attachment 1.

5.3 Inspection Requirements

- 5.3.1 Aging Effects Detection
 - a. The selective leaching process involves the preferential removal of one of the alloying elements from the material, which leads to the enrichment of the remaining alloying elements. Examples of the process include:
 - Dezincification (loss of zinc from brass)
 - De-alloying (loss of aluminum from aluminum-bronze)
 - Graphitization (removal of iron from gray cast iron)
- 5.3.2 Visual or mechanical inspections should be conducted for each system within scope of this procedure.
- 5.3.3 Inspection Techniques
 - a. Selective leaching inspections include initial visual and mechanical inspections of selected components within each of the susceptible system, material, or environment combinations to detect component degradation prior to loss of their intended functions.
 - b. When visual or mechanical inspections reveal potential graphitization, dezincification, or de-alloying, the component may be subjected to an engineering evaluation that may include microscopic examination
- 5.3.4 Visual or Mechanical Inspections

NOTE: Selective leaching generally does not cause changes in dimensions and is difficult to detect.

- a. Visual or mechanical inspections may be used for providing preliminary indications of:
 - Dezincification in brass (copper alloy >15% zinc) components.
 - Indications of de-alloying in aluminum-bronze (copper alloy >8% aluminum) components.
 - Indications of graphitization in gray cast iron components.
- b. Appropriate visual or mechanical techniques should be utilized to detect selective leaching based on the line of the selected piping/component.
- c. Visual indications of graphitization, dezincification, or de-alloying may include rust, pores/voids, existence of graphite, or superficial corrosion.
- d. Mechanical indications include flaking, weakness or the collapsing of the material when subject to tapping or scraping by a suitable metal probe.

5.3.5 Microstructure Examination

- a. A microstructure examination of a component should be performed at the direction of engineering when indications of dezincification, de-alloying, or graphitization are found initially.
- b. The examination should focus on the inside surfaces of the selected set of components or on the outside surfaces for buried components exposed to groundwater.
- c. Suspect components shall be identified by engineering and shall be removed from service by Maintenance and sent to an outside laboratory for analysis.
- d. Subsequent engineering evaluations shall be performed following receipt of the specific component microstructure exam results.

5.4 <u>Acceptance Criteria</u>

- 5.4.1 Initial visual or mechanical indications of graphitization, dezincification, and dealuminification shall be documented in a notification to allow for an engineering evaluation.
- 5.4.2 Components which violate established acceptance criteria specific to the component shall be considered unacceptable, unless further engineering evaluation documents acceptability.

5.5 Engineering Evaluation

- 5.5.1 The engineering evaluation should evaluate results of the initial inspection to determine whether or not selective leaching has occurred.
- 5.5.2 If the results of the initial inspection are inconclusive, the component may need more extensive NDE or removed from service for metallurgical examination of the suspect area.
- 5.5.3 Based on the results from the initial inspection or metallurgical examination engineering should evaluate the remaining material thickness against established acceptance criteria.
- 5.5.4 Components that are experiencing selective leaching and are found acceptable by engineering should have either of the following documented:
 - a. Document the basis for component acceptability to the end of period of extended operation.
 - b. Document the inspection frequency or specify replacement date to ensure component minimum wall thickness is not violated while in service.

- 5.5.5 Components that are experiencing selective leaching and were replaced as a result of an unacceptable condition or the need for metallurgical evaluation should have either of the following documented:
 - a. Document the basis for component acceptability to the end of the period of extended operation.
 - b. Document the inspection frequency or specify replacement date to ensure component minimum wall thickness is not violated while in service.

5.6 <u>Scope Expansion</u>

- 5.6.1 Expanded visual or mechanical inspections shall occur if selective leaching is identified.
- 5.6.2 Scope expansion may occur in the outage selective leaching was identified or following outages based on the severity of the occurrence. The selective leaching program owner should determine timeliness of the scope expansion.
- 5.6.3 Sample sizes should continue to be expanded until all occurrences of selective leaching have been identified or the entire population of that system, material, and environment combination has been examined.

6. <u>RECORDS</u>

None

7. <u>REFERENCES</u>

- 7.1 NUREG-1801, "Generic Aging Lessons Learned," Nuclear Regulatory Commission, Rev. 1, September 2005
- 7.2 XI.M33, "License Renewal Feasibility Study Evaluation Report Selective Leaching," Rev. 2
- 7.3 PCD

*** UNCONTROLLED DOCUMENT – DO NOT USE TO PERFORM WORK or ISSUE FOR USE *** TS1.ID11 R0 Page 9 of 9

Sample Size

Attachment 1: Page 1 of 1

| | | Number of Components | Sample Size | Component Total | Sample Component Total |
|-----|---|-------------------------|------------------|--------------------|------------------------------|
| 1. | Cast Iron (Gray Cast Iron)/Closed Cyc | le Cooling Water | | 2 | 1 |
| | a. Service Cooling Water System | 2 | 1 | | |
| 2. | Cast Iron (Gray Cast Iron)/Demineraliz | ed Water | | 17 | 2 |
| | a. Makeup Water System | 17 | 2 (1 per unit) | | |
| 3. | Cast Iron (Gray Cast Iron)/Raw Water | | | 65 | 6 |
| | a. Fire Protection System | 56 | 4 (2 per unit) | | |
| | b. Makeup Water System | 9 | 2 (1 per unit) | | |
| 4. | Cast Iron (Gray Cast Iron)/Secondary Water | | | | |
| | a. Containment HVAC System | 2 | 2 1 per unit) | 2 | 1 |
| 5. | Copper Alloy (> 15% Zinc)/Closed Cyc | le Cooling Water | | 41 | 7 |
| | a. CVCS | 20 | 2 (1 per unit) | | |
| | b. Safety Injection System | 4 | 2 (1 per unit) | | |
| | c. Containment HVAC System | 2 | 1 | | |
| | d. Auxiliary Building HVAC System | 15 | 2 (1 per unit) | | |
| 6. | Copper Alloy (> 15% Zinc)/Demineralized Water | | | 9 | 4 |
| | a. CVCS | 5 | 2 (1 per unit) | | |
| | b. Liquid Radwaste System | 3 | 1 | | |
| | c. Auxiliary Building HVAC System | 1 | 1 | | |
| 7. | Copper Alloy (> 15% Zinc)/Raw Water | | | 18 | 6 |
| | a. Auxiliary Steam System | 4 | 1 | | |
| | b. Fire Protection System | 7 | 2 (1 per unit) | | |
| | c. Liquid Radwaste System | 1 | 1 | | |
| | d. Gaseous Radwaste System | 6 | 2 (1 per unit | | |
| 8. | Copper Alloy (> 15% Zinc)/Plant Indoo | r Air | | 62 | 6 |
| | a. Gaseous Radwaste System | 6 | 2 (1 per unit) | | |
| | b. Compressed Air System | 56 | 4 (2 per unit) | | |
| 9. | Copper Alloy (> 15% Zinc)/Potable Wa | ater | | 3 | 1 |
| | a. Auxiliary Building HVAC System | 3 | 1 | | |
| 10. | Copper Alloy (Aluminum > 8%)/Raw W | /ater | | 28 | 2 |
| | a. Saltwater/Chlorination System | 28 | 2 (1 per unit) | | |
| | Total Number of Components | | | | |
| | Total | Number of Compor | nents to Inspect | | 37 |

| A/R TYPE : AT OEA S REQST GROUP: NOSR D | | 04SEP96 |
|--|---------------|---------------------------|
| A/R SUMMARY: EVALUATION OF NRC IEN 94-59, AL-BRONZE | DEALLOYING | |
| | | |
| * | BAL2 | <u>095EP94</u> |
| ISEGLOG 94-331 | | <u>095EP94</u> |
| * | | <u>095EP94</u> |
| THIS AR IS FOR TRACKING THE EVALUATION OF IEN 94- | | 09SEP94 |
| "ACCELERATED DEALLOYING OF CAST ALUMINUM BRONZE V | | <u>095EP94</u> |
| CAUSED BY MICROBIOLOGICALLY INDUCED CORROSION." | | <u>095EP94</u> |
| | | <u>095EP94</u> |
| SURRY NOTED VARYING DEGREES OF CORROSION ON TWENT | | <u>09SEP94</u> |
| JAMESBURY CAST ALUMINUM-BRONZE BALL VALVES (1.5 & MAXIMUM OBSERVED LEAKAGE WAS A FEW DROPS PER HOUR | | <u>09SEP94</u> 09SEP94 |
| WAS THROUGH THE VALVE BODY. | - | <u>095EP94</u> 09SEP94 |
| WAS INROOGN THE VALVE BODI. | | 09SEP94 |
| THE ALUMINUM-RICH PHASES HAD BEEN LEACHED OUT. I | | |
| CORROSION CONTAINED A LARGE PERCENTAGE OF ALUMINU | | 09SEP94 |
| LOCATION OF THE LEAK APPEARED TO COINCIDE WITH A | BAL2 | |
| CORROSION NODULE. BACTERIAL ANALYSIS OF THE CORR | | |
| NODULE REVEALED SEVERAL TYPES, E.G., SULFATE-REDU | | |
| ACID-PRODUCING. SURRY CONCLUDED THAT ONCE A NODU | | 09SEP94 |
| FORMED BY THE BACTERIA, AN ACIDIC CONDITON WAS CF | | 09SEP94 |
| UNDER THE NODULE AND THIS RESULTED IN AN ACCELERA | TED RATE BAL2 | 09SEP94 |
| OF CORROSION / DEALLOYING OF THE VALVE MATERIAL. | BAL2 | 09SEP94 |
| <u>•</u> | BAL2 | <u>095EP94</u> |
| <u>VALVES HAD BEEN IN SERVICE FOR SEVEN YEARS IN A E</u> | | <u>095EP94</u> |
| WATER SYSTEM. FLOW VELOCITY CAN BE AS LOW AS 2 T | | <u>09SEP94</u> |
| FT/SEC. FLOW BELOW 5 FT/SEC LENDS TO THE POTENTI | | <u>095EP94</u> |
| FOULING WHICH CAN PROMOTE FORMATION OF MICROBIOLC | | 09SEP94 |
| INDUCED CORROSION NODULES. | | <u>095EP94</u> |
| | | <u>09SEP94</u> |
| VALVES WERE MADE OF CAST ALUMINUM-BRONZE ALLOY C9 | | <u>095EP94</u> |
| CHEMICAL ANALYSIS SHOWED COMPOSITION MET ASTM SPE | | <u>09SEP94</u> |
| <u>B-148 CONTAINS NOMINAL 11-PERCENT ALUMINUM. AL-E</u> ALLOYS WITH MORE THAN 9 PERCENT REQUIRE HEAT TREA | BRONZE BAL2 | |
| FOR OPTIMUM CORROSION RESISTANCE. ASTM B-148 DOE | | |
| REQUIRE HEAT TREATMENT, THUS AS-CAST MATERIAL ISN | | |
| OPTIMAL TO RESIST CORROSION AND OFTEN OCCURS BY D | | |
| OTTIMAL TO RESIST CONCOSTON AND OTTEN OCCORS BT L | BALL2 | |
| · DEALLOYING OF ALUMINUM-BRONZE VALVE BODY REDUCES | | |
| TENSILE STRENGTH AND THE TOUGHNESS OF THE MATERIA | | |
| INCREASES THE SUSCEPTIBILITY TO TRANSIENT AND IMP | | |
| LOADING. | BAL2 | |
| **** | BAL2 | |
| THIS WAS PREVIOUSLY REPORTED VIA INPO NETWORK OE- | | 09SEP94 |
| NOV 1993. | BAL2 | 09SEP94 |
| * | BAL2 | 09SEP94 |
| INITIAL RAMIS SEARCH OF PIMS COMPONENT DATA FOUND | | |
| FOLLOWING AL-BRONZE B-148, "Q" VALVE BODIES: | | <u>095EP94</u> |
| • | BAL2 | <u>09SEP94</u> |

| PG | AND E *** ACTION REQUEST *** A/R NUMBER : A0350059 A/R AGE: 00726 A/R STATUS A/R TYPE : AT OEA STATUS DAT REQST GROUP: NOSR DATE REQUEST SUBGROUP : PRINT DATE PRINT DATE PRINT DATE | FE : IRED: E : | PAGE: 0 <u>HISTRY</u> 04SEP96 31DEC96 280CT10 2514 | 2 |
|----|--|----------------------|---|---|
| | REQST ID : <u>BAL2</u> CONTACT: <u>MIKE MC COY</u> | AT: | <u>3514</u> | _ |
| | | | | - |
| | SW-1-170 ASW PP 1-1 DISCH VACUUM RELIEF CHECK VLV (L/H) | BAL2 | 09SEP94 | |
| | SW-2-170 ASW PP 2-1 " " " " " | BAL2 | 09SEP94 | |
| | SW-1-185 ASW 1-1 HDR PS-185A | BAL2 | 09SEP94 | ſ |
| | <u>SW-2-185</u> ASW 2-1 " " | BAL2 | <u>095EP94</u> | |
| | <u>SW-1-186</u> ASW 1-2 HDR PS-186A | BAL2 | <u>095EP94</u> | |
| | <u>SW-2-186</u> ASW 2-2 " " | BAL2 | <u>095EP94</u> | |
| | SW-1-300 ASW PP 1-2 DISCH LINE VACUUM RELIEF ISO VLV | BAL2 | <u>095EP94</u> | |
| | <u>SW-2-300</u> ASW PP 2-2 " " " " " | BAL2 | <u>09SEP94</u> | |
| | SW-1-301 ASW PP 1-2 DISCH VACUUM RELIEF CHECK VLV (L/H) | BAL2 | <u>09SEP94</u> | |
| | <u>SW-Z-SUI ASW PP Z-Z (K/II)</u> | BAL2 | <u>09SEP94</u> 09SEP94 | |
| | SW-1-302ASWPP1-2DISCHLINEVACUUMRELIEFISOVLVSW-2-302ASWPP2-2""""" | BAL2 BAL2 | <u>095EP94</u> 09SEP94 | |
| | SW-2-302 ASW PP 2-2 SW-1-303 ASW PP 1-2 DISCH VACUUM RELIEF CHECK VLV (L/H) | BAL2 | <u>095EF94</u> 09SEP94 | |
| | SW-2-303 ASW PP 2-2 " " " " (R/H) | BAL2 | 09SEP94 | |
| | SW-1-33 ASW PP 1-1 DISCH LINE VACUUM RELIEF ISO VLV | BAL2 | 09SEP94 | |
| | SW-2-33 ASW PP 2-1 " " " " | BAL2 | 09SEP94 | |
| | SW-1-34 ASW PP 1-1 DISCH VACUUM RELIEF CHECK VALVE (R/H) | BAL2 | 09SEP94 | |
| | SW-2-34 ASW PP 2-1 " " " (L/H) | BAL2 | 09SEP94 | ſ |
| | SW-1-452 ASW PP 1-1 DISCH PI-452 | BAL2 | 09SEP94 | ſ |
| | <u>SW-2-452 ASW PP 2-1 " "</u> | BAL2 | <u>095EP94</u> | ſ |
| | SW-1-71 ASW PP 1-1 DISCH LINE VACUUM RELIEF ISO VLV | BAL2 | <u>095EP94</u> | ſ |
| | <u>SW-2-450 ASW PP 2-1 " " " " "</u> | BAL2 | <u>095EP94</u> | ſ |
| | SW-1-864 ASW PP 1-1 DISCH FX 2 ISO | BAL2 | <u>095EP94</u> | ſ |
| | SW-Z-004 ASW PP Z-1 | BAL2 | <u>09SEP94</u> | |
| | <u>SW-1-865 ASW PP 1-2 DISCH FX 8 ISO</u> | BAL2 | <u>095EP94</u> | |
| | <u>SW-2-865 ASW PP 2-2 " " "</u> SW-1-454 ASW PP 1-2 DISCH PI-454 | BAL2 BAL2 | <u>09SEP94</u> 09SEP94 | |
| | SW-1-454 ASW PP 1-2 DISCH P1-454 SW-2-201 ASW PP 2-2 DISCH CHECK VALVE | BAL2 | <u>095EP94</u> 09SEP94 | |
| | <u>5W-Z-ZOI ASW FF Z-Z DISCH CHECK VALVE</u> | | <u>095EP94</u> 09SEP94 | |
| | NOTE: LIST MAY NOT BE COMPLETE SINCE SEARCH LOOKS IN TECH | | | |
| | NOTES FOR "BODY". IF "BODY" ISN'T IN TECH NOTES, OR IF | | 09SEP94 | |
| | TECH NOTES HAVEN'T BEEN INCLUDED, SEARCH WILL BE | | 09SEP94 | |
| | INCOMPLETE. | BAL2 | 09SEP94 | ſ |
| | *** | BAL2 | 09SEP94 | |
| | DISCUSSED WITH B. LOCONTE, NO IMMEDIATE DCPP IMPACT HAS | JEF3 | <u>265EP94</u> | ſ |
| | BEEN IDENTIFIED. NO QE REQUIRED TO EVALUATE INDUSTRY | | <u>265EP94</u> | |
| | OCCURRENCE. | | <u>265EP94</u> | |
| | · | | <u>01FEB96</u> | |
| | PER 1996 ISEG GOALS, ONE HALF OF THE OUTSTANDING | | <u>01FEB96</u> | |
| | 1994 ISEGLOGS IN "EVAL" STATUS WILL BE RESOLVED | | <u>01FEB96</u> | |
| | (EVALUATION COMPLETE) BY 12/31/96. AS SUCH, THE | | <u>01FEB96</u> | |
| | DUE DATE FOR THIS AR IS BEING UPDATED (CHANGED) FROM 09/09/95 TO 12/31/96. | | <u>01FEB96</u> 01FEB96 | ſ |
| | <u>11011 07/07/75 to t2/51/70.</u> | | 01FEB96 | ſ |
| | THE FOLLOWING CLOSURE PACKAGE WAS DEVELOPED TO DOCUMENT | | 28AUG96 | |
| | OUR RESPONSE TO IEN 94-59 & OE-6317: | | 28AUG96 | ſ |
| | • | | 28AUG96 | |
| | ISSUE: A NUMBER OF SERVICE WATER JAMESBURY CAST | | 28AUG96 | |
| | ALUMINUM-BRONZE BALL VALVES (1.5 TO 2 INCH) WERE SEEPING | | 28AUG96 | |
| | | | | |

| PG AND E *** ACTION REQUEST *** A/R NUMBER : A0350059 A/R AGE: 00726 A/R STAT A/R TYPE : AT OEA STATUS DATE REQ REQST GROUP: NOSR DATE REQ | ATE : | | 03 |
|--|-------|---------------------------|----|
| SUBGROUP : PRINT DA | | | |
| REQST ID : <u>BAL2</u> CONTACT: <u>MIKE MC COY</u> | _ AT: | <u>3514</u> | |
| | | | == |
| WATER THROUGH THE VALVE BODY AT SURRY POWER STATION. | мемс | 28AUG96 | |
| THE CAUSE WAS DETERMINED TO BE DEALLOYING OF THE VALVE | | | |
| BODY MATERIALS INITIATED BY MICROBIOLOGICAL INDUCED | | 28AUG96 | |
| CORROSION (MIC) CAUSED BY A NUMBER OF FACTORS, | | 28AUG96 | |
| INCLUDING: | | 28AUG96 | |
| | | 28AUG96 | |
| 1) WARM, LOW FLOW OR STAGNANT WATER CONDITIONS | | 28AUG96 | |
| 2) BRACKISH WATER | | 28AUG96 | |
| 3) THE USE OF ALUMINUM-BRONZE ALLOY ASTM B148 | MEM6 | 28AUG96 | |
| TYPE 954 WITHOUT HEAT TREATMENT FOR OPTIMUM | | 28AUG96 | |
| CORROSION RESISTANCE. | | 28AUG96 | |
| | | <u> 28AUG96</u> | |
| THE VALVES HAD BEEN INSTALLED FOR 7 YEARS. | | 28AUG96 | |
| • | | <u>28AUG96</u> | |
| RESPONSE: AT DCPP WE HAVE A NUMBER OF ALUMINUM-BRONZE | | 28AUG96 | |
| VALVES USED IN SALTWATER SYSTEMS. SEE ISEGLOG 94-331 | | 28AUG96 | |
| RAMIS ANALYSIS FOR A LISTING OF VALVES WITH ALUMINUM- | | 28AUG96 | |
| BRONZE VALVE BODIES. DISCUSSIONS WITH KERSI DALAL | | 28AUG96 | |
| (PIPING & MECHANICAL COMPONENTS) AND RAVI CHHATRE (TES- | | 28AUG96 | |
| MIC) INDICATE THAT OUR EXPERIENCE WITH THESE VALVES IN OVER 10 YEARS OF OPERATION HAS NOT INDICATED A PROBLEM | | <u>28AUG96</u> 28AUG96 | |
| OR CONCERN WITH MIC. THIS MAY BE REASONED FROM THE FACT | | | |
| THAT WE BIOCIDE OUR CLOSED SALTWATER SYSTEMS. THE ASW | | 28AUG96 | |
| SYSTEM IS CONTINUOUSLY CHLORINATED AND THREE CLOSED | | 28AUG96 | |
| COOLING WATER SYSTEMS (CCW, ICW AND SCW) HAVE BEEN THE | | 28AUG96 | |
| SUBJECT OF A MIC STUDY BY TES. CURRENTLY 8 CLOSED | | 28AUG96 | |
| COOLING WATER SYSTEMS ARE BEING SURVEYED BY TES | MEM6 | 28AUG96 | |
| CONCERNING THE PRESENCE OF MIC. HENCE, ACTIONS ARE | MEM6 | 28AUG96 | |
| ONGOING TO TRACK AND CONTINUOUSLY SURVEY THE GROWTH OF | MEM6 | 28AUG96 | |
| MIC IN OUR COOLING WATER SYSTEMS. | MEM6 | 28AUG96 | |
| • | | <u>28AUG96</u> | |
| SINCE THE AUX. SALTWATER SYSTEM (ASW) IS VERY SIMILAR TO | | <u>28AUG96</u> | |
| THE SYSTEM IDENTIFIED AT SURRY, I EVALUATED THE VALVES | | 28AUG96 | |
| IN THAT SYSTEM TO IDENTIFY VALVES THAT MAY BE | | 28AUG96 | |
| SUSCEPTIBLE TO MIC INDUCED CORROSION. THE FOLLOWING | | 28AUG96 | |
| VALVES ARE ALUMINUM-BRONZE (AL-BZ) INSTALLED IN LOW FLOW | | 28AUG96 | |
| <u>OR NO FLOW AREAS OF THE ASW SYSTEM:</u> | | <u>28AUG96</u> 28AUG96 | |
| <u> </u> | | 28AUG96 | |
| <u> </u> | | 28AUG96 | |
| OF THESE VALVES, IT IS NOTED THAT 1-301, 303, 170 & 34 | | 28AUG96 | |
| ARE CHECK VALVES THAT ARE PERIODICALLY INSPECTED FOR | | 28AUG96 | |
| SIGNS OF CORROSION AND FREEDOM OF OPERATION. | | 28AUG96 | |
| • | | 28AUG96 | |
| SEE ISEGLOG 94-331 TABLE ENTITLED "AUX. SALTWATER SYSTEM | | 28AUG96 | |
| AL-BZ VALVE EVALUATION," FOR BOTH UNITS. THIS DATA, | MEM6 | 28AUG96 | |
| GLEANED FROM PIMS, INDICATES THAT THESE VALVES WERE | MEM6 | 28AUG96 | |
| INSTALLED IN 1984 AND HAVE BEEN IN SERVICE FOR 11 OR 12 | | 28AUG96 | |
| YEARS. TO DATE, WITH THE EXCEPTION OF 1(2)-303, THESE | MEM6 | 28AUG96 | |

| PG | AND E *** ACTION REQUEST *** A/R NUMBER : A0350059 A/R AGE: 00726 A/R STATUS A/R TYPE : AT OEA STATUS DAT REQST GROUP: NOSR DATE REQUI SUBGROUP : PRINT DATE | E: RED: | 04SEP96 31DEC96 280CT10 | 04 |
|------------------|--|----------------------------------|---|----------------|
| | REQST ID : <u>BAL2</u> CONTACT: <u>MIKE MC COY</u> | AT: | <u>3514</u> | |
| === | | | | === |
| | VALVES HAVE HAD SATISFACTORY PERFORMANCE WITH RESPECT TO | MEM6 | 28AUG96 | |
| | VALVE BODY CORROSION. VALVE 1-303 WAS REPLACED IN 1989 | MEM6 | 28AUG96 | |
| | DUE TO EXCESSIVE VALVE BODY CORROSION. VALVE 2-303 WAS | MEM6 | 28AUG96 | |
| | REPLACED IN 1990 DUE TO A BENT VALVE STEM. IT WAS NOTED | MEM6 | 28AUG96 | |
| | AT THAT TIME THAT SOME CORROSION WAS PRESENT WITH | MEM6 | 28AUG96 | |
| | NODULES, INDICATING POSSIBLE MIC INDUCED ACTIVITY. | MEM6 | <u>28AUG96</u> | |
| | • | MEM6 | 28AUG96 | |
| | CONCLUSION: | MEM6 | 28AUG96 | |
| | <u>.</u> | MEM6 | 28AUG96 | |
| | OF THE 10 VALVES STUDIED, ONLY 1 HAS HAD PROBLEMS WITH | | 28AUG96 | |
| | CORROSION THAT MAY BE ATTRIBUTED TO MIC. SINCE THESE | | <u>28AUG96</u> | |
| | VALVES ARE PRESENT WITHIN A SYSTEM THAT HAS PERIODIC | | <u>28AUG96</u> | |
| | INSPECTIONS OF CERTAIN KEY AFFECTED VALVES AND SINCE NO | | <u>28AUG96</u> | |
| | DEFINITE CORROSION PROBLEMS TO DATE CAN BE ATTRIBUTED TO | | <u>28AUG96</u> | |
| | MIC, IT IS CONCLUDED THAT THE PRESENT PROGRAM OF | | 28AUG96 | |
| | BIOCIDE, INSPECTION, AND CLEANING IS MAINTAINING OUR | | 28AUG96 | |
| | VALVES OPERABLE WHETHER OR NOT MIC IS PRESENT. IT IS | | 28AUG96 | |
| | RECOMMENDED THAT TES CONTINUE THEIR SURVEY OF CORROSION | | 28AUG96 | |
| | PROBLEMS IN COOLING WATER SYSTEMS. THIS EVALUATION OF | | 28AUG96 | |
| | THE IE INFORMATION NOTICE WILL BE DISSEMINATED TO THE | | 28AUG96 | |
| | SYSTEM ENGINEER, THE VALVE ENGINEER, AND TES FOR THEIR INFORMATION AND FURTHER CONSIDERATION IN THE EVENT THAT | | <u>28AUG96</u> 28AUG96 | |
| | INFORMATION AND FURTHER CONSIDERATION IN THE EVENT THAT FUTURE INSPECTIONS DISCOVER ACCELERATED CORROSION CAUSED | | 28AUG96 | |
| | BY MIC. NO FURTHER ACTIONS ARE REQUIRED. | | 28AUG96 | |
| | DI MIC. NO FORTHER ACTIONS ARE REQUIRED. | | 28AUG96 | |
| | THE SUBJECT CLOSURE PACKAGE WAS CONCURRED WITH BY BOB | | 28AUG96 | |
| | | | 28AUG96 | |
| | AND, FINALLY SHEILA ALLEN (BOP DIRECTOR - ACTING). NO | | 28AUG96 | |
| | FURTHER ACTIONS ARE REQUIRED AND THIS A/R MAY BE CLOSED. | | | |
| | JC: <u>F</u> FEG: <u>0 17 1P1</u> COMP ID: FEG DESC : <u>ASW PP # 1</u> AR TAG: <u>NO EQUIP TAG</u> | | | |
| | HAVE TAG CONSIDERATIONS BEEN ADDRESSED? : _ VERIFIED BY | | | |
| I I F F | POTENTIALLY REPORTABLE?: N COMPONENT UNAVAILABLE: N PROBLEM CATEGORY : LEVEL OF DEGRADATION : REQUIRED DUE DATE : <u>31DEC96</u> SCHEDULE CATEGORY : RESPONSIBLE GROUP : <u>NOSR</u> SUBGROUP: ID: | SFM N PRIOF CTD: COY, N | NOTIFIED : RITY : <u>4 00</u> <u>X</u> WMI: <u>M1</u> MIKE | <u>N</u> 00 |
| | QA CLASS Q N/A QUALITY PROB: N JEF3 26SEP94 QP RESP ORG N/A QP DUE DATE: N/A IND VERIFIER: DATE: DATE: | | | |

| PG AND E *** ACTION A/R NUMBER : A0350059 A/R AGE: 00 A/R TYPE : AT OEA AR AGE: 00 REQST GROUP: NOSR SUBGROUP : REQST ID : BAL2 CONTACT: MIK | 7 <u>26</u> | STATUS DATE DATE REQUIRE PRINT DATE | : <u>04SEP96</u> D: <u>31DEC96</u> : <u>280CT10</u> |
|---|--|--|---|
| | <u>N 94-59</u> F 94-331 RVWR: <u>N/2</u> | PAREN LINK? SCHED A OEA PROJ | T AR: |
| Image: Second state sta | PHONE 4042 4241 4241 4241 4241 | $ \begin{array}{c} PAGER \\ 27 \\ 27 \\ 27 \\ 4241 \\ 1 \\ 1 \\ N \\ N \\ N \\ $ | DATE TIME 9SEP94 3SEP94 /A /A |

| PG | REQST GROUP: SUBGROUP : | <u>AT EQPR</u> PGMA | *** ACTION REQUEST A/R AGE: <u>00201</u> | *** | STATUS DATE : DATE REQUIRED: PRINT DATE : | 280CT10 | 01 |
|-----|----------------------------|------------------------|---|------|---|---------|-----|
| | REQST ID : | RMN1 | CONTACT: <u>NANNINGA, R</u> | | AT: | 3348 | |
| === | | | | ==== | | | === |

A/R SUMMARY: <u>SW-1-303 - FAILED STP V-18 INSPECTION</u>

| ASW VACUUM BREAKER SW-1-303 FAILED STP V-18 INSPECTION | RMN1 | 01MAY97 |
|---|--------------|----------------|
| CRITERIA - UNABLE TO STROKE FULL STROKE WITHOUT BEING | RMN1 RMN1 | 01MAY97 |
| FORCED. VALVE DISC STROKED SMOOTHLY OFF SEAT BUT | RMN1 RMN1 | 01MAY97 |
| ENCOUNTERED RESISTANCE ABOUT 1/4" OPEN. I WAS ABLE TO | RMN1 | 01MAY97 |
| FORCE IT OPEN BY REPEATED CYCLING AGAINST RESISTANCE | RMN1 | 01MAY97 |
| UNTIL IT BROKE FREE. VALVE SHOULD BE REMOVED AND FURTHER | | 01MAY97 |
| DISASSEMBLED IN THE SHOP TO DETERMINE THE CAUSE OF THE | RMN1 | 01MAY97 |
| RESISTANCE. | RMN1 | 01MAY97 |
| | FPS1 | 02MAY97 |
| THIS A/R IS TO DOCUMENT THE AS-FOUND CONDITION OF THE | FPS1 | 02MAY97 |
| VALVE. R0160328 EXISTS TO REBUILD THIS VALVE. | FPS1 | 02MAY97 |
| ······································ | FPS1 | 02MAY97 |
| • | | 02MAY97 |
| THE ISSUE/EVENT DESCRIBED IN THIS AR HAS BEEN REVIEWED BY | | 02MAY97 |
| THE DAILY AR REVIEW TEAM (DART) AND DETERMINED TO BE A | KXS7 | 02MAY97 |
| QUALITY PROBLEM PER OM7.ID1. IF ADDITIONAL INFORMATION | KXS7 | 02MAY97 |
| IS DISCOVERED THAT WOULD AFFECT THE QUALITY PROBLEM | KXS7 | 02MAY97 |
| DETERMINATION, CONTACT YOUR DEPARTMENT DART REPRESEN- | KXS7 | 02MAY97 |
| TATIVE. SET QP FIELD = A. | KXS7 | 02MAY97 |
| • | RMN1 | 03MAY97 |
| REMOVED COUNTERWEIGHT COVER. AS COVER WAS BEING REMOVED, | RMN1 | 03MAY97 |
| APPROX 1 PINT OF WATER RAN OUT ON THE TABLE. THERE WAS | RMN1 | 03MAY97 |
| CLEAR EVIDENCE THAT THE HOUSING WAS 1/2 FULL OF SALT | RMN1 | 03MAY97 |
| WATER FOR AN EXTENDED PERIOD OF TIME. THERE WAS A HEAVY | RMN1 | <u>03MAY97</u> |
| CORROSION LAYER AT THE AIR-WATER INTERFACE THAT CREATED A | RMN1 | <u>03MAY97</u> |
| BARRIER WHICH PREVENTED THE COUNTERWEIGHT FROM ROTATING | RMN1 | <u>03MAY97</u> |
| MORE THAN 5 DEGREES. IT REQUIRED REPEATED PULLS ON THE | RMN1 | <u>03MAY97</u> |
| DISC/HANGER TO BREAK THRU THIS BARRIER. LOOSE MATERIAL | RMN1 | <u>03MAY97</u> |
| FROM THE BARRIER WAS FOUND AT THE BOTTOM OF THE HOUSING | RMN1 | <u>03MAY97</u> |
| AFTER COVER REMOVAL. ISI TOOK DIGITAL PICTURES OF THE | RMN1 | <u>03MAY97</u> |
| EVIDENCE FOR FUTURE EVALUATION. SAMPLE OF MATERIAL SAVED | RMN1 | <u>03MAY97</u> |
| FOR TES LABORATORY EVALUATION. | RMN1 | <u>03MAY97</u> |
| • | RMN1 | <u>03MAY97</u> |
| $\underline{MRFF} = \underline{Y}$ | JEA3 | <u>07MAY97</u> |
| W/O R0160328 COMPLETE | | <u>13MAY97</u> |
| • | | <u>13MAY97</u> |
| AR REASSIGND TO SYSTEM ENGINEER FOR CLOSURE PENDING | | <u>13MAY97</u> |
| <u>COMPLETION OF A/E 01 MRFF ANALYSIS</u> | | <u>13MAY97</u> |
| • | JNM1 | <u>13MAY97</u> |
| THE SISTER VALVE ON THE OTHER TRAIN, SW-1-170, WAS FOUND | RMN1 | <u>13MAY97</u> |
| TODAY WITH VERY SIMILAR DEPOSITS IN THE COUNTERWEIGHT | RMN1 | <u>13MAY97</u> |
| HOUSING. UNLIKE, SW-303, HOWEVER, SW-170 STROKED FEELY. | RMN1 | <u>13MAY97</u> |
| APPARENTLY, IT HAD BEEN EXERCISED RECENTLY, PROBABLY | RMN1 | <u>13MAY97</u> |
| DURING AN OPERATIONAL TRANSIENT AND DID NOT HAVE AN | RMN1 | <u>13MAY97</u> |
| INTACT DEPOSIT/CORROSION LAYER IN THE COUNTERWEIGHT | RMN1 | <u>13MAY97</u> |
| HOUSING PRIOR TO MY HAND-STROKING IT. NO NEW AR NEEDED | RMN1 | <u>13MAY97</u> |
| FOR SW-170. REFERENCE R0160319-01. | RMN1 | <u>13MAY97</u> |

| | AND E *** ACTION REQUEST *** A/R NUMBER : A0431200 A/R AGE: 00201 A/R STATUS A/R TYPE : AT EOPR STATUS DAT REQST GROUP: PGMA DATE REQUI SUBGROUP : PRINT DATE REQST ID : RMN1 CONTACT: NANNINGA, R | E : RED : : | <u>18NOV97</u> | 02 |
|-------------|---|--|--|----------------|
| === | | ===== | | === |
| | PROBLEM APPEARS TO BE DEPOSITION IN THE COUNTERWEIGHT CHAMBER. NOTE, THE REDUNDANT VALVE WAS NOT DEGRADED SO SYSTEM FUNCTION WAS PRESERVED, PLEASE REMOVE FROM RFR LIST. CHANGED DUE DATE TO 9/97 TO ALLOW INVESTIGATION. IMMEDIATE CORRECTIVE ACTIONS COMPLETED. CHANGED AR TYPE TO "AT EQPR" FROM "CM EQPR". | JEA3 JEA3 JEA3 JEA3 JLP4 JLP4 JLP4 JLP4 JLP4 | 20MAY97 20MAY97 20MAY97 20MAY97 20MAY97 23MAY97 23MAY97 23MAY97 23MAY97 | |
| | THIS EVENT CLASSIFIED AS MAINTENANCE PREVENTABLE SINCE THE EXISTING PM PROGRAM DID NOT PREVENT THE SALTWATER LEAKAGE. NO FURTHER ACTIONS THAT I CAN SEE, ROUTED TO RMN FOR DISPOSITION. | LLF3 LLF3 JEA3 JEA3 JEA3 | <u>16JUN97</u> <u>16JUN97</u> <u>16JUN97</u> <u>080CT97</u> <u>080CT97</u> <u>080CT97</u> <u>18N0V97</u> | |
| | REFER TO AE 2 FOR PLANS TO POLISH COUNTERWEIGHT HOUSING INTERIOR TO SLOW THE DEALLOYING PROCESS ON THESE VALVES AS THEY AGE. WORK ORDERS FOR THE 4 WAREHOUSE SPARES PLUS THE 4 UNIT-2 VALVES INCORPORATE THE POLISHING STEPS IN THEM. THE VALVES REMOVED FROM UNIT-2 DURING 2R8 WILL BE REWORKED AND INSTALLED IN UNIT-1 DURING 1R9. | RMN1 RMN1 RMN1 RMN1 RMN1 RMN1 | <u>18NOV97</u> 18NOV97 | |
| A | C: <u>C</u> FEG: <u>1 17 2P2</u> COMP ID: <u>1 17 P V SW-1-303</u> COMP DESC : <u>1-2 ASW PUMP DISCH VACUUM RELIEF CHECK VALVE (</u> R TAG: <u>NO EQUIP TAG</u> AVE TAG CONSIDERATIONS BEEN ADDRESSED? : _ VERIFIED BY | | | |
| P P R | ==================================== | SFM N PRIOH CTD: | NOTIFIED : RITY : <u>3 0(</u> <u>X</u> WMI: <u>M1</u> | <u>N</u> 00 |
| | QA CLASS : Q N/A QUALITY PROB: C LLF3 18SEP97 QP RESP ORG : PGMO JLP4 23MAY97 QP DUE DATE: 20SE IND VERIFIER: FUSCO LLF3 DATE: 18SE | <u>P97</u> | | |

| PG AND E A/R NUMBER : <u>A0431200</u> A/R TYPE : <u>AT EQPR</u> REQST GROUP: <u>PGMA</u> SUBGROUP : <u></u> REQST ID : <u>RMN1</u> | *** ACTION REQUEST ** A/R AGE: <u>00201</u> CONTACT: <u>NANNINGA, R</u> | A/R STATUS : STATUS DATE : DATE REQUIRED: PRINT DATE : | <u>18NOV97</u> <u>15NOV97</u> <u>280CT10</u> |
|---|---|--|--|
| POA : <u>NA</u> OT SUPV GR: <u>DC</u> MT RT NBR : OU DCP NBR:O00000 IN | G DOC CD: HER INFO: <u>NRFR (5/20)</u> E ID : TAGE : <u>D</u> RVWR: <u>PIMS</u> TERNAL ORDER: | PARENT LINK? SCHED 01MAY97 OEA PROJ | AR: : : : : |
| ID INITIATED BY : <u>RMN1</u> <u>NAN</u> SUPV REVIEW BY: <u>MPD1</u> <u>DAV</u> ROUTED BY : <u>JNM1</u> <u>MEL</u> | NS, R.S. <u>3396</u> | DNE PAGER D <u>98465</u> <u>01M</u> <u>4691</u> <u>02M</u> <u>N/A</u> <u>N/A</u> | ====================================== |

_ _

WHEN AR GOES TO HISTRY STATUS, NOTIFY: ____ ___ ___

| A/R TYPE : REQST GROUP: SUBGROUP : | <u>A0431200</u> A/F <u>AT EOPR</u> <u>PGMA</u> | ACTION REQUEST *** AGE: <u>00201</u> CACT: <u>NANNINGA, R</u> | A/R STATUS : STATUS DATE : DATE REQUIRED: PRINT DATE : | <u>18NOV97</u> |
|---|---|---|---|--|
| AE NUMBER : <u>01</u> AE DESC : <u>PER</u> | | PROJ: AE ICE RULE FAILURE CAUS | | MPLT <u>16JUN97</u> |
| GROU REQUEST BY: <u>PGM</u> ASSIGNED TO: <u>PGM</u> RETURNED BY: COMPLETE BY: | <u>1P PIM</u> 1C | ANASTASIO, JOE A3 ANASTASIO, JE | | |
| THIS EVENT HA THE MAINTENAN PERFORM A FAI IF THE FAILUR | OUTAGE : AS BEEN CLASSIE ICE RULE. THE S LURE CAUSE EVA RE WAS MAINTENA | POA: SC <u>FIED A FUNCTIONAL FAI</u> SYSTEM ENGINEER IS RE | QUESTED TO LLF3 DETERMINE LLF3 ER TO IDAP LLF3 | 12MAY97 12MAY97 12MAY97 12MAY97 |
| ROOT CAUSE IS THE COUNTERWE DEPOSITION RO BUT IT IS DUE | CIGHT CHAMBER. OT CAUSE IS NO TO ACTION OF | | JEA3 S TIME, JEA3 INTO JEA3 | 12MAY97 23MAY97 23MAY97 16JUN97 16JUN97 |
| MAINTENANCE) THIS EVENT CL | MBER MORE FREC OR TO MODIFY T ASSIFIED AS MA MAINTENANCE PF | DUENTLY (PERFORM MORE THE VALVE TO SEAL THE AINTENANCE PREVENTABL | CHAMBER. JEA3 E SINCE LLF3 | <u>16JUN97</u> <u>16JUN97</u> <u>16JUN97</u> <u>16JUN97</u> <u>16JUN97</u> <u>16JUN97</u> |

| | ATE : UIRED: FE : | PAGE: 05 <u>HISTRY</u> <u>18NOV97</u> <u>15NOV97</u> <u>28OCT10</u> <u>3348</u> |
|---|---|---|
| AE NUMBER : <u>02</u> AE TYPE: PROJ: AE STATUS/DA AE DESC : <u>DOCUMENT RESULTS OF TES LAB ANALYSIS OF THE DE</u> | | <u>MPLT</u> <u>18SEP97</u> |
| ASSIGNED TO: PGMC JEA3 \$1DN RETURNED BY: JEA3ANASTASIO, JE COMPLETE BY: POA: SCHED : X-RAY FLOURESENCE ANALYSIS INDICATES PRESENCE OF: FE,CA,NI,ZN,CL,MN,AL,MG,K,S QUALITATIVE X-RAY DIFFRACTION INDICATES THE PRESENCE OF: SJOGRENITE MG6FE2CO3 (OH) 16,14H20 MAJOR PHASE IRON OXALATE BETA HYDRATE 02FE04,12H20 MINOR PHASE IRON OXALATE BETA HYDRATE 02FE04,12H20 MINOR PHASE CALCITE CACO3 MINOR PHASE ZINCITE ZN0 MINOR PHASE PER RAVI CHHATRE, TES CORROSION ENGINEERING, THESE DEPOSITS ARE COMMING OUT OF THE SEA WATER. THE DEPOSITION IS APPARENTLY ENHANCED DUE TO CORROSION SENSITIZING THE SURFACE OF THE AL/BRNZ WEIGHT CHAMBER. RAVI RECOMMENDS THAT WE CLEAN THE CHAMBER AND POLISH THE SURFACE TO REDUCE THE SENSITIZATION. | DUE ASSIGNI RETURNI SA STI JEA3 JEA3 JEA3 JEA3 JEA3 JEA3 JEA3 JEA3 | 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 16SEP97 |
| AES HAVE BEEN WRITTEN TO THE INTAKE PLANNER TO ADD A STEP TO POLISH THE COUNTERWEIGHT HOUSING INSIDE SURFACES DURING THE NEXT SCHEDULED MAINTENANCE. THIS WILL BECOME A NORMAL PART OF MAINTAINING THESE VALVES. | RMN1 RMN1 RMN1 RMN1 | 18SEP97 18SEP97 18SEP97 18SEP97 |

| PG AND E *** ACTION REQUEST *** A/R NUMBER : A0438773 A/R AGE: 00049 A/R STATU A/R TYPE : AT EVAL STATUS DA REQST GROUP: MM05 DATE REQU SUBGROUP : PRINT DAT REQST ID : RJL1 CONTACT: R. LAVELLE | TE : VIRED: E : | 20AUG97 | 01 |
|--|--|---|--------------------|
| A/R SUMMARY: <u>SW-2-303: DEALLOYING OF BONNET GASKET SEATING</u> | G AREA | | |
| WHILE PERFORMING P.M. R0166910 ON SW-2-303 IT WAS NOTED THAT THE GASKET SEALING AREA OF THE BONNET SHOWED SLIGHT SIGNS OF DEALLOYING. THIS A/R IS TO DOCUMENT THAT CON- DITION. VALVE DOES NOT LEAK AT THE BONNET. | RJL1 RJL1 RJL1 | 02JUL97 02JUL97 02JUL97 02JUL97 03JUL97 | |
| THE ISSUE/EVENT DESCRIBED IN THIS AR HAS BEEN REVIEWED BY THE DAILY AR REVIEW TEAM (DART) AND DETERMINED NOT TO BE A QUALITY PROBLEM PER OM7.ID1. IF ADDITIONAL INFORMATION IS DISCOVERED THAT WOULD AFFECT THE QUALITY PROBLEM DETERMINATION, CONTACT YOUR DEPARTMENT DART REPRESEN- | KXS7 KXS7 KXS7 KXS7 | | |
| TATIVE. SET QP FIELD = N. | TEP1 TEP1 JEA3 JEA3 | 03JUL97 08JUL97 08JUL97 25JUL97 25JUL97 | |
| CONDITION NOTED IN CHECK VALVE TRENDING DATABASE, EXCEL FILE C:\DATA\EXCEL\U2IST98.XLS, IN ORDER TO COMPARE WITH FUTURE INSPECTION FINDINGS. WHEN BONNET LEAKAGE OCCURS OR IS IMMINENT, REPLACEMENT WILL BE CONSIDERED VS. REPAIF DUE TO ACCELERATING NATURE OF THE DE-ALLOYING PROCESS. THIS AR CAN BE CLOSED. **** START - OLD ACTIONS TAKEN / AR CLOSURE COMMENTS **** PROGRAM SO THAT DE-ALLOYING RATE CAN BE TRENDED UNTIL AN INCREASE IS NOTED.2. CLOSE AR. **** END - OLD ACTIONS TAKEN / AR CLOSURE COMMENTS **** | RMN1 RMN1 RMN1 RMN1 RMN1 RMN1 PIMS PIMS PIMS | 20AUG97 20AUG97 20AUG97 20AUG97 20AUG97 20AUG97 20AUG97 10JUL04 10JUL04 10JUL04 10JUL04 | |
| MUC: <u>C</u> FEG: <u>2 17 2P2</u> COMP ID: <u>2 17 P V SW-2-303</u> COMP DESC : <u>2-2 ASW PUMP DISCH VACUUM RELIEF CHECK VALVE</u> AR TAG: <u>NO EQUIP TAG</u> | <u>(L</u> | | |
| HAVE TAG CONSIDERATIONS BEEN ADDRESSED? : _ VERIFIED BY | | | |
| POTENTIALLY REPORTABLE?: <u>N</u> COMPONENT UNAVAILABLE: <u>N</u> PROBLEM CATEGORY : COMPONENT UNAVAILABLE: <u>N</u> REQUIRED DUE DATE : <u>01MAR98</u> SCHEDULE CATEGORY : RESPONSIBLE GROUP : <u>PGMA</u> SUBGROUP: ID: INFO: <u>RMN</u> | SFM PRIO CTD: <u>11\$1HY</u> | NOTIFIED : RITY : <u>4 O</u> <u>X</u> WMI: <u>M1</u> | <u>Y</u> 00 |
| QA CLASS : Q N/A QUALITY PROB: N DART 03JUL97 QP RESP ORG N/A QP DUE DATE: N/A IND VERIFIER: DATE: | <u> </u> | | === |

| PG AND E A/R NUMBER : <u>A0438773</u> A/R TYPE : <u>AT EVAL</u> REQST GROUP: <u>MM05</u> SUBGROUP : <u></u> REQST ID : <u>RJL1</u> | | A/R STATUS STATUS DATE DATE REQUIF PRINT DATE | E : <u>20AUG97</u> ED: <u>01MAR98</u> : <u>280CT10</u> |
|--|---|---|--|
| MRFF : <u>N</u> REG POA : <u>NA</u> OTHI SUPV GR: <u>DC</u> MTE RT NBR : OUTA DCP NBR: OUTA | DOC CD: ER INFO: ID : AGE :RVWR: ERNAL ORDER: | PARE LINK SCHE <u>N/A</u> OEA PROJ | INT AR: |
| ID INITIATED BY : <u>RJL1</u> <u>R. LJ</u> SUPV REVIEW BY: <u>RJL1</u> <u>R. LJ</u> ROUTED BY : <u>TEP1</u> <u>T.E.</u> ASIGN RESP BY: FIELD CMPLT BY: COMPLETED BY : <u>SAK1</u> <u>ALLEJ</u> WHEN AR GOES TO HISTRY STA | NAME PI AVELLE 3582 AVELLE 3582 PIERCE 4590 N, S 3069 | HONE PAGER 3582 3582 3582 3582 4590 | DATE TIME 02JUL97 02JUL97 08JUL97 N/A N/A |

| A/R TYPE: AT EQPRSTATREQST GROUP:AOUTDATESUBGROUP: ADM/PRIM | | 290CT98 31MAR99 280CT10 |
|---|-------------------------|---|
| REQST ID : <u>TEP1</u> CONTACT: <u>ANASTASIO, JOE</u> | AT: | 4909 |
| A/R SUMMARY: <u>SW-2-34: VACUUM BREAKER CHECK VALVE STUC</u> | CK OPEN DUR | ING STROK |
| DUIRNG RECIENT U2 MID-CYCLE ASW VACUUM BREAKER CHEC VALVE PM INSPECTIONS (STROKE), MM FOUND SW-2-34 " CLOSED", REFER TO W/O R0166871 CLOSING COMMENTS. | STUCK TEP1 TEP1 | 22AUG97 22AUG97 22AUG97 |
| THE PROBLEM WAS CORRECTED BY MM VIA THAT W/O. HOWE NO A/R WAS WRITTEN AT THE TIME (NOTICED DURING PACKA CLOSURE). | | 22AUG97 22AUG97 22AUG97 22AUG97 |
| <u>THE PM'S, RT (5)52084 THRU (5)52087, DO NOT SPECIFI</u> <u>STATE THAT AN A/R SHOULD BE WRITTEN IF THE VALVES AF</u> FOUND TO BE DEGRADED. I HAVE DISCUSSED THIS ISSUE W | RE TEP1 | 22AUG97 22AUG97 22AUG97 22AUG97 |
| FOUND TO BE DEGRADED. I HAVE DISCUSSED THIS ISSUE V THE PM ENGINEER (DJD3) AND RECOMMENDED THAT WE CLARI THE RT'S. | IFY TEP1 TEP1 | 22AUG97 22AUG97 22AUG97 22AUG97 |
| THE CURRENT PM TASK CAN BE REVISED TO INCLUDE SPECIE DETAILS FOR VALVE INSPECTIONS THAT MAY AFFECT VALVE OPERABILITY. THIS SUBJECT NEEDS TO BE ADDRESSED BY T | DJD3 THE DJD3 | 22AUG97 22AUG97 22AUG97 |
| RESPONSIBLE SYSTEM AND COMPONENT ENGINEERS PRIOR TO REVISING THE PM TASKS. CURRENT PM PROCEDURE MA1.DC51 REQUIRES THAT AN AR BE WRITTEN WHENEVER AN UNEXPECTE CONDITON OUTSIDE OF THE PM TASK IS FOUND. THIS SHOUT | L DJD3 ED DJD3 | 22AUG97 22AUG97 22AUG97 22AUG97 |
| CLEARLY BE THE CASE FOR A VALVE THAT IS FOUND STUCK OR CLOSED. THE SUBJECT OF PROPER PM LINE ITEMS FOR ADDRESSING ENGINEERING AND MANAGEMENT EXPECTATIONS S | OPEN DJD3 DJD3 | 22AUG97 22AUG97 |
| BE ADDRESSED AS A SEPARATE ITEM FROM THIS VALVE PROF • • | DJD3 KXS7 | 22AUG97 22AUG97 26AUG97 |
| THE ISSUE/EVENT DESCRIBED IN THIS AR HAS BEEN REVIEW THE DAILY AR REVIEW TEAM (DART) AND DETERMINED TO BE QUALITY PROBLEM PER OM7.ID1. IF ADDITIONAL INFORMAT | EA KXS7 FION KXS7 | 26AUG97 26AUG97 |
| IS DISCOVERED THAT WOULD AFFECT THE QUALITY PROBLEM DETERMINATION, CONTACT YOUR DEPARTMENT DART REPRESEN TATIVE. SET QP FIELD = A. | | <u>26AUG97</u> <u>26AUG97</u> <u>26AUG97</u> 26AUG97 |
| THE UNIT-1 ASW VACUUM BREAKERS HAVE HAD THEIR SEATS REPLACED WITH TEFLON COATED SEATS. THIS MODIFICATION PERFORMED IN ALL 4 UNIT-1 VALVES, APPEARS EFFECTIVE | RMN1 | 26AUG97 26AUG97 26AUG97 26AUG97 |
| ELIMINATING THE SEAT STICKING PROBLEM. I RECOMMEND MODIFY THE SPARE VALVES IN WAREHOUSE STOCK AND SWAP OUT IN UNIT-2 DURING 2R8. THIS WORK DOES NOT ADD TO | WERMN1THEMRMN12R8RMN1 | 26AUG97 26AUG97 26AUG97 |
| WORK SCOPE SINCE THE SEAT REPLACEMENTS WOULD BE PERE PRIOR TO 2R8. RATHER THAN REBUILDING THE VALVES DUE 2R8, WHICH IS TYPICAL, WE WOULD SWAP THEM OUT THEN, WOULD ACTUALLY REDUCE THE AMOUNT OF WORK DONE IN 2R8 | RING RMN1 WHICH RMN1 | 26AUG97 26AUG97 26AUG97 26AUG97 |
| REF. C0146783 FOR MODIFYING THE SPARE VALVES FOR UNI THIS MODIFICATION WAS PERFORMED I.A.W. RPE P-7066. MRFF SET TO Y, THIS VALVE SHOULD NOT BE STUCK EITHER | RMN1 | 26AUG97 26AUG97 27AUG97 |

| PG | AND E*** ACTION REQUEST ***A/R NUMBER : A0442225A/R AGE: 00433A/R STATUSA/R TYPE : AT EOPRSTATUS DATREQST GROUP: AOUTDATE REQUISUBGROUP : ADM/PRINT DATEREQST ID : TEP1CONTACT: ANASTASIO, JOE | TE : IRED : I : | PAGE: <u>HISTRY</u> 290CT98 31MAR99 280CT10 4909 | 02 |
|----|--|-----------------------|---|----|
| | | | | |
| | OR CLOSED. | JEA3 | <u>27AUG97</u> | |
| | <u>.</u> | TEP1 | <u>05sep97</u> | |
| | <u>*UP-DATE: A/R A0437708 TRACKS INSTALLATION OF TEFLON</u> | TEP1 | <u>05sep97</u> | |
| | SEATS IN THE U2 CHECK VALVES. WORK ORDERS ARE | TEP1 | <u>05sep97</u> | |
| | CURRENTLY SCHEDULED FOR 2R8. | TEP1 | <u>05SEP97</u> | |
| | CONCUR WITH SE EVALUATION IN AE01 THIS EVENT WAS MAINT. | LLF3 | <u> 185EP97</u> | |
| | PREVENTABLE. | LLF3 | <u> 185EP97</u> | |
| | • | RMN1 | 22SEP97 | |
| | CORRECTION TO REQUESTOR'S ENTRY ON 8/22/97 (LINE 3): THIS | | 22SEP97 | |
| | VALVE WAS NOT FOUND STUCK CLOSED. THE VALVE STUCK OPEN | RMN1 | 22SEP97 | |
| | WHEN HAND-STROKED (SEE R0166871 CLOSURE REMARKS). AS- | RMN1 | 22SEP97 | |
| | FOUND, THE VALVE WAS CLOSED AND THE DISC WAS NOT STICKING | | 22SEP97 | |
| | TO IT'S SEAT. WHILE CERTAINLY NOT DESIRABLE, THIS | RMN1 | 22SEP97 | |
| | CONDITION IS MUCH LESS SIGNIFICANT FOR THIS VALVE THAN STICKING CLOSED. IN THE EVENT THAT A PUMP TRIP OR OTHER | RMN1 | <u>22SEP97</u> 22SEP97 | |
| | STICKING CLOSED. IN THE EVENT THAT A PUMP TRIP OR OTHER OPERATIONAL TRANSIENT MIGHT CYCLE THE VALVE AND CAUSE IT | <u>RMN1</u> RMN1 | 22SEP97 | |
| | TO STICK OPEN, THE VALVE WOULD STILL BE CAPABLE OF | RMN1 RMN1 | 22SEP97 | |
| | PERFORMING IT'S PRIMARY DESIGN FUNCTION. | RMN1 | 22SEP97 | |
| | PERFORMING IT 5 PRIMARI DESIGN FONCTION. | RMN1 RMN1 | 25NOV97 | |
| | · THIS ISSUE OF THIS AR - THE VALVE STICKING IN THE OPEN | RMN1 | 25NOV97 | |
| | POSITION AS IT WAS HAND-STROKED - IS BEING ADDRESSED BY | RMN1 | 25NOV97 | |
| | INCLUDING A POLISHING STEP IN THE PM WORK ORDERS. THE | RMN1 | 25NOV97 | |
| | PROBLEM IS THAT THERE ARE TIGHT CLEARANCES BETWEEN THE | RMN1 | 25NOV97 | |
| | COUNTERWEIGHT AND THE COUNTERWEIGHT HOUSING. THE | RMN1 | 25NOV97 | |
| | CORROSION THAT WE'VE SEEN IS A RESULT OF THE DE-ALLOYING | RMN1 | 25NOV97 | |
| | PROCESS AND WE HAVE SEEN A HEAVY CRUST FORM AT THE AIR-TO | RMN1 | 25NOV97 | |
| | WATER INTERFACE IN THE COUNTERWEIGHT HOUSING. TES HAS | RMN1 | 25NOV97 | |
| | DETERMINED THAT POLISHING THE COUNTERWEIGHT HOUSING | RMN1 | 25NOV97 | |
| | INTERIOR SURFACES WILL SLOW THE DEALLOYING PROCESS, WHICH | RMN1 | <u>25NOV97</u> | |
| | ACCELERATES WITH AGE DUE TO GRADUALLY INCREASING SURFACE | | <u>25NOV97</u> | |
| | AREA OF THE METAL. THE VALVES THAT WILL BE INSTALLED IN | | <u>25NOV97</u> | |
| | UNIT-2 DURING 2R8 WILL HAVE THEIR HOUSINGS POLISHED WHEN | | <u>25NOV97</u> | |
| | THE WAREHOUSE SPARE VALVES ARE REFURBISHED WITH THE NEW | | <u>25NOV97</u> | |
| | TEFLON SEAT RINGS PRE-2R8. THE VALVES REMOVED FROM UNIT- | | | |
| | 2 WILL BE REBUILT FOR INSTALLATION IN UNIT-1 DURING 1R9. | | 25NOV97 | |
| | MEANWHILE, WE ARE WATCHING CLOSELY FOR THIS CONDITION | | 25NOV97 | |
| | WHICH DOES NOT SEEM TO OCCUR TO THE SAME DEGREE WITH ALL | | 25NOV97 | |
| | THE VALVES AND 6 MONTHS HAS BEEN DEMONSTRATED TO BE | | 25NOV97 | |
| | FREQUENT ENOUGHT TO PREVENT THIS CONDITION FROM AFFECTING | | | |
| | VALVE OPERABILITY IS MOST CASES. | | 25NOV97 | |
| | THIS AR CAN BE CLOSED. THIS IS AN A-TYPE AR THAT WILL REMAIN OPEN UNTIL THE UNIT | | <u>25NOV97</u> 01DEC97 | |
| | 2 VALVES ARE REPLACED AT 2R8 WITH UPGRADED VALVES. DUE | RMN1 RMN1 | 01DEC97 | |
| | Z VALVES ARE REPLACED AT 2R8 WITH OPGRADED VALVES. DUE DATE CHANGED TO REFLECT THIS. | RMN1 RMN1 | 01DEC97 | |
| | MIL CHANGED IV REFLECT THID. | | 02FEB98 | |
| | • A0437708 ADDED AS CHILD AR AS IT IMPLEMENTS THE | | 02FEB98 | |
| | CORRECTIVE ACTIONS FOR THIS QUALITY PROBLEM. | | 02FEB98 | |
| | <u></u> | | 02FEB98 | |
| | · VALVES SW-2-34 & 170 HAVE BEEN REPLACED WITH TEFLON | | 04MAR98 | |
| | | <u></u> | | |

| G AND E *** ACTION REQUEST *** A/R NUMBER : A0442225 A/R AGE: 00433 A/R STAT A/R TYPE : AT EOPR STATUS D REQST GROUP: AOUT DATE REQ SUBGROUP : ADM/ PRINT DA REQST ID : TEP1 CONTACT: ANASTASIO, JOE | ATE : UIRED: TE : | 290CT98 | 03 |
|--|-------------------------|---------------------------|------|
| | | | _=== |
| SEATED AND POLISHED VALVES. SW-2-301 & 303 HAVE BEEN | RMN1 | 04MAR98 | |
| REMOVED AND REPLACEMENT VALVES WITH TEFLON SEATS AND | RMN1 | 04MAR98 | |
| POLISHED COUNTERWEIGHTS/COUNTERWEIGHT HOUSINGS WILL BE | RMN1 | 04MAR98 | |
| REINSTALLED AFTER CURRENT CONCRETE REPAIRS ARE COMPLETE | RMN1 | 04MAR98 | |
| AND THEIR SUPPORT REINSTALLED, CURRENTLY SCHEDULED FOR | RMN1 | 04MAR98 | |
| 3/9/98. | RMN1 | 04MAR98 | |
| VALVES SW-2-301 & 303 HAVE BEEN REINSTALLED. THESE | RMN1 | 11MAR98 | |
| REBUILT VALVES HAVE TEFLON COATED SEAT RINGS AND POLISHE | | 11MAR98 | |
| COUNTERWEIGHTS AND COUNTERWEIGHT HOUSINGS. | RMN1 | 11MAR98 | |
| • | RMN1 | 11MAR98 | |
| SUMMARY OF ISSUES W.R.T. ASW VACUUM BREAKERS: | RMN1 | 11MAR98 | |
| | RMN1 | <u>11MAR98</u> | |
| ISSUE # 1 (SEAT STICKING): ALL 8 VALVES IN BOTH UNITS (4 | | <u>11MAR98</u> | |
| EACH UNIT) HAVE BEEN REBUILT WITH TEFLON SEAT RINGS. | RMN1 | <u>11MAR98</u> | |
| THIS CORRECTIVE ACTION IS EXPECTED TO AND APPEARS TO HAV | | <u>11MAR98</u> 11MAR98 | |
| CORRECTED THE PROBLEM WITH DISCS STICKING TO THEIR SEATS DUE TO LONG PERIODS OF INACTIVITY. | | 11MAR98 | |
| DUE IO LONG PERIODS OF INACIIVIII. | RMN1 RMN1 | 11MAR98 | |
| · ISSUE # 2 (STICKING OPEN, SLUGGISH STROKING): THIS ISSUE | | 11MAR98 | |
| IS LESS SIGNIFICANT FOR THESE VALVES SINCE THEIR SAFETY | RMN1 | 11MAR98 | |
| FUNCTION IS TO OPEN TO RELIEVE VALUES. THE CORRECTIVE | RMN1 | 11MAR98 | |
| ACTION FOR THIS PROBLEM IS POLISHING THE COUNTERWEIGHTS | RMN1 | 11MAR98 | |
| AND COUNTERWEIGHT HOUSING INTERIOR SURFACES. THIS WILL | RMN1 | 11MAR98 | |
| GREATLY REDUCE THE CORROSION RATE AND THE SPEED AT WHICH | | 11MAR98 | |
| THE AIR-TO-WATER INTERFACE CORROSION LAYER FORMS IN THE | RMN1 | 11MAR98 | |
| COUNTERWEIGHT HOUSINGS. THE UNIT-2 VALVES HAVE BEEN | RMN1 | 11MAR98 | |
| POLISHED. UNIT-1'S HAVE NOT. CURRENT PLANS ARE TO | RMN1 | 11MAR98 | |
| REPLACE THE UNIT-1 VACUUM BREAKERS WITH THE ONES REMOVED | RMN1 | 11MAR98 | |
| FROM UNIT-2 DURING 2R8 AFTER THEY HAVE BEEN REBUILT WITH | RMN1 | 11MAR98 | |
| TEFLON SEATS AND POLISHED HOUSINGS AND COUNTERWEIGHTS. | RMN1 | <u>11MAR98</u> | |
| • | RMN1 | <u>11MAR98</u> | |
| IN SUMMARY: UNIT-2 - BOTH ISSUES SHOULD BE RESOLVED. | | <u>11MAR98</u> | |
| UNIT-1 - SEAT STICKING, THE MORE SIGNIFICANT | | <u>11MAR98</u> | |
| ISSUE, HAS BEEN RESOLVED. POLISHED VALVES | | 11MAR98 | |
| TO BE INSTALLED 2R9 TO RESOLVE COUNTERWEIGHT | | 11MAR98 | |
| HOUSING INTERNAL CLEARANCE PROBLEM. | RMN1 | 11MAR98 | |
| • | | <u>11MAR98</u> | |
| OOPS! MAKE THAT 1R9, 3 LINES ABOVE. | | 25MAR98 | |
| THIS AR WILL TRACK REPLACEMENT OF THE UNIT-1 VALVES WITH | | 25MAR98 | |
| POLISHED COUNTERWEIGHT/CW HOUSING VALVES AT 1R9. AR | | 25MAR98 | |
| REQUIRED DATE REVISED TO 3/31/99 FROM 3/31/98. | | 25MAR98 | |
| <u>REQUEST ORGN CHANGED FROM MM05 TO AOUT - SEE PMOD 226112</u> | | <u>2700198</u> 2700198 | |
| • QE Q0012080 WRITTEN 10/23/98 TO ADDRESS PERFORMING A | | | |
| FORMAL CAUSE EVALUATION FOR THIS PROBLEM. THE WORK | | 270CT98 | |
| ORDERS FOR MODIFYING THE VALVES REMOVED FROM UNIT-2 | | 270CT98 | |
| DURING 2R8 FOR INSTALLATION IN UNIT-1 DURING 1R9 ARE | RMN1 RMN1 | 270CT98 | |
| WRITTEN OFF AR A0437708. THEREFORE, THIS AR CAN BE | | 270CT98 | |
| CLOSED. | | 270CT98 | |
| | T /T.11N T | 2100100 | |

| PG AND E A/R NUMBER : <u>A0442225</u> A/R TYPE : <u>AT EQPR</u> REQST GROUP: <u>AOUT</u> SUBGROUP : <u>ADM/</u> REQST ID : <u>TEP1</u> (| | A/R STA DAT PRI | TUS DATE E REQUIRE NT DATE | : <u>HIST</u> : <u>290C'</u> D: <u>31MA</u> : <u>280C'</u> | <u>198</u> <u>R99</u> 110 |
|---|--|--|---|---|--|
| NOW TRACK THE QP. **** END - OLD ACTIONS MUC: <u>C</u> FEG: <u>2 17 1P1</u> COMP DESC : <u>2-1 ASW PUMH</u> AR TAG: <u>NO EQUIP TAG</u> | S TAKEN / AR CLOS E 1 VALVES, THIS E Q0012080 WRITTEN TAKEN / AR CLOSU COMP ID: <u>2 17 P</u> P DISCH VACUUM RE | JRE COMMENT AR TRACKS Q N 10/23/98, RE COMMENTS Z SW-2-3 LIEF CHECK | E. SA S **** PJ P PJ WILL PJ **** PJ 4 VALVE (R | IMS 10JU IMS 10JU IMS 10JU IMS 10JU IMS 10JU | <u>198</u> <u>L04</u> <u>L04</u> L04 L04 |
| HAVE TAG CONSIDERATIONS BEEN ADDRESSED? : Y VERIFIED BY : ================================= | | | | | |
| POA:OTHESUPV GR:DCMTERT NBR :OUTADCP NBR:000000INTE | SAK1 ==== PROGRAM REVII DOC CD: ER INFO: <u>RFR-COMP</u> ID : AGE : RVWR: ERNAL ORDER: | DAT: EWS ======= <u>LT3/11-RMN1</u> <u>N/A</u> | E: <u>290CT9</u> PAREN LINK? OEA PROJ | 98 NT AR:) | |
| ID INITIATED BY : <u>TEP1</u> <u>T.E.</u> SUPV REVIEW BY: <u>TEP1</u> <u>T.E.</u> ROUTED BY : <u>JLJ1</u> <u>JOHNS</u> ASIGN RESP BY: FIELD CMPLT BY: COMPLETED BY : <u>SAK1</u> <u>ALLEN</u> | NAME PIERCE PIERCE SON, J. | PHONE <u>1590</u> <u>1590</u> <u>1894</u> | PAGER <u>4590</u> <u>4894</u> <u>1</u> | DATE 22AUG97 22AUG97 26AUG97 1/A | TIME |
| WHEN AR GOES TO HISTRY STAT | TUS, NOTIFY: | | | | |

| PG AND E A/R NUMBER : <u>A0442225</u> A/R TYPE : <u>AT EQPR</u> REQST GROUP: <u>AOUT</u> SUBGROUP : <u>ADM/</u> REQST ID : <u>TEP1</u> CO | *** ACTION REQUEST *** A/R AGE: <u>00433</u> ONTACT: <u>ANASTASIO, JOE</u> | DATE REQUIRED: <u>290CT98</u> DATE REQUIRED: <u>31MAR99</u> PRINT DATE : <u>280CT10</u> |
|--|--|--|
| | PROJ: AE S NANCE PREVENTABLE CAUSE | STATUS/DATE: <u>COMPLT</u> <u>18SEP97</u> DETERMINATION |
| REQUEST BY: PGMP | ID INFO PIMS FUSCO ANASTASIO, JOE JEA3 ANASTASIO, JE LLF3 | DUE : 020CT97 |
| THIS EVENT HAS BEEN CLASS THE SE IS REQUESTED TO PH CAUSE DETERMINATION IAW THE MOST LIKELY CAUSE IS STICKING. THE MODIFICAT ELIMINAT THIS PROBLEM. | <u></u> POA:SCF SIFIED A MR FUNCTIONAL F ERFORM A MAINTENANCE PRE IDAP MA1.ID17. CORROSION OR OTHER CAUS | AED :SA STATUS:FAILURE.LLF3 02SEP97EVENTABLELLF3 02SEP97SED SEATJEA3 16SEP97SHOULDJEA3 16SEP97JEA3 16SEP97 |

| | AND E *** ACTION REQUEST *** A/R NUMBER : A0460974 A/R AGE: 00027 A/R STATUS A/R TYPE : AT EQPR STATUS DAT REQST GROUP: PGMA DATE REQUEST SUBGROUP : PRINT DATE REQST ID : RMN1 | IE : IRED: I : | <u>01JUN98</u> |
|----|---|----------------------|---------------------------|
| | D GUMMADY, CH 1 24 MINOD DEGIGMANCE DO ODENING GEEN DUD | | |
| A/ | R SUMMARY: <u>SW-1-34 - MINOR RESISTANCE TO OPENING SEEN DUR</u> | ING Pr | <u>/</u> |
| | DURING THE PERFORMANCE OF THE 6 MONTH PM ON THIS VACUUM | RMN1 | 05MAY98 |
| | BREAKER UNDER W/O R0177381, NOTICEABLE RESISTANCE WAS | RMN1 | 05MAY98 |
| | ENCOUNTERED DURING HAND STROKING AT APPROXIMATELY THE 1/4 | | 05MAY98 |
| | OPEN POSITION. THIS IS AN EXPECTED CONDITION AND IS | RMN1 | 05MAY98 |
| | CAUSED BY A THIN CORROSION LAYER FORMING ON THE AIR-TO- | RMN1 | 05MAY98 |
| | WATER INTERFACE IN THE COUNTERWEIGHT HOUSING. IT TOOK | RMN1 | 05MAY98 |
| | ABOUT 2 POUNDS OF PRESSURE TO BREAK THRU THIS LAYER AND | RMN1 | 05MAY98 |
| | FROM THAT POINT ON, THE VALVE STROKED FREELY. THIS | RMN1 | <u>05MAY98</u> |
| | CONDITION DOES NOT JEOPARDIZE OPERABILITY OF THIS VALVE | RMN1 | <u>05MAY98</u> |
| | OR THE SYSTEM. 6 MONTHS IS NOT SUFFICIENT TIME FOR THIS | RMN1 | <u>05MAY98</u> |
| | CORROSION LAYER TO BUILD UP TO A THICKNESS THAT MIGHT | RMN1 | <u>05MAY98</u> |
| | AFFECT THIS VALVE'S ABILITY TO PERFORM IT'S DESIGN | RMN1 | <u>05MAY98</u> |
| | FUNCTION. THEREFORE, IT IS ACCEPTABLE TO RETURN THIS | RMN1 | <u>05MAY98</u> |
| | VALVE TO SERVICE FOR ANOTHER 6 MONTHS. DURING 1R9, WE | RMN1 | <u>05MAY98</u> |
| | PLAN ON INSTALLING THE VALVES REMOVED FROM UNIT-2 DURING | RMN1 | <u>05MAY98</u> |
| | 2R8 WITH POLISHED COUNTERWEIGHTS AND HOUSINGS TO REDUCE | RMN1 | <u>05MAY98</u> |
| | THE RATE OF DEALLOYING. THIS IS A MANAGEABLE PROBLEM | RMN1 | <u>05MAY98</u> |
| | THAT WE CAN CONTROL WITH CONTINUED ATTENTION TO THE | RMN1 | <u>05MAY98</u> |
| | POLISHED CONDITION OF THE COUNTERWEIGHTS/HOUSINGS. | RMN1 | 05MAY98 |
| | | RMN1 | 05MAY98 |
| | ANY WORK ASSOCIATED WITH THE SUBJECT VACUUM BREAKERS CAN | RAW2 | 05MAY98 |
| | BE ACCOMPLISHED AT POWER. AS A RESULT, ANY WORK REQUIRED | | 05MAY98 |
| | TO BE PERFORMED MUST BE PLANNED AND COORDINATED IN THE ON LINE MAINTENANCE SCHEDULE. WITH REFERENCE TO THE | RAW2 | <u>05MAY98</u> 05MAY98 |
| | ON LINE MAINTENANCE SCHEDULE. WITH REFERENCE TO THE PREVIOUS PARAGRAPH, THE RECOMMENDED SCOPE OF WORK IS | RAW2 | 05MA198 |
| | NOT CONSIDERED 1R9 SCOPE. | <u>RAW2</u> RAW2 | |
| | NOT CONSIDERED IR9 SCOPE. | | 05MA198 |
| | RAW2 - NTS ACTION REQUEST REVIEW TEAM AND 30/30 OUTAGE | | 05MAY98 |
| | TEAM REPRESENTATIVE. | | 05MAY98 |
| | | | 05MAY98 |
| | MRFF=N, VALVES EXPERIENCE GREATER THAN 45 LBS OPENING | | 08MAY98 |
| | FORCE WHEN ACTUATING TO RELIEVE VACUUM, SO VALVE WOULD | | 08MAY98 |
| | HAVE FUNCTIONED | | 08MAY98 |
| | | RMN1 | 01JUN98 |
| | FAILURE HAS BEEN ADDED TO FAILURE TRENDING DATA BASE. | RMN1 | 01JUN98 |
| | THIS AR CAN BE CLOSED. | RMN1 | 01JUN98 |
| | **** START - OLD ACTIONS TAKEN / AR CLOSURE COMMENTS **** | PIMS | 10JUL04 |
| | FURTHER ACTION REQUIRED. ENTER EVENT INTO CHECK VALVE | | 10JUL04 |
| | FAILURE DATA BASE. | | <u>10JUL04</u> |
| | **** END - OLD ACTIONS TAKEN / AR CLOSURE COMMENTS **** | PIMS | 10JUL04 |
| | UC: <u>C</u> FEG: <u>1 17 1P1</u> COMP ID: <u>1 17 P V SW-1-34</u> COMP DESC : <u>1-1 ASW PUMP DISCH VACUUM RELIEF CHECK VALVE</u> AR TAG: <u>NO EQUIP TAG</u> | <u>(R</u> | |

HAVE TAG CONSIDERATIONS BEEN ADDRESSED? : _ VERIFIED BY : ____

| REQST GROUP: PGM/ | | DAT | E REQUIRED: | <u>29MAY98</u> |
|--|---|---|--|---|
| POTENTIALLY REPOR PROBLEM CATEGORY REQUIRED DUE DATE RESPONSIBLE GROUP | E====== REVIEW AND ASSI CABLE?: <u>N</u> COMPONENT : LEVEL OF : <u>29MAY98</u> SCHEDULE : <u>PGMA</u> SUBGROUP: I ====== QUALITY PROBLEM C | UNAVAILABL DEGRADATION CATEGORY D: INF | LE: <u>N</u> SFM I : PRIC : CTD: CO: <u>RMN1\$2HN</u> | NOTIFIED : <u>N</u> DRITY : <u>2</u> 000 : <u>P</u> WMI: <u>M1</u> N |
| QA CLASS : Q QUALITY PROB: <u>N</u> QP RESP ORG : IND VERIFIER: | <u>N/A</u> <u>DART</u> <u>06MAY98</u> <u>N/A</u> | QP DUE DAT DAT | 'E: <u>N/A</u> 'E: | - |
| MRFF : <u>N</u> POA : SUPV GR: DC | REG DOC CD: OTHER INFO: MTE ID : OUTAGE :RVWR: INTERNAL ORDER: | | PARENT LINK? SCHED | AR: |
| II INITIATED BY : <u>RM</u> SUPV REVIEW BY: <u>MPI</u> ROUTED BY : <u>MPI</u> ASIGN RESP BY: | NANNINGA, R DI DAVIDO DI DAVIDO | PHONE <u>3348</u> <u>4955</u> <u>P8465</u> <u>4955</u> <u>P8465</u> | PAGER I 3348 05M 06M 13M 13M N/Z | DATE TIME 1AY98 1AY98 1AY98 |
| WHEN AR GOES TO HIS! | | | | |
| | | | | |
| | | | | |
| | | | | |

U-0

Notification: 50297724

Type: DN Work Type: EVAL OEA

Description: NEI 09-14, GL for Mgmt of Buried Piping

Order:

Funct. Loc: DC-0-00

U0 SYS 00 ADMINISTRATIVE-NO SYS ENG

| Reported By: TCJ1 | Thomas C. Joyce | Rpt By Work Ctr: NPI |
|--------------------|-------------------------------------|-----------------------------|
| Contact Info: TCJ1 | Thomas C. Joyce 805/545-4139 | Created On: 09 Feb 10 07:04 |
| Planner Group: | | |
| Main Wrk Ctr: NPI | Supervisor - Performance Improvemen | t |
| | | |

PROBLEM DESCRIPTION

02/09/2010 06:05:09 Thomas C. Joyce (TCJ1) Phone 805/545-4139 This SAPN requests evaluation of Nuclear Energy Institute NEI 09-14, "Guideline for the Management of Buried Piping Integrity", dated January, 2010. Evaluation should be IAW the rigor and timeliness requirements of OM4.ID3, "Assessment of Industry Operating Experience". IF through the course of evaluation a problem is identified, a new SAPN shall be initiated IAW OM7.ID1, "Problem Prevention and Resolution".

* * * *

In Part..

The Industry Guideline for the Management of Buried Piping Integrity describes the policy and practices that the industry commits to follow in managing buried piping. These guidelines support the Industry Initiative on Buried Piping Integrity adopted by the NEI Nuclear Strategic Issues Advisory Committee (NSIAC) on November 18, 2009. Utility implementation of the Initiative will be verified as directed by the NSIAC. This guideline:

Documents the scope of the formal Industry Initiative on Buried Piping Integrity (the #Initiative#).

Sets the goals that drive the Initiative.

Defines the roles and responsibilities established to ensure

Event Date 09 Feb 10 Notif Required By 10 Apr 10

Station Sig.: 5 Other

U-0

Notification: **50297724**

Type: DN Work Type: EVAL OEA

Description: NEI 09-14, GL for Mgmt of Buried Piping

Order:

implementation of the Initiative.

Defines the content and responsibilities for creating reports to NSIAC on Initiative implementation.

The approach to addressing buried piping issues embodied in this Initiative is in addition to the expectations in place under the Ground Water Protection Initiative, which was approved by NSIAC in 2007 and which remains fully in effect.

* * * *

FULL document and transmittals attached to this SAPN.

* * * *

02/10/2010 12:06:03 Lee F. Goyette (LFG1) Phone 805/545-6523 DCPP has been actively developing a buried piping program in response to 1) license extension requirements, and 2) the draft NEI 09-14. Activities have been underway for the past year, and include joint efforts with STARS. See 50286561 of 12/1/2009. Suggest 50297724 be closed and actions continue to be tracked on 50286561. 02/10/2010 13:19:31 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.

03/31/2010 17:36:26 Nozar Jahangir (NXJ1) Note; DCPP applicability evaluation is documented in task -2. HBPP should be consulted for applicability to that site. 04/01/2010 06:17:13 Thomas C. Joyce (TCJ1) Phone 805/545-4139

==========

Manager concurrence obtained. Tasks COMPLETE. HBPP evaluation consideration eMail sent (attached t this SAPN). Notification being CLOSED.

| Notification: 50297724 Type: DN Work Type: EVAL OEA Description: NEI 09-14, GL for Mgmt of Buried Piping Order: | | | | |
|---|--|--|--|--|
| | | | | |
| STATUS DETAILS | | | | |
| System Status: NOCO ATCO | | | | |
| User Status: 25 ASGN Assigned to Target Workcenter | | | | |
| | | | | |
| Task # 1 Screen NEI 09-14 for DCPP Applicability | | | | |
| Status: TSCO Task Completed | | | | |
| Code Group: DG-OEA Operating Experience Assessment | | | | |
| Task Code: OESC Evaluate for Screen and Closure | | | | |
| Responsible: User Responsible TCJ1 Thomas C. Joyce 805/545-4139 | | | | |
| Work Ctr: | | | | |
| Created On: 09 Feb 10 By: TCJ1 Thomas C. Joyce | | | | |
| Planned Start: 09 Feb 10 Planned Finish: 09 Feb 10 | | | | |
| Completed On: 09 Feb 10 06:21 By: TCJ1 Thomas C. Joyce 805/545-4139 | | | | |
| 02/09/2010 06:14:08 Thomas C. Joyce (TCJ1) Phone 805/545-4139 Evaluate the industry operating experience (OPEX) in this Notification in accordance with procedure OM4.ID3, Assessment of Industry Operating Experience, and determine which course of action below is appropriate. | | | | |
| 1) Screen and close this Notification based on the criteria in OM4.ID3. Include a brief justification herein. Refer also to item 4 below. | | | | |
| Request a subject matter expert (SME) to assist in the review for applicability by creating an OEIA task for an initial applicability determination. | | | | |
| Request a formal evaluation (OE is applicable and cannot be screened) by creating an OEFE task and an OEMC task for manager concurrence. | | | | |
| 4) If the OPEX may be applicable to Humboldt Bay Power Plant (HBPP), inform HBPP accordingly. | | | | |
| IMPORTANT NOTES: | | | | |
| 1. Consider whether the condition or issue identified in a 10CFRPart21, NSAL, Vendor Technical Advisory, Supplier Defect Report, etc. could potentially impact the operability of SSCs. If so, then the Shift | | | | |
| | | | | |

| U-0 | | 50297724 Type: DN Work Type: EVAL OEA NEI 09-14, GL for Mgmt of Buried Piping Foreman, Work Control Shift Foreman, or Shift Manager should be notified per |
|--|--------------------------------------|---|
| | | 2. IF Shift Foreman or Shift Manager notification is required per 1. above, AND the issue, event, or condition affects TS or ECG structures, systems, or components (SSCs), THEN create a DO-EFFCT-SFMR Task for Operations to acknowledge receipt of the verbal notification and that an OPS evaluation is proceeding, as applicable, in accordance with OM7.ID12. This task is being taken to COMPLETE in lieu of the formal evaluation requested by management. Refer to OEFE and OEMC tasks this SAPN. |
| Stat | us: TSCO up: DG-OEA | uate NEI 09-14 for DCPP Applic Task Completed Operating Experience Assessment OE Formal Evaluation Request |
| Task Code: OEFE | | |
| Responsible: User Responsible: | | |
| | | Reliability |
| Created On: 09 Feb 10 Planned Start: 09 Feb 10 | | By: TCJ1 Thomas C. Joyce Planned Finish: 23 Feb 10 |
| Completed On: 10 Feb 10 1 | | |
| | | 02/09/2010 06:24:29 Thomas C. Joyce (TCJ1) Phone 805/545-4139 This Task requests your evaluation of the operating experience (OPEX) in this Notification. If a problem is identified during the course of your evaluation, a separate Notification should be initiated to report that problem in accordance with procedure OM7.ID1. NOTE: |
| | | a) The basis for requesting this evaluation is in the OESC Task for this Notification. |
| | | b) OEA has initially set the Planned Finish date to 2/23/2010 for performing an initial review, assuring the Work Center assignment is appropriate, and determining if additional Tasks are needed to support your evaluation. |
| | | c) After completing item b) above, the Planned Finish date may be |
| | | |

U-0

Notification: **50297724**

Type: DN Work Type: EVAL OEA

Description: NEI 09-14, GL for Mgmt of Buried Piping

Order:

| extended as required to complete the evaluation, but NOT beyond the OEMC Task planned finish date (3/31/2010). |
|--|
| Please evaluate the OPEX in this Notification and determine if DCPP systems, structures, components, or processes are vulnerable to or otherwise impacted by the event or issue in this OPEX. Recommend corrective actions as warranted and obtain a manager concurrence in the OEMC Task for this Notification. If no action is required, please provide a brief basis for that conclusion. |
| The evaluation and corrective action recommendations should consider the following, if applicable based on the nature and scope of the OPEX: |
| 1) Should a plant system, structure, component (SSC) be evaluated to determine if there are any impacts to the intended design function, operability, or reliability? |
| 2) Should warehouse stock be inspected / restricted to assure that potentially defective or adversely impacted components are not installed? |
| 3) Should there be a restricted equipment list (REL) entry or revision to prevent future purchases or installation of deficient parts or materials (Ref AD9.ID9)? |
| 3) Do DCPP processes, procedures, or programs appropriately address the conditions, issues, and causes described and discussed in the OPEX? |
| 4) If current process barriers (above) are at risk for being removed or inappropriately modified in the future, should a procedure be revised with the necessary annotation to assure the barrier is retained? |
| 5) Does this OPEX warrant training? Does this OPEX need to be evaluated for inclusion in pre-job briefs, or refresher training program content (Ref. TQ2.ID5)? |
| This task should not be completed until the manager has concurred with the evaluation and recommendation and closed the OEMC Task for this Notification. |
| IF your evaluation determines that action is required, THEN: 1) Obtain manager concurrence (OEMC Task) |
| 2) Initiate a new notification to report that action is required to address the issue in this OPEX. Clearly indicate the Notification is for action resulting from the evaluation of OPEX. |
| |

| U-0 | | 50297724 Type: DN Work Type: EVAL OEA NEI 09-14, GL for Mgmt of Buried Piping |
|-------------|------------------------|--|
| | | 3) Provide a cross reference in the new notification to this notification number. |
| | | |
| | | 4) Include a cross reference herein to the new notification number. |
| | | 5) Close this OEFE task (after manager concurrence in the OEMC Task). |
| | | Please advise OEA if you initiate a new notification. |
| | | 02/10/2010 12:16:02 Lee F. Goyette (LFG1) Phone 805/545-6523 DCPP has been actively developing a buried piping program in response to 1) license extension requirements, and 2) the draft NEI 09-14. Activities have been underway for the past year, and include joint efforts with STARS. See 50286561 of 12/1/2009. Suggest 50297724 be closed and actions continue to be tracked on 50286561. |
| Task | (# 3 Mgr | concur: Eval of NEI 09-14 |
| Stat | us: TSCO | Task Completed |
| Code Gro | up: DG-OEA | Operating Experience Assessment |
| Task Co | de: OEMC | Manager Concur with Formal Eval |
| Responsit | ole: User Respo | nsible PXN2 Patrick T. Nugent 805/545-4701 |
| Work (| Ctr: ET | Manager - Eng Tech Supt- Nugent P - PXN2 |
| Created (| On: 09 Feb 10 | By: TCJ1 Thomas C. Joyce |
| Planned St | art: 09 Feb 10 | Planned Finish: 31 Mar 10 |
| Completed (| On: 31 Mar 10 1 | 7:36 By: NXJ1 Nozar Jahangir |
| | | 02/09/2010 06:27:03 Thomas C. Joyce (TCJ1) Phone 805/545-4139 In accordance with OM4.ID3, please provide your concurrence for: 1. The evaluation for the OPEX in this Notification (see OEFE Task). 2. The recommended action(s) in the OEFE Task, as applicable. |
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