November 26, 2004

Mr. Christopher M. Crane
President and Chief Nuclear Officer
Exelon Nuclear
Exelon Generation Company, LLC
Quad Cities Nuclear Power Station
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2

PROBLEM IDENTIFICATION AND RESOLUTION REPORT 05000254/2004011:

05000265/2004011

Dear Mr. Crane:

On October 29, 2004, the U.S. Nuclear Regulatory Commission (NRC) completed a team inspection at the Quad Cities Nuclear Power Station. The enclosed report documents the inspection results which were discussed on October 29, 2004, with you and members of your staff.

This inspection was an examination of activities conducted under your license as they relate to the identification and resolution of problems, compliance with the Commission's rules and regulations and with the conditions of your operating license. Within these areas, the inspection involved selected examination of procedures and representative records, observations of activities, and interviews with personnel. No findings were identified.

On the basis of the sample selected for review, the team concluded that in general, problems were being properly identified, evaluated, and corrected. While no findings were identified during the inspection, the team had several observations regarding the effectiveness of corrective action program implementation as detailed in the enclosed report.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public

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Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

Sincerely,

/RA/

Mark A. Ring, Chief Branch 1 Division of Reactor Projects

Docket Nos. 50-254; 50-265 License Nos. DPR-29; DPR-30

Enclosure: Inspection Report 05000254/2004011; 05000265/2004011

w/Attachment: Supplemental Information

cc w/encl: Site Vice President - Quad Cities Nuclear Power Station

Plant Manager - Quad Cities Nuclear Power Station

Regulatory Assurance Manager - Quad Cities Nuclear Power Station

Chief Operating Officer

Senior Vice President - Nuclear Services Senior Vice President - Mid-West Regional

Operating Group

Vice President - Mid-West Operations Support Vice President - Licensing and Regulatory Affairs

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Operating Group

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U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-254; 50-265 License Nos: DPR-29; DPR-30

Report No: 05000254/2004011; 05000265/2004011

Licensee: Exelon Nuclear

Facility: Quad Cities Nuclear Power Station, Units 1 and 2

Location: 22710 206th Avenue North

Cordova, IL 61242

Dates: October 18 through 29, 2004

Inspectors: G. Wright, Team Lead

K. Stoedter, Senior Resident Inspector, Quad Cities

C. Brown, Resident Inspector, Clinton

R. Ganser, IEMA, Quad Cities

Approved by: M. Ring, Chief

Branch 1

Division of Reactor Projects

SUMMARY OF FINDINGS

IR 05000254/2004011, 05000265/2004011; 10/18/2004 - 10/29/2004; Quad Cities Nuclear Power Station, Units 1 & 2; Problem Identification and Resolution Inspection

The inspection was conducted by one region-based inspector, two resident inspectors and an inspector from the Illinois Emergency Management Agency. No findings of significance were identified.

Identification and Resolution of Problems

In general, the licensee identified issues and entered them into the corrective action process at an appropriate level. Nuclear Oversight (NOS) assessment reports identified issues for the licensee to resolve, including issues with corrective action follow through and effectiveness. The majority of issues reviewed were properly categorized and evaluated. In general, corrective actions reviewed were appropriately implemented and appeared to have been effective. While no findings were identified during the inspection, the team developed a number of observations.

The team observed that many condition reports or issue reports were narrowly focused. Documentation was often weak, resulting in lack of ties between problem statements and corrective actions. The weak documentation also contributed to a lack of clarity on how the licensee arrived at corrective actions. Condition reports and assessments addressing maintenance rework or inadequate/ineffective corrective actions, did not routinely evaluate why the responsible organization had put ineffective actions in place. The team also observed that the threshold for identifying deficiencies on non-safety related systems may not be consistent with the system's contribution to the site's overall risk profile.

REPORT DETAILS

4. OTHER ACTIVITIES (OA)

4OA2 Problem Identification and Resolution

- .1 Effectiveness of Problem Identification
- a. Inspection Scope

The team reviewed selected documents generated over the past 2 years including: NRC inspection report findings, selected plant corrective action documents, and trend assessments to determine if problems were being identified at the proper threshold and entered into the corrective action process. The team also conducted a focused plant walkdown of the turbine building closed cooling water (TBCCW) system to ensure that equipment problems were entered into the corrective action system. The TBCCW system was selected due to its high risk significance. The walkdown represented one semiannual sample. The corrective action documents used during the reviews are listed in Attachment 1 and were selected from the following areas:

- 1) Human performance
- 2) Inadequate corrective actions
- 3) Rework
- 4) Operator workarounds
- 5) Operability evaluations
- 6) Configuration control
- 7) Operating experience
- 8) Root cause assessments
- 9) Common cause assessments
- 10) Apparent cause assessments
- 11) Issues generated during the last three refueling outages for each unit.

b. Observations

In general, the licensee identified issues and entered them into the corrective action program (CAP) at an appropriate level. The licensee appropriately used the CAP to document instances where previous corrective actions were ineffective or inappropriate. The team conducted a detailed walkdown of selected portions of the TBCCW system to assess the licensee identification and documentation of degraded conditions within the corrective action program.

b.1 Turbine Building Closed Cooling Water (TBCCW) System Walk Down

The team verified that major equipment issues identified in the system walk down, such as malfunctioning valves and pump leakage, were addressed within the licensee's corrective action program. However, the team identified a relatively high number of system material deficiencies that were not identified by the licensee. These included

numerous improperly secured piping supports, corrosion on system components and valves, and improper labels on air compressors. This indicated that the threshold for identifying deficient conditions was not as low as that given to a safety-related system with equal or lower risk significance. Subsequent to the walk down, the system engineer submitted issue reports (IRs) to address the team's concerns. The licensee initiated extent of condition walk downs to identify similar conditions and initiate the necessary corrective action.

b.2 Identification Threshold

From December 2002 until July 2004, the licensee's CAP allowed conditions adverse to quality to be documented in condition reports or maintenance work requests. In July 2004, the licensee implemented a new CAP which instituted the use of issue reports to document items adverse to quality or in need of repair. With the change, all activities are entered into the system as IRs. The IRs are reviewed daily by a team consisting of managers from the major departments. The licensee's review team, with input from the various organizations, determines which course the item will take (e.g., event report, work request). The number of condition reports in the previous CAP appeared to be appropriate for a dual unit site. The number of issues being generated in the new CAP has not stabilized; about 950 items were generated in September. The team's review of CRs generated under the previous program and a small sample of items from the current system, indicated that an adequate threshold had been established for documenting issues and an appropriate prioritization system had been used.

While the licensee appeared to appropriately identify most issues, the TBCCW walkdown identified a number of deficiencies. The individual deficiencies did not directly affect the operation of the system; however, they did indicate that the licensee's threshold for identifying and documenting deficiencies on the system may not be consistent with the systems risk importance. For example, the inspector identified a number of deficiencies with pipe supports, (e.g., lock nuts missing and loose fasteners).

In following up on the team's findings, a system engineer identified that responsibility for pipe supports had changed from a designated individual for all systems to each system engineer. The change was brought about by the elimination of the pipe support specialist position at the site.

b.3 Operating Experience

The team reviewed a sampling of industry operating experience (OPEX) reports and concluded that the licensee was appropriately including OPEX items in the corrective action program. The team identified one example where the licensee's corporate OPEX coordinator had not sent General Electric Service Information Letter (SIL) 448, Revision 2, to the site for review. The team reviewed the SIL revision and concluded that the information in the SIL had no impact on the current operation of equipment at Quad Cities. The licensee initiated IR 266809 to document the oversight by the corporate OPEX coordinator.

b.4 Identification of Issues Associated with Inadequate/Ineffective Corrective Actions or Maintenance Rework

The team reviewed a sample of IRs and CRs written for inadequate or ineffective corrective actions. In general, the licensee adequately addressed the technical issue, (i.e., the issue which had not been corrected by the original corrective action). However, in almost none of the cases did the licensee address why it had not corrected the problem the first time.

- CR 216467 "Ineffective ACE & ACIT Closure Problems": The CR appropriately addressed the specific issues addressed by the ACE (Apparent Cause Evaluation). The CR did not address why the organization developed an ineffective ACE. Additional discussions with the licensee identified they had assessed the cause of the problem and taken actions; however, none of that information had been included in the CR evaluation.

.2 Prioritization and Evaluation of Issues

a. Inspection Scope

The team conducted an independent assessment of the prioritization and evaluation of selected CRs generated after the 2002 problem identification and resolution inspection. The assessment included a review of the category assigned, the operability and reportability determinations, the extent of condition evaluations, the cause investigations, and the appropriateness of assigned corrective actions. Other attributes reviewed by the team included the quality of the licensee's condition trending and the corresponding corrective actions. In addition, one member of the team attended a management meeting to observe the licensee's assessment of IRs. This review included the controlling procedures and selected records of activities. In addition, the team conducted interviews with cognizant licensee personnel.

The team reviewed previous NRC inspection reports and associated corrective action documents to verify that identified issues were appropriately characterized and entered into the CAP.

The team likewise reviewed the licensee's efforts to capture industry operating experience (OPEX) issues in the CAP. Documents reviewed included the licensee's assessment of industry operating event reports, NRC, and vendor generic notices.

b. Observations

The team verified that, in general, issues reviewed through the CR/IR process were properly categorized and evaluated. However, the team had several observations regarding the quality of the evaluations as follows:

b.1 Overview of Prioritization and Evaluation Process

The team identified several items where narrowly focused assessments missed opportunities to identify broader causes and to determine complete corrective actions for specified causes. For example:

- CR 138696; "Low Pressure Coolant Injection Inoperable due to Failure to Reset Isolation Logic Following Surveillance Testing," dated January 9, 2003. This condition report was written when operations personnel discovered a residual heat removal valve which did not operate as expected during testing. The licensee determined that the valve did not operate as expected due to the presence of a Group II containment isolation signal which had not been reset during surveillance testing conducted on December 18, 2002. The failure to reset the containment isolation logic was caused by an inadequate procedural development and review process which did not ensure that a step to reset the logic was placed in the procedure before the procedure was issued for use. The corrective actions to prevent recurrence included reviewing the other logic tests to identify any similar discrepancies, revising any deficient procedures, and revising the applicable surveillance procedures to include visual verification that the logic had been reset. However, the corrective actions to prevent recurrence did not address the deficient procedural development and review process.
- CR 154716; "Valve 2-1001-43A will not Open from the Control Room," dated April 24, 2003, and CR 169407; "Troubleshooting of Valve 2-1001-43A Should Have Been Better Documented," dated July 29, 2003. Condition Report 154716 was initiated when shutdown cooling suction valve 2-1001-43A could not be opened from the control room. The team reviewed this condition report and identified several examples where the licensee had failed to follow procedure (see the Non-Cited Violation documented in Inspection Report 50-254/2003009; 50-265/203009). These failures resulted in several human performance issues including failing to initiate a work request when required, performance of troubleshooting activities before developing a formal troubleshooting plan, use of repetitive cycling to resolve equipment deficiencies, and using equipment cycling results as a basis for continued operability. In addition, the team identified that even though CR 154716 had received numerous supervisory reviews, no one had recognized that the root cause of the valve's failure to stroke had not been addressed. The team reviewed the licensee's corrective actions for this issue and found that the actions were very narrowly focused. Specifically, the licensee addressed the deficiencies in the work request and troubleshooting plan initiation by conducting additional training. However, none of the other deficiencies documented in the inspection report were addressed.
- CR 130676, "1B Fuel Pool Pump Failure to Start." The CR documented a problem where a fuel pool pump failed to start. An associated work request (WR) identified that the pump had not been properly wired. The WR & CR resulted in the wiring being corrected; however, it did not address why the pump

wasn't tested after the activities which had resulted in the errant wiring. IR 266075 was written to follow up on this issue.

- CR 166557, "HPCI MO 2-2301-03 valve possible leak by." The CR identified that a high pressure coolant injection (HPCI) steam valve was leaking into the HPCI room sump. The evaluation of possible leakpaths through the valve documented on the CR was very good. The CR stated that the sump high level alarms were coming in once to twice per day; however, no further evaluation was performed. In response to the team's questions, the licensee determined that the normal frequency of the alarm was once every 3 to 4 days, this indicated that the operators missed an opportunity to identify the leakage 2 to 3 days earlier. The operators did verify that the alarm cleared within an appropriate amount of time, but did not send anyone to investigate the situation. The HPCI steam valve has had a history of leakage which may have desensitized the operators to the alarm.
- IR 143666. "White residue found at 480V MCCs aux contacts." The IR documented potential dried grease on CR105X auxiliary contacts. The extent of condition investigation found similar white powdery residue on 22 additional auxiliary contact assemblies. Appropriate actions were taken to correct the identified conditions and a preventive maintenance activity to grease the auxiliary contact assemblies was established. However, the team noted that the periodicity of the preventive maintenance activity was 6 years when one of the auxiliary contact assemblies (CR-143005, ECCS Keep Fill Pump motor unexpectedly shut off) had failed after only 4 years of operation. When the team questioned the appropriateness of the 6 year periodicity, the licensee stated that the period was in accordance with industry guidance for critical breakers and that the dried powder was a precursor to dried grease and did not indicate that binding was imminent. The licensee also noted that the corrective actions were being monitored under the licensee's SHIP [system health indicator program] actions. The licensee did not directly address the failure of the one breaker in evaluating its surveillance periodicity.
- CR 132397, "Failed Time Delay Relay." On April 5, 2001, the under voltage permissive time delay relay for the emergency diesel generator loading onto 4kV Bus 24-1 failed routine bench calibration check following removal from its installed location. The calibration check was performed to confirm proper relay timing and operation before operations surveillance QCOS 6500-10. The team reviewed the operability evaluation for CR 132397 and the root cause report, CR Q2001-01049, for the cause of the relay failure. The team found the root cause investigation to be very comprehensive. The documentation detailed an excellent case for an improper solder joint which allowed slight wire movement causing electrical discontinuity as the failure mechanism. However, the operability evaluation for CR 132397 was not as thorough.

The operability evaluation appeared to default to the possibility that removing the relay for bench testing caused the relay coil wire to be moved, resulting in the relay's failure. While the team concluded that the licensee's assessment was plausible, the team was unable to identify where the licensee had considered and investigated other possibilities (e.g., work in the cabinet during routine system maintenance activities, that could have caused the relay to fail). The lack of a thorough assessment of alternative causes for the relay's failure, reduced the team's confidence that the relay had been operable prior to its removal from the circuit. Despite the lack of a convincing case that the relay had not failed while in-service, the team could not positively conclude that the operability evaluation was incorrect — only that it was based on weak logic and a possible scenario for the time of failure. The team noted that the relay was replaced immediately after it was discovered to be failed and the operability surveillance test successfully completed.

The team also identified an oversight in the licensee's evaluation process for addressing items identified by the NRC as Non-Cited Violations. The NRC's Enforcement Manual indicates that a Severity Level IV violation can be dispositioned as a Non-Cited Violation as long as the licensee has placed the violation into their corrective action program to address recurrence. The Enforcement Manual also states for Non-Cited Violations: "At the time a violation is closed in an inspection report, the licensee may not have...begun the process to identify the root cause and develop action to prevent recurrence." The team identified that the licensee's corrective actions for Non-Cited Violations were generally appropriate. However, the licensee's CAP procedure does not include steps to ensure that the root cause of each Non-Cited Violation was identified and that corrective actions to prevent recurrence were implemented. The licensee initiated IR 268389 to address this oversight.

b.2 Trending Program

The team reviewed how the licensee's trending activities, noted below, interfaced with the CAP

Component Maintenance Optimization
Corrective Maintenance Unexpected
Maintenance Rule
Equipment Reliability
System Health Indicator Program
Component Health Indicator Program
Instrument Trending

The team also observed use of the engineering work station program used by system engineering to monitor system performance. The Engineering Work Station program gathered information from a number of sources including the plant computer and non-licensed operator rounds for evaluation by the system engineer. The system also allowed the engineer to input values or formulas with provisions for notifying the engineer when the specified conditions have been met or exceeded. This feature

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allowed for almost real-time monitoring of system parameters. The program also allowed the engineers at all Exelon sites to share information with their counterparts.

The team noted good coordination between the various trending programs and the CAP. However, the team also noted that the trending program relies on individuals to identify the trends, with the computers only holding and sorting the information. With the exception of the Engineering Work Station program, noted above, the licensee did not use computers to flag potential trends or problems.

The team performed an in-depth examination of the licensee's instrument set-point and calibration trending program as a follow-on to an observation made in the previous problem identification and resolution inspection. The team found that the licensee had corrected the difficulty in trending instrument performance, specifically, the current data base was comprehensive and was reviewed quarterly for any developing trends. The team noted one possible weakness in that the initial CR, where a trend was noted, was closed separately from an additional CR initiated to identify the trend. The team noted that a more clearly defined documentation trail would have the trend tracked as a corrective action to the initial CR. On October 29, 2004, the licensee initiated IR 268311, "Possible Enhancement to IR Processing," to assess the trend identification process

.3 <u>Effectiveness of Corrective Action</u>

a. Inspection Scope

The team reviewed past inspection results, selected CRs, root cause reports, and common cause evaluations to verify that corrective actions, commensurate with the safety significance of the issues, were specified and implemented in a timely manner. The team evaluated the effectiveness of corrective actions. The team also reviewed the licensee's corrective actions for Non-Cited Violations (NCVs) documented in NRC inspections in the past 2 years.

b. Observations

In general, the licensee's corrective actions for the sample reviewed were appropriate and appeared to have been effective. The team noted that the licensee appropriately used the CAP to document instances where previous corrective actions were ineffective or inappropriate.

.4 Documentation

a. Inspection Scope:

The team independently assessed the thoroughness of the licensee's documentation to determine whether the documents could stand on their own or required additional inputs. If additional information was necessary, the team also assessed the availability of the information.

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b. Observations

In general, the team found the licensee's documentation practices associated with the corrective action program to be weak.

- b.1 In several instances, the team was only able to successfully understand the licensee's actions because key individuals recalled details of what had occurred and, more important, why it occurred. The team noted that this documentation weakness left the licensee vulnerable to the loss of key information. For example:
 - OPEX Item 171244 was initiated to perform a review of NRC Information Notice 2002-29, "Design Problems in Safety Functions of Pneumatic Systems." The licensee's review stated that no actions were needed as the information in the notice was similar to that included in Generic Letter 88-14, "Instrument Air Supply Problems Affecting Safety-Related Equipment." While this was true, it was not apparent that the licensee considered physical or operational changes in the pneumatic systems between 1988 and 2002 which could have resulted in the information included in Information Notice 2002-29 having increased applicability at the station. The team discussed this OPEX item with the responsible engineering personnel and found that a full review of pneumatic system performance had been performed. However, this review was not documented.
 - CR 144464, "Concerns with CAPR closure and EFR for ECCS venting." While containing valuable information, the CR did not identify clearly what the inadequacies were, what the procedural changes were, or how the corrective actions addressed the inadequacies. Initial discussions with the licensee identified they were unable to address the deficiencies. The team's questions were appropriately addressed only after a discussion with the individual who wrote the document.
 - A number of CRs (e.g., 161395, 171039, 175517, 183316) identified inadequate assessments or evaluations and indicated that the evaluation had been returned to the originator along with comments. The CRs neither itemized the specific problems with the documents nor addressed the cause for the deficiencies. Without detailed information in the CR, it is difficult to identify whether CAs were being effective or if repeat failures were continuing to occur.
- b.2 The team also identified a number of CRs involving human performance where from the documentation, it did not appear that the individual had been interviewed regarding the error. The failure to interview individuals associated with issues limits an assessment's ability to identify broader corrective actions.
 - CR 158648 "1/2-5599-Y valve operator air supply hooked up in reverse." The CR documented what had occurred and evaluated the extent of condition. The CR did not identify whether the mechanics who connected the air lines backwards had been interviewed. Further, the CR did not address potential knowledge deficiencies which may have led to the problem. In answering the

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team's questions, the licensee indicated that potential knowledge deficiencies were addressed in a subsequent CR written on a similar performance error.

.5 Safety-Conscious Work Environment (SCWE) Assessment

a. Inspection Scope

The team conducted interviews with plant staff to assess whether there were impediments to the establishment of a SCWE. During the interviews, the team used Appendix 1 to Inspection Procedure 71152, "Suggested Questions for Use in Discussions with Licensee Individuals Concerning PI&R Issues," as a guide to gather information and develop insights. The team also discussed the implementation of the Employee Concerns Program (ECP) with the plant's ECP Coordinator.

b. Observations

Plant staff interviewed did not express any concerns regarding the safety conscious work environment. The staff was aware of and generally familiar with the corrective action program. During the interviews, the team found that the plant staff was generally unfamiliar with the process to use for initiating an anonymous issue report. However, the plant staff felt that the option of anonymous issue reports was not needed since they were comfortable documenting potential safety issues. The licensee staff's unfamiliarity with anonymous issue reports was provided to licensee management for information. The licensee initiated IR 267841 on this issue and provided a site-wide communication to ensure that everyone was knowledgeable on the methods available to generate anonymous issue reports.

None of the individuals interviewed expressed any reluctance to identify plant safety issues. However, only a few of the people interviewed readily identified the use of the Employee Concerns Program as an alternative method for raising a concern. While most individuals favored the ease of use of the new system, some individuals indicated they were not adept at using the computer system to initiate an item into the corrective action program. In all cases, these workers stated that they would ask for assistance in initiating an IR. None of the workers interviewed appeared reluctant to identify safety issues or bring them to the attention of the NRC if they felt it was necessary. They did say they would go through their supervisor first and use the alternate methods if they needed to do so.

4OA6 Management Meetings

.1 Exit Meeting Summary

The team presented the inspection results to Mr. R. Gideon and other members of licensee management in an exit meeting on October 29, 2004. The licensee acknowledged the observations presented and indicated that no proprietary information was provided to the team.

ATTACHMENT: SUPPLEMENTAL INFORMATION

Individuals Contacted

Licensee:

J. Bartlet Operations Training Manager
W. Beck Regulatory Assurance Manager
T. Bell On Line Work Center Manager

D. Craddick Electrical Maintenance Superintendent

T. Fuhs Regulatory Assurance

R. Gideon Plant Manager

D. Hieggelke Nuclear Oversight Manager

D. Kallenbach
J. O'Neil
Radiation Protection Superintendent
Corrective Action Program Manager

M. Perito QC/Operations Manager

C. VanDenburgh Engineering

NRC:

M. Kurth NRC Quad Cities Resident Inspector

Acronyms Used in the Report

ACE Apparent Cause Evaluation

ACIT Action Item

CAPR Corrective Action to Prevent Recurrence

CFR Code of Federal Regulations

CR Condition Report

DRP Division of Reactor Projects
ECCS Emergency Core Cooling System
ECP Employee Concerns Program

EFR Effectiveness Review

HPCI High Pressure Coolant Injection

IEMA Illinois Emergency Management Agency

IR Issue Report
NCV Non-cited violation
OPEX Operating Experience

SCWE Safety Conscious Work Environment

SIL Service Information Letter

TBCCW Turbine Building Closed Cooling Water

Documents Reviewed

Human Performance Related Condition Reports

Ar Number	Ar Subject C	rigination Date
00134002	MRule: ECCS Room Coolers	20021204
00134318	Improper respirator installed in SCBA used for fire drill	20021206
00135466	Vibration of Steam lines may risk test tap line to break	20021212
00136195	IMPROPER USE OF BOUNDING FOR 1A RHR HX	
	OPEVAL ISSUE	20021217
	Late CR initiation to evaluate U1 HPCI venting results	20021220
00137396	Sheet Metal Screw Installation Causes Electrical Arc	20021227
00140164	Valve Found Already Closed And Tagged During C/O	20020440
00141008	First Hang Component on action for On Eval 105454 08 not	20030119
00141006	Compensatory action for Op Eval 105454-08 not implemented	20030124
00144309	Due date of PMID 33784-01 beyond interval for late	20030124
00144005	due date	20030212
00145840	Air Supply to Regulator for AOV 2-3507-A Isolated	20030223
00147691	Failed PMT for New Valve	20030306
00150278	Inadvertent RCIC Trip Throttle Valve trip & unplanned LCC	
00151852	Unit One Emergency Diesel Generator Trip Checks	20030401
00152430	Operability Determination Actions Inappropriately Closed	20030404
00156029	2Bcrd motor oil drain plug found loose on running pump	20030428
00158648	1/2-5599-Y valve operator air supply hooked up in reverse	
00164026	"B" Core Spray Loop Air venting investigation results	20030619
00164221	3-VALVE MANIFOLD MISPOSITION	20030620
00164355	Wrong valve opened when recircing 2B Cond Phase	2002002
00181083	Separator	20030622 20031015
00181083	Improper Verification Practices Apparent incorrect pressure indicator calibrated.	20031015
00102011	Orifice plates for RO and FE installed reversed (EC24429	
00201012	Venture electricians working on equipment not out	20040211
00202221	of service	20040217
00205444	NOS ID'd equipment staged in electrical cabinet	20040302
00205639	Potential containment breach	20040302
00205695	Contractor Tools Stored in Electrical Panel (Q2R17 OLL)	20040303
00205740	EC# 24553 Components Not Installed Per Approved	
	Design	20040303
00206505	Water pressure encountered when unbolting north	
	H2 cooler	20040305
	RV 2-3607 Leaks 60 dpm After System Placed In Service	20040319
	Inoperable CRD Accumulator During Scram Timing	20040326
	HCU 22-15 113 valve found out of position	20040329
00211881	Rework - CS Rm Cooler Temp Switch cal'd to	00040000
00011060	Incorrect data	20040330
00211966 00221700	Hand Tools Found Stuffed in Cable Tray Red Window in Engineering Technical Rigor Fundamenta	20040331
00221700	Thea williams in Engineering Technical Rigor Fundamenta	20040317

00223488 00225847 00256816	Appendix R Not Addressed in OpEval 220863 FME In Electrical Cabinets North Main Control Room Door #329 Difficulties Closing	20040525 20040604 20040925
Root and	Common Cause Analyses	
00138696	2-1001-29A immediately reclosed when opened	20020100
00420727	during testing	20030109
	Flammables not being properly stored Leak in line 1-1043B-14"-L Approx 1 Gal per Minute	20030109 20030114
	NOS identified apparent trends in RCR themes	20030114
	Unit One Emergency Diesel Generator Trip Checks	20030123
	Challenges to Radwaste shipping activities	20030403
	Two Corrective Actions Not Entered for CR 152884	20030514
	Pressure boundry leakage from 2" Rx head vent line	20030520
	Inability to cool upper elevations for Rx disassembly	20030521
	FP DRILL PERFORMANCE DEFICIENCIES	20030605
00162743	Dresden CAPCo Identifies Adverse Trend in EPU	
	Modifications	20030611
	"B" Core Spray Loop Air venting investigation results	20030619
	MSL hi flow instrument drift - reportable	20030804
	Trend of CR's dealing with reactor pressure >1005 psig	20030805
	Review of July CAP data identifies a potential trend	20030820
	Review of Chemistry CAP data identifies a potential trend	20031006
	Security Safety FASA Recommendations	20031015
	Improper Verification Practices CCA needed for External Identified CRs	20031015 20040123
	INOP D/W Rad Monitor due to BAD SOLDER JOINT ON	20040123
00130137	RIS 2-2419-A	20040129
00202476	Human performance errors	20040218
	Q2R17 OLL U-2 Refuel Bridge experienced "Hoist Tube	
	Hangup"	20040312
00209752	Site CR Trending CC Document Quality as Issue	20040321
00211724	Unexpected U2 reactor scram during turbine weekly testing	20040330
00216684	Untimely Initiation of Condition Reports by Engineering	20040423
	Common Cause for SRM/IRM outage problems	20040426
	Initiate Planned CCA for Unplanned Modification Revisions	
	OOT, DPIS 1-0261-2M, TREND CODE B2	20040713
00240264	Ineffective CAPR For Main Steam Line Flow Switch	
0004040	Root Cause	20040730
	OOT, 1-263-111A, 1-263-111C, TREND CODE B2	20040730
00243058	Operations Human Error Prevention Fundamental Id'd	20040040
00055705	As Yellow	20040810
00200735	E-3 Walk Down Identified Additional Parts Required.	20040922

Operating Experience Condition Reports

	GE SIL 646 Target Rock SRV failed to fully open GE SC 03-01, Additional material concerns for TIP valve	20021220
	qualification	20030128
	Complete SOER 2002-03 Recommendations	20030220
00148037	NER DR-03-001, Rev1, High Flow Control Line After	
00454777	Load Drop	20030307
	GE SIL 448R1 GE AK/AKR breaker lube OPEX	20030401
	NER KS-03-006, Corrective actions for 2002 plant events	20030430
	NRC GL 2003-01, Control Room Habitability, OPEX NER QC-03-047, Inadvertent Opening of PORV and	20030625
00100022	Manual Scram	20030722
00171244	NRC IN2002-29 Des Problems in Sfty Functions of	20000122
00171211	Pneu Sys	20030812
00171258	NRC IN2002-34 Fail Of Sfty-Related Circ Break Aux Switch	
	NER KS-03-016 Red, Scram Due To Inadequate SSPV	
	Disposition	20030909
	SME Review Of NER DR 03-096, MOV Stroke Time Issues	20030916
00179572	NRC, IN 2003-18, GE SBM Control Switches W/Defective	
	Cam	20031006
00200024	NER DR-04-006 Red U3 Reactor Scram- Turbine Oil	0004000
0000000	Cooler Trsfr	20040206
	SER 6-03 Cooling Water System Debris Intrusion	20040211
00202720	Sme Review Of Ner Dr-04-009, Water In Hpci Steam Line /Scram	20040219
00210125	Sme Review Of Oe-18201, Hydrogen Found In Srv	20040219
00219125	. , ,	20040506
	Downcomers	20040506 20040609
00227149	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover	20040506 20040609
00227149	Downcomers	
00227149	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By	20040609
00227149 00254371	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By	20040609
00227149 00254371 NRC Item	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports	20040609
00227149 00254371 NRC Item	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent	20040609 20040918
00227149 00254371 NRC Item 00205862	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr.	20040609
00227149 00254371 NRC Item 00205862	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI	20040609 20040918
00227149 00254371 NRC Item 00205862 00222870	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr.	20040609 20040918 20040303
00227149 00254371 NRC Item 00205862 00222870 00182811	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running	20040609 20040918 20040303 20040521 20031024
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line	20040609 20040918 20040303 20040521 20031024 20040303 20040526
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815 00167725	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line Missed Opportunity - Corrective Action Program	20040609 20040918 20040303 20040521 20040303 20040526 20030715
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815 00167725 00171034	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line Missed Opportunity - Corrective Action Program Past Operability not Addressed for 1B RHRSW Pump Leak	20040609 20040918 20040303 20040521 20040303 20040526 20030715
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815 00167725 00171034	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line Missed Opportunity - Corrective Action Program Past Operability not Addressed for 1B RHRSW Pump Leak Cable Tabulation Dwgs contain Incorrect Service	20040609 20040918 20040303 20040521 20031024 20040303 20040526 20030715 20030811
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815 00167725 00171034 00181040	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line Missed Opportunity - Corrective Action Program Past Operability not Addressed for 1B RHRSW Pump Leak Cable Tabulation Dwgs contain Incorrect Service Description	20040609 20040918 20040303 20040521 20031024 20040303 20040526 20030715 20030811 20031015
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815 00167725 00171034 00181040 00182702	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line Missed Opportunity - Corrective Action Program Past Operability not Addressed for 1B RHRSW Pump Leak Cable Tabulation Dwgs contain Incorrect Service Description Deficiency Identified in Calculation QDC-0000-E-0853, R/0	20040609 20040918 20040303 20040521 20031024 20040303 20040526 20030715 20031015 20031024
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815 00167725 00171034 00181040 00182702 00185418	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line Missed Opportunity - Corrective Action Program Past Operability not Addressed for 1B RHRSW Pump Leak Cable Tabulation Dwgs contain Incorrect Service Description Deficiency Identified in Calculation QDC-0000-E-0853, R/0 Flood Protection Alarm PM Review is Needed	20040609 20040918 20040303 20040521 20031024 20040303 20040526 20030715 20030811 20031015
00227149 00254371 NRC Item 00205862 00222870 00182811 00205892 00223815 00167725 00171034 00181040 00182702 00185418	Downcomers INPO SEN 249 Worker Injured Removing Water Box Cover NER LI-04-067 Red Unit 1 Thermal Power Exceeded By .24 percent Related Condition Reports Wrong oil in the 2A Core Spray motor upper and lower resrvr. SSDR not updated with max. torus temp. with HPCI running Apparent incorrect pressure indicator calibrated. Wrong oil in the 2B Core Spray motor upper and lower rsrvr (SSDI) Potential to Drain the Torus on Failure of RCIC Line Missed Opportunity - Corrective Action Program Past Operability not Addressed for 1B RHRSW Pump Leak Cable Tabulation Dwgs contain Incorrect Service Description Deficiency Identified in Calculation QDC-0000-E-0853, R/0	20040609 20040918 20040303 20040521 20031024 20040303 20040526 20030715 20031015 20031024

00190069 1A RHR HX Repair Not Included in the Sec. XI R/R Prog. 00190175 RHRSW Pump Cubicle Cooler tube plugging limit in UFSAF 00200169 CCST Heatersuse of increased monitoring as	20031210 R 20031211
compensatory ac	20040206
00205146 Load rating for Hoist found greater than support structure. 00220295 QCOA 1300-02 Has Error for Maintaining	20040301
RCIC = 400gpm</td <td>20040511</td>	20040511
00220460 SSDI Walkdown Identified Incorrect TOL Setting	20040512
00220546 Operations Procedures lists old ITS limits for Rx Lo-Lo Lvl	20040512
00220748 Cal QDC-1300-E-021 apparent omission	20040513
00221078 RCIC Operation w/ App R torus pressure not well	
documented	20040514
00222543 SSMP Motor Start Limitations	20040520
00222713 SSDI Issue RCIC Operation During an Appendix R Fire	20040521
00223638 SSDI RCIC/CS Rm Temp Switch Locations Do Not	20010021
Match UFSAR	20040525
00224355 Wrong Vendor letter used for engineering reference	20040528
00243264 Non-conservative technical specifications requirement	20040810
00247298 Error Discovered In SRV Discharge Flange Calculation	20040815
00254931 Qcos 5750-04 Test Acceptance Criteria	20040823
00254931 Qcos 3750-04 Test Acceptance Criteria 00254936 Maintenance Procedures Lack Some Acceptance Criteria	20040920
·	20040920
00194680 Identifying Non-Conservative Technical Specifications	20040112
Configuration Control Condition Reports	
00124955 Food Water Dump Low Suction Proceure	
00 134033 FEED Water Fullib LOW Suction Flessure	20021210
00134855 Feed Water Pump Low Suction Pressure 00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For	20021210
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For	20021210
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating	20021216
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head	20021216 20030213
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing	20021216 20030213 20030224
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks	20021216 20030213 20030224 20030401
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms	20021216 20030213 20030224
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In	20021216 20030213 20030224 20030401 20030423
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport	20021216 20030213 20030224 20030401 20030423 20030424
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu	20021216 20030213 20030224 20030401 20030423 20030424 20030507
 00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated	20021216 20030213 20030224 20030401 20030423 20030424 20030507
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512 20030525
 00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512 20030525 20030529
 00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU Modifications 	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512 20030525
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU Modifications 00163226 Station Vent System Controlled Drawings Need Major	20021216 20030213 20030224 20030401 20030423 20030527 g 20030512 20030525 20030529 20030611
 00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU Modifications 00163226 Station Vent System Controlled Drawings Need Major Revision 	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512 20030525 20030529 20030611 20030613
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU Modifications 00163226 Station Vent System Controlled Drawings Need Major Revision 00166134 FASA Supplement - Permanent Plant Modification	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512 20030525 20030529 20030611 20030613 20030703
 00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU Modifications 00163226 Station Vent System Controlled Drawings Need Major Revision 00166134 FASA Supplement - Permanent Plant Modification 00167422 Offgas Glycol System Discrepancies 	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512 20030529 20030611 20030613 20030703 20030714
00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU Modifications 00163226 Station Vent System Controlled Drawings Need Major Revision 00166134 FASA Supplement - Permanent Plant Modification 00167422 Offgas Glycol System Discrepancies 00175380 Piping Clamps Missing From Various Crd System Pipes.	20021216 20030213 20030224 20030401 20030423 20030527 g 20030512 20030525 20030529 20030611 20030613 20030703 20030714 20030911
 00135995 Bkr For Mcc 27-1 Cub F1 Found To Be Wrong Size For Application 00144400 Fit-Up Anomalies Id'd For 1a Rhr Ht Exchanger Floating Head 00145867 Valve 1-4799-824 Not Installed Per Drawing 00151852 Unit One Emergency Diesel Generator Trip Checks 00155349 Received RFP Suction Low Pressure Alarms 00155624 Several Hundred Calculation Revisions "Inprog" In Passport 00157697 Qcop 6000-4 Not Revised Post Epu 00158439 Insufficient Oil Placed Into 2a Serv Wtr Motor Upper Bearin 00160467 3c ERV Pilot Valve Independently Cycles When Operated 00161015 QCOP 5600-04 Not Revised For Unit 1 Epu Conditions 00162743 Dresden CAPCO Identifies Adverse Trend In EPU Modifications 00163226 Station Vent System Controlled Drawings Need Major Revision 00166134 FASA Supplement - Permanent Plant Modification 00167422 Offgas Glycol System Discrepancies 	20021216 20030213 20030224 20030401 20030423 20030424 20030507 g 20030512 20030529 20030611 20030613 20030703 20030714

	HRSS Line Broken Loose From Pipe Hangers. Fw Discharge Pipe Hanger Fastener Falls To Floor In	20031026
00187652	Rfp Room Classification Change From Non-Safety To Safety-Related	20031103 20031121
	Ec 337692 Specified Torque Valves Exceeded Yield Of	
00188306	U-Bolt Inadequate Input Verification For Calculation Qc-10q-301	20031126 20031126
	New XI-3 System Is Safety Hazard.	20031120
00190175	RHRSW Pump Cubicle Cooler Tube Plugging Limit In	00004044
00104651	UFSAR EC 341397 Scope Increase Due To Voltage Drop Concerns	20031211
	Incorrect Trip Settings For Epn 2-6900-26-2b	20040112
	GE Identifies Potential HPCI Design Issues	20040121
	Irregularities While Performing Ec 341370	20040211
	Rx Vessel Bottom Drain Temperature Continuing Trend	20040210
	Existing Overload Heater Size Do Not Match Drawing.	20040304
	EC 24424 Requires Revision For The Unit 2 Edg	20040312
	Unplanned Revisions To Ec 23918 Ups/Battery Room Hvac Print 4e-2679f Shows The Wrong Size Transformer	20040419
	In MCC 29-2	20040503
00219901	Dwgs Identify Ss Piping Replacements Never Installed	20040510
00221865	Pressure/Temperature Curves Non-Conservative	20040518
00222787	Initiate Planned Cca For Unplanned Modification Revisions	20040521
00231212	Nrc Uri 04-002-01 Concerning Mssv Setpoint Drift	20040624
	Pipe Support Clamp On Sw Line To 1-5746-A With No	
	Hangar Att	20040701
00234471	"As Found" Circuit Breaker Size Does Not Match	
	Plant Drawing	20040708
00236208	Potential Breaker Sizing Issue In Cubicle	20040715
	Ec Eval. 347941 Used To Implement A Configuration	
00007004	Change	20040719
00237204	System Function Changed Without 50.59 Screening	20040740
00230516	Review Power Changes Due To Which Feedwater Pumps	20040719
00233310	(Rfp) Are Running	20040728
00230545	Im Work Order 00584879-01 Cancelled In Error.	20040728
	Pm Completed On Breaker 603 Instead Of	20040720
00240012	Breaker 607	20040818
00247373	Fail Open Valve Installed Instead Of A Fail Close	20040010
00247070	Valve.	20040825
Rework C	ondition Reports	
00149922	Gross EHC leak during attempt to return 2A EHC	0000000
0040000	pump	20030320
	1-0203-3D steam leak at flange	20031112
	Wrong Splice Kits Installed on 250V Cables	20021118
	Failed PMT for New Valve	20030306
00160405	PMT Failure on WO579144-01	20030524

00166787 Unit 1 CIV #3 EHC leak 00169754 Reactor level indication 00172229 Failed Pmt For WO #586281 (2-3201-A 2A	20030709 20030731
RFP Min Flow) 00182424 Torus High Level Switches 00196997 OOT, (LT 1-1641-5A) Trend Code =B4 00201012 Orifice plates for RO and FE installed	20030819 20031022 20040122
reversed (EC24429) 00216730 Water in sensing lines (rework) 00130676 1B Fuel Pool pump failed to start. 00132857 Oil Mist From Concrete Piping	20040211 20040423 20021107
Repair To Ground 00135932 Flow blockage in NORMAL lineup for Gen Thermal Gas Analyzer	20021122 20021216
00139873 Failed PMT for Work Order 98131574 00154484 Auto Start Relay (ASR) for ½ EDG Lost Continuity 00158353 High vibration on the OV2 Fan due to bearing degradation 00183900 Wrong parts reserved for valve overhaul	20030117 20030417 20030512 20031030
Operations Configuration Control & Closed Level 1 & 2 CRs	
00126235 RHR logic electric lead disconnected 00137908 2A Recirc MG set scoop tube inadvertent reset 00138149 H2/ O2 Monitor System Control Switch Found in OFF	20021007 20030102
Position 00140164 Valve Found Already Closed And Tagged During C/O First	20030105
Hang 00150278 Inadvertent RCIC Trip Throttle Valve trip & unplanned LCO 00151220 Valve position differences between QOM, procedure and	20030119 20030322
P&ID 00159607 Pressure boundary leakage from 2" Rx head vent line 00161345 CAM System Alarms 00211163 Inoperable CRD Accumulator During Scram Timing 00218906 Discovered 1-1901-12, Fuel Pool Gate Drain VIv Close	20030328 20030520 20030531 20040326 20040505
Operator Work Arounds	
00227718 Review RCIC system Design and Licensing Basis 00146146 Rising offgas levels unit 1 00133579 1B1 heater normal LCV tripping due to Flash Tank high	20040611 20030225
level 00136806 2A MSDT level indication (LI 2-3541-59A) is pegged high. 00141665 SJAE Rad Monitors elevated (Ref. CR 146146) 00076147 Q2001-02891 - System modification creates excess entries 00102082 Low Flow Feedwater Reg Oscillations 00129665 2B3 Heater Trip 00138067 CNMT H2/O2 MON Torus Sample Line Heat Trace	20021201 20021219 20030129 20010917 20020403 20021031
Temperature 00156214 Offgas Sample parameters > Action Lvl One for Failed Fuel	20030103 20030428

00193417 00207287 00101668 00131422 00142151 00142500 00148161 00148469 00193621 00210224	1B RR MG Set Voltage Regulator Volts/Hertz Rework on FT 0-7541-1B, continues to act erractic Toxic Gas Analyzer false high concentration inops CREVs U-2 Digital FWLC response during shutdown Service Air Back-Up Valve Auto Open Low Flow FRV oscillations Feedwater Low Flow Feed Regulator valve Low flow frv cable loose causing erratic operation of valve NOS ID'd no CRs written for frequent alarms from HCU 26-39 CCST Heaters Reliability OOT, (0-7541-1B), TREND CODE = (B3)	20030601 20040105 20040310 20020330 20021113 20030130 20030201 20030308 20030311 20040106 20040323		
Operabilit	Owa Review For Defeating Rcic Suction VIv Swap Logic v CRs	20040813		
-				
	Agastat Time-Delay Relays -Coil Lead Solder Connection Issue CNMT H2/O2 MON Torus Sample Line Heat Trace	20021120		
00100007	Temperature	20030103		
	White residue found at 480V MCCs aux contacts Moore Type SCT signal converters/isolators design	20030209		
	problem	20030307		
	Potentially non-conservative pressure temperature curves (SSDI) Potential to Drain the Torus on Failure of RCIC Line	20031003 20040526		
	Installed Transformer Does Not Match Print #4e-1438j	20040320		
00105454	GE Part 21 Notification SC 02-05	20020426		
	Missing bolt on cplg guard	20021007		
	1-1001-43A follow up to CR 159693	20030521		
00186375	Main Steam SRVDL Flange Rating Lower Than	00004440		
00221965	Max Pressure Pressure/Temperature Curves Non-Conservative	20031113 20040518		
	Failure of 1-1001-43A to fully stroke	20040518		
Outage Related CRs				
00095024	LLRT on 2-0220-1 valve exceeded its Required Action limit	20020213		
00094984	LLRT,MSIV exceeded the allowable leakage limit of < 46 scfh	20020213		
00095044	LLRT on 2-0220-2 valve exceeded its admin Alarm Limit	20020213		
	Unplanned TS Entry, CREVs Inop	20040317		
	Deficiencies in DG2 PT compt of aux cubicle at Bus 24-1	20020228		
	EHC Discharge pressure switch OOT	20020215		
	Out of tolerance Line 2-3009A-1" as-found wall thickness below	20020217		
00000004	minimum wall.	20020217		
00095557	LLRT Failed on valve 2-1301-64, would not hold pressure.			

00095798 Bus 24-	1 UV relay found Out of Tolerance	20020219
	45 failed leak test QCOS 2300-19.	20020220
00096226 LLRT or	n 2599-4B exceeded its Admin Limit	20020221
00096239 LLRT or	n 2-2599-5A exceeded its Administrative limit	20020221
	1-1459B out of tolerance while performing	
qcis 140	· · · · · · · · · · · · · · · · · · ·	20020304
	#6, TB #3 has Multiple Discrepancies	20040225
	elay 2-6701-21-1 (AC)	20040227
	elay 2-6701-21-1 (AD)	20040227
00201700 001,10 00205670 Bus 26	4kV Feed Breaker "A" phase relay OOT	20040303
	D 2B switch out of tech spec allowable value	20040303
	4kV Feed Breaker "C" phase relay OOT	20040303
	oose wire in plug for drywell rad monitor 2-2419B.	20040303
	oose wife in plug for dryweir rad monitor 2-24 195.	20040310
00208197 TH Tub 00208205 LPRM 4		20040313
	56-25D failed downscale	20040313
	Rad Monitor 2-2419B Reading Downscale	20040317
Q1998-04844	Discovered localized wall pitting HPCI	20040321
Q1990-04044	suction during ISI	11/07/1998
Q1998-04863	PS 1-5641-124 Out of Tolerance	11/08/1998
Q1998-04887	HPCI switches found Out of Tolerance	11/06/1998
		11/09/1996
Q1998-04894	Turbine Trip PS 1-5650-100A found Out	44/00/4000
04000 04007	of Tolerance	11/09/1998
Q1998-04937	RCIC temperature switches (2) as funds	44/44/4000
0.4000 0.4040	were Out of Tolerance	11/11/1998
Q1998-04942	DPIS 2-302-52 found Out of Tolerance	11/12/1998
Q1998-05035	Condenser low vacuum switch found Out	44/45/4000
0.4000 0.000	of Tolerance	11/15/1998
Q1998-05036	Relay 287-121B time delay fund slightly Out	4.4.4.
	of Tolerance	11/15/1998
Q1998-05051	LS 1-5441-34A Out of Tolerance	11/16/1998
Q1998-05084	Instrument failure	11/17/1998
Q1998-05117	Out of Tolerance	11/18/1998
Q1998-05133	As found date OOT	11/18/1998
Q1998-05158	Trip Out of Tolerance	11/19/1998
Q1998-05200	PS 1-263-37b found Out of Tolerance	11/21/1998
Q1998-05207	HPCI flow loop calibration found Out	
	of Tolerance	11/21/1998
Q1998-05220	Out of Tolerance	11/23/1998
Q1998-05290	Out of Tolerances found during QCIS 0200-01	11/25/1998
Q1998-05305	Out of Tolerance (per IMD Administrative	
	Guidance) while performing QIP 263-1	11/26/1998
Q1998-05318	Transmitter Out of Calibration	11/28/1998
Corrective Action	Program Process Coded CRs	
	in Condition Report Issuance after Problem	
Identi		20021219
00426720 Identi	find problem reporting	20021210

Identified problem reporting

00137020 00139529	Corrective Action Assignment completed inappropriately CR 132067 closed without completion of recommended	20021220
00140255	action NOS ID'd RCR on B14-1 fuse drawer didn't address	20030115
00140355	CR 132496	20030121
00140371	MRC Rejected RP Root Cause Report	20030121
00140818	NOS identified apparent trends in RCR themes	20030121
00144464	Concerns with CAPR closure & EFR for ECCS venting	20030123
00144404	Dried grease at Dresden/Quad aux contacts-Untimely	20030213
00143303	response	20030219
00145609	Investigation Timeliness Needs Improvement	20030221
00146496	NOS Identified Untimely Corrective Actions	20030227
00146791	NOS identified ineffective freeze seal	20030228
00146799	NOS id'd problems with Effectiveness Review 95542-07	20030228
00146878	Corrective Action AT Assignment 00143607-04 Overdue	20030228
00147253	ACE Assignment 142318-01 Rejected by MRC	20030303
00149149	QRT Grade 3 for ACE 101650-01	20030314
00152154	Corrective action items from CR149922 not initiated	20030403
00152972	Action Tracking Item Overdue	20030408
00153078	NOS identified trend codes not updated after ACE	
	performed.	20030409
00153101	CR 89176 CAPR Action Not as Directed	20030409
00153525	Soer 02-4 FASA for SCWE at Quad Cities- Objective 4	20030411
00156697	NOS rated site CAP implementation as ineffective for	
	2003Q1	20030501
00157332	NOS "Ineffective Performance" CR Not Timely	20030505
00160946	NOS IDd CR processing quality issues - supervisory	
	reviews	20030529
00161395	EACE 154698 Receives MQRT Grade of "D"	20030601
00161396	ACE 150851 Receives MQRT Grade of "D"	20030601
00161503	ACE 150278 Receives MQRT Grade of "D"	20030602
00161528	NOS ID'd CR not written for test failure and TS entry	20030602
00161792	Corrective Action not performed due to cancellation of	
	WO	20030604
00162160	QRT Grade 3 for ACE 148822-01	20030605
00163851	Corrective action entered that MRC did not approve	20030618
00164210	ACE 152803 Receives MQRT Grade of "D"	20030620
00166557	HPCI MO 2-2301-3 possible leak by	20030708
00167058	Station response to venting issues challenges	00000740
00407004	investigation	20030710
00167281	NOS Rated Site Corrective Action Program Ineffective	20030711
00167442	Priority for CRs not properly identified	20030714
00167972	MRC rejected ACE	20030717
00168928	NRC NCV 03-05-02 - Inadequate CA for a Preconditioning Issue	20020724
00171020		20030724
00171039 00171042	EACE 127687 Receives MQRT Grade of "D" EACE 145402 Receives MQRT Grade of "D"	20030811 20030811
00171042	NOS ID'd: Outage Lessons Learned Database	20030811
00172936	ACE 137396 Receives MQRT Grade of "D"	20030625
00173317	ACE 101030 Necelves INIGINI GIAGE OF D	20030912

00176282 00177029	NOS ID: Weakness in a Root Cause Analysis EACE Rejected by MRC	20030918 20030923
00177583	Unsatisfactory Closure of CR 174617	20030925
00177303	CR 143866 - Two Corrective Actions not Assigned	20030923
00170914	Upon Closure	20031002
00179144	Engineering RCR expectations not met	20031003
00180371	Inadequate information to complete corrective actions	20031010
00180678	CCA CAP Performance Indicator Yellow	20031013
00181086	Apparent Cause Administrative Deficiencies (CR)	20031015
00181949	Untimely CR Initiation	20031020
00183316	ACE 131050 Receives MQRT Grade of "F"	20031010
00186434	FASA Deficiency - Ineffective Corrective Action	20031113
00196512	PI for Median Age of CA is Red	20040120
00197277	CCA needed for External Identified CRs	20040123
00201217	Corrective Action AT closed without all actions	
	performed	20040212
00216467	Ineffective ACE and ACIT closure problems	20040422
00216684	Untimely Initiation of Condition Reports by Engineering	20040423
00227203	Cr Initiation Not Always Timely For Some Areas	20040609
00227259	Nos Id D: Mrff Cr Processing Issues	20040609
00227368	Site Wide Trending Not Consistently Used To Improve	
	Performance	20040610
00239314	Cr210037 Corrective Action Incomplete	20040727
00240264	Ineffective Capr For Main Steam Line Flow Switch	
	Root Cause	20040730
00244665	Evaluation For Ir 232361 Does Not Exist In Passport	20040816
00246150	Potential Problem With The Timely Routing Of Irs	
	To Ops	20040820

Additional Items Reviewed

NRC Information Notice 2002-29; Design Problems in Safety Functions of Pneumatic Systems; dated October 15, 2002

General Electric Service Information Letter 448; Maintenance and Lubricants for GE Type AK/AKR Circuit Breakers; Revision 2

ENG-04-07; Quad Cities June 2004 Quarterly System Health Indicators; dated July 22, 2004

NRC Generic Letter 88-14; Instrument Air Supply System Problems Affecting Safety-Related Components; dated August 8, 1988

Commonwealth Edison's Response to Generic Letter 88-14; dated February 6, 1989

Maintenance Rule Performance Criteria Information for Function Z0012-01; Provide Internal Flood Protection for the Reactor Building; dated October 22, 2004

Common Cause Analysis 209720; Analysis of the Trend in Work Practice Work Instructions Coded Condition Reports Attributed to Maintenance; dated June 27, 2004

Common Cause Analysis 209752; Engineering Document Quality; dated July 28, 2004

CC-AA-103-2001; Setpoint Change Control; Revision 1

ESPT Continuing Training Course 04TESCT; Operability Determination; Revision 1

List of Camera Used for ALARA Purposes; dated October 26, 2004

Operating Experience Item 129522; Review of General Electric Technical Information Letter 1360-2, "EHC Power Supply Inspections;" dated September 23, 2002

Operating Experience Item 136842; Review of General Electric SC02-22, "Potential Non-Conservatism in Small Steam Line Break Analysis Assumptions for Mark I Containment Equipment Qualification;" dated January 19, 2003

Operating Experience Item 136898; Review of General Electric Service Information Letter 646, "Target Rock Safety Relief Valve Failure to Fully Open;" dated January 29, 2003

Operating Experience Item 141461; Review of General Electric SC03-01, "Additional Material Consideration for TIP System Ball and Shear Valve Qualifications;" dated June 16, 2003

Operating Experience Item 148037; Review of Nuclear Event Report DR-03-001, "High Flow Control Line Following Load Drop;" dated April 4, 2003

Operating Experience Item 156575; Review of Nuclear Event Report KS-03-006, "Fleet-Wide Actions for Operating Events from 2002;" dated August 26, 2003

Operating Experience Item 171258; Review NRC Information Notice 2002-37, "Failure of Safety-Related Circuit Breaker External Auxiliary Switches at Columbia Generating Station;" dated January 5, 2003

Operating Experience Item 174867; Review of Nuclear Event Report KS-03-007, "Inadequate Disposition of Single Point Vulnerability Results;" dated October 1, 2003

Operating Experience Item 175971; Review of Nuclear Event Report DR-03-096, "Stroke Time Issue with High Pressure Coolant Injection Pump Discharge to Condensate Storage Tank Motor Operated Valves;" dated October 27, 2003

Operating Experience Item 179572; Review NRC Information Notice 2003-18, "General Electric SBM Control Switches with Defective Cam Followers;" dated March 30, 2004

Operating Experience Item 200024; Review of Nuclear Event Report DR-04-006, "Unit 3 Reactor Scram While Transferring Main Turbine Lube Oil Cooler;" dated April 20, 2004

Operating Experience Item 202720; Review of Nuclear Event Report DR-04-009, "Water Entered Into the High Pressure Coolant Injection Steam Line Following a Scram;" dated March 31, 2004

Operating Experience Item 254371; Review of Nuclear Event Report LI-04-067, "Unit 1 Thermal Power Exceeded by 0.2 - 0.4 Percent;" dated September 21, 2004

P & ID, —21, Diagram of Turbine Building Closed Cooling Water System (Unit 1) QOM, 1-3800-01, Rev. 8, U1 TBCCW Valve Check List

TBCCW System Engineering Notebook Index and Sample of Notebook

List of OPEN Work Orders and Work Requests for TBCCW System

Common Cause Analysis, CCA 203885-19 (Local Leak Rate Test Failures Affect Refuel Outage Performance)

Issue Reports Submitted as a Result of the Team Observations

IR 00265130; Trapeze Type Piping Support Nut and Locknut Not Engaged

IR 00265397; Surface Corrosion on Pump Flanges/Hardware

IR 00265505; Valve Has Residue On/Near Packing Gland

IR 00265625; U-1 TBCCW Expansion Tank LCV Air Line Vibrates

IR 00265729; TBCCW Piping Hanger Issues in Crib House

IR 00266695; Valve has Residue on/Near Packing Gland

IR 00266711; TBCCW Pipe Hanger Issues in U-2 Crib House

IR 00266714; Pipe Support U-Bolts Lose or Missing, U-1 CRD Level

IR 00266734; U-1 RFP U-Bolt Pipe Supports Have Loose/Missing Jamb Nuts

IR 00266747; U-2 RFP U-Bolt Pipe Supports Have Loose/Missing Jamb NutsAR

00266778; TBCCW Valves & Gauges for 1A IAC Have SW System EPNS

AR 00266814; TBCCW Valves Have 3900 System EPNS & SW and DW System Names

IR 00266891; TBCCW Valves/Gauges Have 3900 System EPNS & Noun Names

IR 00267665; Extent of Condition From Pipe Support/Hanger Issues Found