

#### UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352

December 30, 2010

Mr. Mark Bezilla Site Vice President FirstEnergy Nuclear Operating Company Perry Nuclear Power Plant P. O. Box 97, 10 Center Road, A-PY-A290 Perry, OH 44081-0097

# SUBJECT: PERRY NUCLEAR POWER PLANT - PROBLEM IDENTIFICATION AND RESOLUTION INSPECTION REPORT 05000440/2010007

Dear Mr. Bezilla:

On November 30, 2010, the U. S. Nuclear Regulatory Commission (NRC) completed a biennial team inspection of Problem Identification and Resolution (PI&R) at your Perry Nuclear Power Plant. The inspection team also reviewed the most recent independent assessment of safety culture to further evaluate an open substantive cross-cutting issue. The enclosed report documents the inspection results, which were discussed on November 30, 2010, with you and other members of your staff.

The inspection examined activities conducted under your license as they relate to the identification and resolution of problems, and compliance with the Commission's rules and regulations and with the conditions of your operating license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

The team concluded that problems were properly identified, evaluated, and resolved within the corrective action program. The team also concluded that the improved quality of root and full apparent cause analyses identified during the last PI&R inspection has continued. Human performance initiatives and commitments initiated in 2009 appear to have become engrained in your work practices. Your staff was aware of the importance of having a strong safety-conscious work environment and expressed a willingness to raise safety issues. However, the team determined that improvements made to address the substantive cross-cutting issue in work planning are not yet effective and that additional effort in this area is needed.

Based on the results of this inspection, one NRC-identified finding and one self-revealed finding of very low safety significance were identified. One finding was also a violation of NRC requirements. However, because of the very low safety significance and because it was entered into your corrective action program, the NRC is treating this finding as a Non-Cited Violation (NCV) in accordance with Section 2.3.2 of the NRC's Enforcement Policy.

M. Bezilla

If you contest the subject or severity of the findings, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the U. S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001, with a copy to the Regional Administrator, U.S. Nuclear Regulatory Commission - Region III, 2443 Warrenville Road, Suite 210, Lisle, IL 60532-4352; the Director, Office of Enforcement, U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001; and the Resident Inspector Office at the Perry Nuclear Power Plant. In addition, if you disagree with the cross-cutting aspect of any finding in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your disagreement, to the Regional Administrator, Region III, and the NRC Resident Inspector at the Perry Nuclear Power Plant.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, and its enclosure, and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's document system (ADAMS), accessible from the NRC Web site at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> (the Public Electronic Reading Room).

Sincerely,

/RA/

Jamnes L. Cameron, Chief Branch 6 Division of Reactor Projects

Docket Nos. 50-440 License Nos. NPF-58

- Enclosure: Inspection Report 05000440/2010007 w/Attachment: Supplemental Information
- cc w/encl: Distribution via ListServ

## U. S. NUCLEAR REGULATORY COMMISSION

# **REGION III**

Docket No: License No:	50-440 NPF-58
Report No:	05000440/2010007
Licensee:	FirstEnergy Nuclear Operating Company (FENOC)
Facility:	Perry Nuclear Power Plant, Unit 1
Location:	Perry, Ohio
Dates:	November 1 – 30, 2010
Inspectors:	J. Jandovitz, Project Engineer, Team Lead A. Dunlop, Senior Reactor Inspector C. Brown, Reactor Inspector M. Phalen, Senior Health Physicist T. Hartman, Resident Inspector, Perry
Approved by:	J. Cameron, Chief Branch 6 Division of Reactor Projects

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#### SUMMARY OF FINDINGS

IR 05000440/2010007; 11/01/2010 - 11/30/2010; Perry Nuclear Power Plant, Unit 1; Routine Biennial Problem Identification and Resolution (PI&R) Inspection.

This inspection was performed by four NRC regional inspectors and the Perry resident inspector. Two Green findings were identified by the inspectors. One finding also has an associated Non-Cited Violation (NCV). The significance of most findings is indicated by their color (Green, White, Yellow, Red) using Inspection Manual Chapter (IMC) 0609, "Significance Determination Process" (SDP). Findings for which the SDP does not apply may be Green or be assigned a severity level after NRC management review. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

#### **Problem Identification and Resolution**

On the basis of the sample selected for review, the team concluded that implementation of the corrective action program (CAP) at Perry was generally effective. The licensee had a low threshold for identifying problems and entering them in the CAP. Items entered into the CAP were screened and prioritized in a timely manner using established criteria; were properly evaluated commensurate with their safety significance; and corrective actions were generally implemented in a timely manner, commensurate with the safety significance. The team noted that the licensee reviewed operating experience for applicability to station activities. Audits and self-assessments were determined to be performed at an appropriate level to identify deficiencies. The team also concluded that the improved quality of root and full apparent cause analyses identified during the last PI&R inspection has continued.

Human performance initiatives and commitments initiated in 2009 appear to have become engrained in station work practices and personnel are willing and provided examples where they would stop work if they identified issues.

The plant staff was aware of the importance of having a strong safety-conscious work environment and expressed a willingness to raise safety issues. In interviews conducted during the inspection, workers at the site expressed willingness to enter safety concerns into the CAP.

However, the team determined that improvements made to address a longstanding substantive cross-cutting issue in work planning are not yet effective and additional effort in this area is needed.

#### NRC-Identified and Self-Revealed Findings

#### **Cornerstone: Initiating Events**

<u>Green</u>: A finding of very low safety significance and associated non-cited violation of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," was self-revealed for the licensee's failure to have an adequate work plan for replacing voltage regulator cards associated with Average Power Range Monitor (APRM) 'A'. Specifically, the work plan for APRM 'A' did not provide proper guidance to the technicians or operating crew resulting in an unexpected recirculation flow control valve (FCV) runback and subsequent required operator actions. The licensee entered the issue into their corrective action program as condition report (CR) 10-85239. As part of the corrective actions, the licensee plans to place warning placards on the outside of the

APRM cabinet doors providing the proper instructions to personnel working in the cabinets.

The finding was determined to be more than minor because the finding was similar to IMC 0612, Appendix E, Example 4.b, and resulted in operator intervention to maintain reactor power stable. In addition, the performance deficiency impacted the Initiating Events Cornerstone attribute of procedures and adversely affected the cornerstone objective to limit the likelihood of those events that upset plant stability. The inspectors determined the finding could be evaluated using the SDP in accordance with IMC 0609. "Significance Determination Process," Attachment 0609.04, "Phase 1 - Initial Screening and Characterization of Findings," Table 4a, for the Initiating Events cornerstone. While the finding increased the likelihood of a reactor trip, it did not increase the likelihood that mitigation equipment would not be available, and therefore, the inspectors determined the finding to be of very low safety significance. The finding is associated with a cross-cutting aspect in the operating experience component of the Problem Identification & Resolution cross-cutting area because the licensee did not implement internal operating experience (OE) into station processes and procedures. Specifically, licensee personnel did not adequately research and identify previous plant experience regarding the impact of de-energizing the power supply to the control circuitry for APRM 'A' on other related systems contributing directly to an unplanned power transient on the reactor (P.2(b)).

#### **Cornerstone: Public Radiation Safety**

<u>Green</u>: A finding of very low safety significance was identified by the inspectors for the licensee's failure to follow procedure NOBP-LP-4003A, FENOC 10 CFR 50.59 User Guidelines, when a new procedure was written and implemented describing the operation of the waste abatement reclamation facility (WARF), radioactive interim storage facility (RISB), and on-site storage and container yard (OSSC). Specifically, the determination that new procedure HPI-K0009, "Operation of the WARF, RISB and OSSC Yard," was a managerial or administrative change and, therefore, the 50.59 process was not applicable, did not comply with the direction provided in Section 1.1 of NOBP-LP-4003A. As a result, the differences in the use of these facilities as specified in Procedure HPI-K0009, with their design basis and USAR descriptions were not identified and evaluated. The licensee has rescinded this procedure until the regulatory evaluation is completed.

The finding was determined to be more than minor because it was associated with the Public Radiation Safety Cornerstone attribute of program/process and adversely affected the cornerstone objective to ensure adequate protection of public health and safety from exposure to radioactive materials released into the public domain as a result of routine civilian nuclear reactor operation. The inspectors determined the finding could be evaluated using the SDP in accordance with IMC 0609, "Significance Determination Process," Appendix D, "Public Radiation Safety," to assess its significance. The inspectors determined that the finding did not involve radioactive material control, there was not a substantial failure to implement the radiological effluent program, and public dose was less than criteria in 10 CFR Part 50, Appendix I, and 10 CFR 20.1301. This finding is associated with a cross-cutting aspect in the resources component of the human performance cross-cutting area because the licensee did not ensure complete, accurate, and up-to-data design documentation and procedures are available. Specifically, there were eleven instances where issues related to operating the WARF,

RISB, and OSSC outside of their design bases were identified since 2000 and no actions to correct these issues were developed until 2010, when a procedure was issued (H.2(c)).

## **Licensee-Identified Violations**

No violations of significance were identified.

#### **REPORT DETAILS**

#### 4. OTHER ACTIVITIES

4OA2Problem Identification and Resolution (71152B)

The activities documented in Sections .1 through .5 constituted one biennial sample of problem identification and resolution as defined in Inspection Procedure (IP) 71152.

#### .1 Assessment of the Corrective Action Program Effectiveness

#### a. Inspection Scope

The inspectors reviewed the licensee's Correction Action Program (CAP) implementing procedures, interviewed personnel, and attended CAP meetings to assess the implementation of the CAP by site personnel.

The inspectors reviewed risk and safety significant issues in the licensee's CAP program since the last NRC Problem Identification and Resolution (PI&R) inspection in February of 2009. The selection of issues ensured an adequate review across NRC cornerstones. The inspectors used issues identified through NRC generic communications, department self-assessment, licensee audits, operating experience reports, and NRC documented findings as sources to select issues. Additionally, the inspectors reviewed issue reports generated as a result of facility personnel's performance in daily plant activities. In addition, the inspectors reviewed condition reports (CRs) and a selection of completed investigations from the licensee's various investigation methods, which included root cause, apparent cause, limited apparent cause, and common cause investigations.

The inspectors selected the Emergency Service Water (ESW) system to conduct a detailed 5-year review. The inspectors' review was to determine whether the licensee staff were properly monitoring and evaluating the performance of this system through effective implementation of station monitoring programs. The inspectors also performed partial system walkdowns in the plant of the ESW system, the Waste Abatement Reclamation Facility (WARF), of scaffolding installed at various locations in the plant, and of operator aids and signs posted in the plant.

During the reviews, the inspectors evaluated whether the licensee staff's actions were in compliance with the facility's CAP and 10 CFR Part 50, Appendix B, requirements. Specifically, the inspectors evaluated whether licensee personnel were identifying plant issues at the proper threshold, entering the plant issues into the station's CAP in a timely manner, and assigning the appropriate prioritization for resolution of the issues. The inspectors also evaluated whether the licensee staff assigned the appropriate investigation method to ensure the proper determination of root, apparent, and contributing causes. The inspectors also evaluated the timeliness and effectiveness of corrective actions for selected issue reports, completed investigations, and NRC findings, including Non-Cited Violations (NCVs).

Documents reviewed are listed in the Attachment to this report.

#### b. Assessment

#### (1) Effectiveness of Problem Identification

In general, problem identification was adequate and at an appropriate threshold and workers were encouraged to identify issues. The sample of issues from the CAP reviewed by inspectors indicated a low threshold. Almost 5000 CRs have been generated by the site at the time of this inspection. This number was in- line with the number generated at the other FENOC sites and was considered by the inspectors to be representative of a good problem identification ethic. Safety culture related surveys and interviews indicated the willingness of the licensee's staff to identify issues and capture them in the CAP. The team did identify that some low level issues were not initially put into the CAP until workers were prompted or significant discussion ensued, indicating continued reinforcement of a low threshold may be needed.

#### **Observations**

#### Trending NRC Cross-Cutting Aspects

The team noted that the licensee is reviewing all Root Cause, Apparent Cause and Limited Apparent Cause Evaluations and categorizing their results based on NRC cross-cutting aspects. The team noted that in many cases the licensee performed a limited cause evaluation that determined the cause to be related to human errors; a more complete evaluation may produce a different cause, possibly related to a process. While a more in-depth causal evaluation was not required by the process, using the results to trend for cross-cutting aspects may lead to the wrong focus if corrective actions were initiated.

#### **Findings**

No findings were identified.

#### (2) Effectiveness of Prioritization and Evaluation of Issues

The team attended several Management Alignment and Ownership Meetings (MAOM) and a Corrective Action Review Board (CARB) meeting. Overall, the team concluded CAP issues were being properly screened. The majority of issues were of low level and were either closed to trend or assigned a work order to fix. Licensee staff appropriately challenged CAP items during screening meetings and were cognizant of potential trends. Prioritization has allowed the station to maintain a workable backlog for evaluation of issues.

There were no items in the operations, engineering, or maintenance backlogs that were risk significant, individually or collectively. There were no classifications or immediate operability determinations with which the inspectors disagreed.

The team reviewed nine root cause or apparent cause documents and found that they were in-depth, addressed the issue, were of good quality, and were well documented. During the 2009 PI&R inspection, the inspectors noted improvements in the completeness and quality of root and full apparent cause analyses. The team has the same conclusion during this inspection.

Through interviews, the team verified personnel received an automated e-mail which provided the status of their issue. For those issues involving equipment or systems, discussion between the initiator and evaluator to ensure the issue was correctly defined and to discuss the course of action seemed to improve in the last year.

#### <u>Findings</u>

No findings of significance were identified.

#### (3) Effectiveness of Corrective Actions

The team concluded that corrective actions for identified deficiencies were generally timely and adequately implemented, commensurate with their safety significance. Those corrective actions addressing selected NRC documented violations were also generally effective and timely.

During the planning for this inspection, one of the samples selected was NCV 2009004-003, Unexpected Half Scram Due to Faulty Troubleshooting Plan, which concerned the power supplies for the average power range monitor (APRMs). During the inspection, the plant experienced an unexpected recirculation flow control valve (FCV) runback signal which was generated during replacement of voltage regulating cards associated with the 'A' APRM instrument. The runback signal required operator action to control reactor power. The team reviewed this incident with respect to the corrective actions completed for NCV 2009004-03. The inspectors determined the incident was not related to the corrective actions taken for the NCV, but did determine that the work plan and procedures for the recent APRM work were not adequate and could have prevented the runback if the knowledge from the 2009 issue as well as a similar 1999 issue were institutionalized.

The team also reviewed a number of issues in the CAP concerning the use of the WARF, the radioactive interim storage facility (RISF), and the on-site storage and container (OSSC) yard. Since 2000, many issues were identified with these facilities; of particular concern were issues that identified that use of the facilities was not in accordance with their design basis. The inspectors noted that a new procedure to correct these issues was not issued until 2010.

**Findings** 

#### (1) <u>Unexpected Recirculation Flow Control Valve Runback Due to Inadequate Work Plan</u>

Introduction: A finding of very low safety significance (Green) and associated NCV of 10 CFR Part 50, Appendix B, Criterion V, "Instructions, Procedures, and Drawings," was self-revealed for the licensee's failure to provide an adequate work plan for replacing voltage regulating cards associated with APRM 'A'. Specifically, the work plan for APRM 'A' did not provide proper guidance to the technicians or operating crew resulting in an unexpected recirculation flow control valve (FCV) runback and subsequent required operator actions.

<u>Description</u>: On November 1, 2010, technicians replaced three 15-Vdc (volt direct current) voltage regulator cards in the control circuitry for the 'A' APRM. The replacement process required power supply PS23 to be turned off. PS23 provides power to the 15-Vdc voltage regulator cards for APRM 'A' and 'E' as well as the optical

isolator that fed power information to the automatic flow demand limiter (AFDL) circuitry. Due to issues associated with PS23, the power supply remained off for an extended period of time. Unknown to the technicians and the operating crew who performed the work plan, shutting down PS23 and removing power from the optical isolator resulted in the optical isolator output signal drifting up even though actual conditions remained stable. After approximately 30 minutes with PS23 de-energized, the optical isolator output signal drifted up to the AFDL setpoint (110 percent) and the AFDL sent a signal to the recirculation FCVs to reduce recirculation flow (runback) to reduce power. After determining that the cause of the runback was not an actual plant condition, the operating crew locked up the FCVs to stop the runback by securing the hydraulic control units that control the FCVs. The runback resulted in an approximately 1 percent power reduction. The operators entered Off-Normal Instruction ONI-C51, Unplanned Change in Reactor Power or Reactivity.

A review of the work site identified that placards warning personnel about de-energizing PS23 and the effects on the FCVs were present inside both the front and back panels. A review of the work order (WO) identified that precautions and limitations associated with de-energizing PS23 did not include a similar warning related to the FCV runback potential. A review of historical documents identified a similar issue which occurred in 1999 and led to the placement of the placards inside the APRM cabinets. Other recent issues, related to power supply failures, were also not discussed in the work plan, nor were there any contingencies in the work plan to provide response actions if the power supply failed.

Corrective actions planned include installation of placards on the outside of the cabinet doors of the APRM unit to ensure that the knowledge contained in the regulator card calibration procedure was available to all personnel upon entry into the APRM control panels and updating the precautions of all active WOs associated with the APRM cabinet or power supply.

<u>Analysis</u>: The inspectors determined that the work plan developed for replacement of the 15-Vdc regulating cards did not adequately address the proper controls to execute the task and was a performance deficiency. The inspectors further determined that the issue was within the licensee's ability to foresee and correct, and that it could have been prevented because the licensee had previous similar internal operating experience.

The finding was determined to be more than minor because the finding was similar to Example 4.b in IMC 0612, Appendix E, "Examples of Minor Issues," dated January 10, 2008, and resulted in a reactor power transient requiring operator intervention to maintain the reactor power at a stable value. This performance deficiency impacted the Initiating Events Cornerstone attribute of procedure quality and adversely affected the cornerstone objective to limit the likelihood of those events that upset plant stability. Specifically, the failure to use proper controls resulted in a runback signal from the automatic flow demand limiter system and required operator actions to control reactor power.

The inspectors determined the finding could be evaluated using the SDP in accordance with Inspection Manual Chapter (IMC) 0609, "Significance Determination Process," Attachment 0609.04, "Phase 1 - Initial Screening and Characterization of Findings," Table 4a, dated January 10, 2008, for the Initiating Events Cornerstone. Because the finding did not contribute to both the likelihood of a reactor trip and the likelihood that

mitigation equipment would not be available, the inspectors determined the finding to be of very low safety significance (Green).

This finding is associated with a cross-cutting aspect in the operating experience component of the Problem Identification & Resolution cross-cutting area, because the licensee did not implement internal operating experience (OE) into station processes and procedures. Specifically, licensee personnel did not adequately research and identify previous plant experience regarding the impact of de-energizing the power supply to the control circuitry for APRM 'A' on other related systems contributing directly to an unplanned power transient on the reactor (P.2(b)).

<u>Enforcement</u>: Criterion V, "Instructions, Procedures, and Drawings," of 10 CFR Part 50, Appendix B, requires, in part, that activities affecting quality be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and be accomplished in accordance with these instructions, procedures, or drawings. Contrary to the above, on November 1, 2010, the licensee's work plan for replacing voltage regulators on APRM 'A', an activity affecting quality, was not appropriate to the circumstances. Specifically, the work plan did not provide proper guidance for de-energizing the power supply to the 15-Vdc voltage regulator cards in the control circuitry for the APRM 'A'. The failure to lock up the FCVs prior to de-energizing the power supply resulted in a recirculation flow runback with a subsequent requirement for operator action to maintain the plant stable.

The licensee entered the issue into the corrective action program (CAP) as CR 10-85239. The licensee's immediate actions included entry into an off-normal instruction to control reactor power while restoring the electric power supply to the effected APRMs. Because this violation was of very low safety significance and it was entered into the licensee's CAP via CR 10-85239, this violation is being treated as an NCV, consistent with Section 2.3.2 of the NRC Enforcement Policy. (NCV 05000440/2010007-01, Unexpected Recirculation Flow Control Valve Runback Due to Inadequate Work Plan)

(2) <u>Failure to Follow Procedure when Completing Regulatory Applicability Form for a New</u> <u>Waste Abatement Reclamation Facility, Radioactive Interim Storage Facility, and</u> <u>On-Site Storage and Container Procedure</u>

<u>Introduction</u>: A finding of very low safety significance was identified by the inspectors for the failure to follow procedure NOBP-LP-4003A when performing the evaluation of a new procedure for use of the WARF, RISF, and OSSC yard. Specifically, the determination that new procedure HPI-K0009, "Operation of the WARF, RISB and OSSC Yard," was a managerial or administrative change and, therefore, the 50.59 process was not applicable, did not comply with the direction provided in Section 1.1 of NOBP-LP-4003A.

<u>Description</u>: The original plant design was to process and store radioactive waste (radwaste) inside the radiologically restricted area of the power generating facility, primarily inside the original radwaste building. This building was built to 10 CFR Part 50 requirements, including Appendix A, "General Design (GD) Criteria for Nuclear Power Plants," Criterion 60 – "Control of Releases of Radioactive Materials to the Environment." In the late 1970's and early 1980's, the NRC and the industry recognized that nuclear plants would need additional on-site waste storage capacity as low-level

waste disposal facilities were considering restricting access to some nuclear power plant operators.

The NRC provided guidance to nuclear power plant operators on how to proceed with making changes to their facilities for increasing their capacity for the storage of radioactive waste and materials through Generic Letter 81-38, "Storage of Low-Level Radioactive Waste at Power Reactor Sites," and IE Circular 80-18, "10 CFR 50.59 Safety Evaluations for Changes to Radioactive Waste Treatment Systems."

The licensee at Perry designed and built the WARF, RISF, and OSSC yard facilities to engineering document, DCR 91-7177, and its associated 50.59 evaluation, and also incorporated these facilities into the Updated Final Safety Analysis Report (UFSAR), Section 11.4.1.2. However, they were not built to the same construction standards of the original plant. Instead, the design documents restricted their use by establishing criteria such as limits on waste processing, thresholds on the amount of radioactive waste stored, and radiation limits on stored materials. These criteria were established such that radioactive effluents would be minimized. Additionally, radioactive monitoring and sampling would be required to ensure potential radioactive effluent pathways were identified, analyzed, and evaluated for dose impact.

Over time, the use of the facilities changed and CR 08-46725 identified 11 issues since 2000 that were categorized as implementation, compliance, or design issues that deviated from the design basis established in the 1993 design documents and UFSAR. The inspectors noted that the licensee had not implemented any administrative controls, such as procedures, for use of the facilities, thereby increasing the probability of a mistake in the licensee's effluent dose assessments related to the use of the facilities.

In 2008, the licensee initiated CR 08-46210 after NRC observations on the use of these facilities. The CR considered three possible solutions to use the facilities as desired: change the original DCR/ 50.59 completed in 1993, change the USAR, or develop a new procedure. The licensee issued new procedure HPI-K0009, "Operation of the WARF, RISB, and OSSC Yard," on September 17, 2010.

Title 10 CFR 50.59 allows the licensee to make changes to the facility and procedures as described in the UFSAR. The licensee used procedure NOBP-LP-4003A, "FENOC 10 CFR 50.59 Users Guidelines," to evaluate new procedures to determine which regulations applied to the procedure and whether the procedure would require review by the NRC. In accordance with NOBP-LP-4003A, a Regulatory Applicability Determination (RAD) form was completed that concluded this new procedure was a managerial or administrative change and not subject to control under 10 CFR 50.59. After the inspectors questioned this conclusion, the licensee determined this was not an administrative change and the initial conclusion did not comply with the procedure. The licensee also agreed that the use of the facilities as described in the procedure did not agree with the facilities' design basis documents or their descriptions in the UFSAR. Proper application of procedure NOBP-LP-4003A would have more fully evaluated the radiological effluents that may have resulted from use of these facilities that were different from the uses described in the design basis documents.

The licensee initiated CR 10-85992 to evaluate this issue and rescinded Procedure HPI-K0009 until the regulatory evaluations were completed.

<u>Analysis</u>: The inspectors determined that the failure to perform a 10 CFR 50.59 screening was contrary to procedure NOBP-LP-4003A and was a performance deficiency. Specifically, the determination that new procedure HPI-K0009 was a managerial or administrative change did not comply with the procedure. As a result, the 10 CFR 50.59 screening was not performed and the differences in the procedure requirements with the design basis and USAR requirements were not identified and evaluated.

The finding was determined to be more than minor because it was associated with the Public Radiation Safety Cornerstone attribute of program/process and affected the cornerstone objective to ensure adequate protection of public health and safety from exposure to radioactive materials released into the public domain as a result of routine civilian nuclear reactor operation. Specifically, no compensatory radiological monitoring was in place to assess the dose from WARF building effluents.

The inspectors determined the finding could be evaluated using the SDP in accordance with IMC 0609, "Significance Determination Process," Appendix D, Public Radiation Safety, dated February 12, 2008, to assess its significance. The inspectors determined that the finding did not involve radioactive material control, there was not a substantial failure to implement the radiological effluent program, and public dose was less than the criteria in 10 CFR Part 50, Appendix I, and 10 CFR 20.1301. Consequently, the inspectors concluded that the finding was of very low safety-significance (Green).

This finding is associated with a cross-cutting aspect in the resources component of the human performance cross-cutting area because the licensee did not ensure complete, accurate, and up-to-date design documentation and procedures were available. Specifically, there were eleven instances where issues related to operating the WARF, RISB, and OSSC outside of their design basis were identified since 2000 and no controls to correct these issues were developed until 2010, when a procedure was issued (H.2(c)).

<u>Enforcement:</u> No violation of regulatory requirements occurred (FIN 05000440/2010007-020; Failure to Follow Procedure when Completing Regulatory Applicability Form for a New WARF, RISB, and OSSC Procedure)

#### .2 Assessment of the Use of Operating Experience

#### a. Inspection Scope

The inspectors reviewed the licensee's implementation of the facility's OE program. Specifically, the inspectors reviewed operating experience program implementing procedures, attended CAP meetings to observe the use of OE information, and completed evaluations of OE issues and events. The inspectors' review was to determine whether the licensee was effectively integrating OE into the performance of daily activities, whether evaluations of issues were proper and conducted by qualified personnel, whether the licensee's program was sufficient to prevent future occurrences of previous industry events, and whether the licensee effectively used the information in developing departmental assessments and facility audits. The inspectors also assessed if corrective actions, as a result of OE, were identified and effectively and timely implemented.

Documents reviewed are listed in the Attachment to this report.

#### b. Assessment

In general, OE was effectively used at the station. The inspectors observed that OE was discussed as part of the daily station planning meetings, at shift turnover meetings, and at pre-job briefs. Also, the inspectors determined that OE was appropriately reviewed during causal evaluations. The team concluded that the licensee's corrective actions noted during the 2009 PI&R inspection to improve the thoroughness and timeliness of OE evaluations and the dissemination of OE information appeared to be effective in sustaining performance in this area. However, the team did identify one issue where use of internal OE was deficient.

#### **Observation**

#### Average Power Range Monitor Power Supply

As part of the team's evaluation of the APRM finding discussed in a previous section, the team concluded that the licensee did not make effective use of internal OE. Previous incidents concerning the APRM power supplies occurred in 1999 and 2009 that were included in the CAP. Review by the licensee of these incidents during development of the procedure and work control documents would have likely prevented the performance deficiency. A cross-cutting aspect related to the use of OE was assigned to this finding.

#### **Findings**

No findings of significance were identified.

#### .3 Assessment of Self-Assessments and Audits

a. Inspection Scope

The inspectors assessed the licensee staff's ability to identify and enter issues into the CAP, prioritize and evaluate issues, and implement effective corrective actions, through a review of departmental assessments and audits.

Documents reviewed are listed in the Attachment to this report.

b. Assessment

The inspectors concluded that self-assessments and audits were scheduled and addressed the majority of the performance areas. The self-assessments and audits were typically accurate and identified issues and enhancement opportunities at an appropriate threshold. Issues found in the assessments were entered into the CAP.

The lead for the NRC inspection team reviewed the focused self-assessment, FO-SA-10-101, completed in preparation for this NRC inspection. This assessment was found to be thorough with a number of resulting corrective actions, many of them concerning the CAP process. The results of the assessment were not shared with the NRC inspection team to ensure independence of the team's conclusions. In general, the focused self-assessment agreed with the team's assessment of the CAP.

#### **Findings**

No findings of significance were identified.

#### .4 Assessment of Safety Conscious Work Environment

#### a. Inspection Scope

The inspectors assessed the licensee's Safety Conscious Work Environment (SCWE) through the reviews of the facility's employee concern program (ECP), discussions with coordinators of the ECP, interviews with personnel from various departments, and reviews of issue reports. The inspectors also reviewed the results from the quarterly Safety Culture Monitoring Reports, the annual SCWE Survey, and the Independent Safety Culture Survey performed as requested by the NRC.

Documents reviewed are listed in the Attachment to this report.

#### <u>Assessment</u>

The team determined that the plant staff were aware of the importance of having a strong SCWE and expressed a willingness to raise safety issues. All individuals had a good basic understanding of the definition of safety culture and SCWE. No one interviewed had experienced retaliation for safety issues raised, or knew of anyone who had failed to raise issues. All persons interviewed had an adequate knowledge of the CAP and ECP process and the ECP manager maintained visibility through routine communications and attending department meetings. These results were similar to the findings of the licensee's safety culture surveys. Based on these interviews, the inspectors concluded that there was no evidence of an unacceptable SCWE.

The team determined that the ECP process was being effectively implemented. Review of selected ECP issues concluded that the licensee was completing thorough investigations for issues having safety culture aspects and in all cases satisfactorily resolved the issue with the concerned individuals.

Documents reviewed are listed in the Attachment to this report.

#### **Observations**

#### Independent Safety Culture Assessment

In the 2009 End-of-Cycle Assessment letter (ADAMS Accession Number ML100610281), the NRC requested that Perry perform an independent safety culture assessment. The team reviewed the results of the assessment and found it satisfactory. It concluded that the plant's safety culture was adequate, which agreed with the NRC team's determination. The assessment identified a number of areas that needed improvement and these were entered into the CAP as CR 10-78263. The independent assessment was conducted using the latest industry guidance, Nuclear Energy Institute (NEI) 09-07, "Fostering a Strong Nuclear Safety Culture." This process included completion of a written survey offered to the entire staff, followed by an independent panel using the results of the written survey as a focus for interview questions and observations. The assessment of the safety culture was then made by the panel. The team noted weaker safety culture aspects determined by the panel were not the same aspects determined from the written survey. While the team agrees that this was in accordance with the industry guidelines, a discussion of the written survey results would

have minimized questions regarding these differences and increased confidence that the licensee had accurately identified the weaker safety culture aspects.

#### Independent Safety Culture Survey Results

The team found that Perry completed a number of surveys and assessments of safety culture and SCWE in 2010. Specifically, Perry completed an industry developed written survey of safety culture on April 19; an independent safety culture self-assessment on May 14, guarterly safety culture monitoring for the first 3 months, and an annual SCWE survey in August. The assessments resulting from the surveys identified strengths and weaknesses, with the weaknesses entered into the CAP. Results of the surveys were communicated via e-mails and during organization meetings. During interviews by the inspection team, individuals were asked about the results of the surveys, in general and specific to their work group, and also if they knew of corrective actions or improvement plans resulting from the assessments. Individuals responded that they had received updates on the results and generally thought the results were good, but no individual could identify the specific results for their work group or knew of resulting actions. Some of the individuals responded they received the e-mails but for various reasons did not read them. The team considered the effort to perform the safety culture assessments very significant, but the communication of the results to the individuals weak, possibly resulting in the loss of some of the effectiveness of the assessments.

#### **Findings**

No findings of significance were identified.

#### .5 Human Performance

a. Inspection Scope

The 2010 Perry Mid-Cycle Performance Review letter (ADAMS Accession Number ML102440084) noted this was the sixth consecutive assessment that identified a substantive cross-cutting issue in human performance. In particular, it identified continuance of the human performance aspect of Work Control, Planning (H.3(a)) that was first opened in the 2007 End-of-Cycle Assessment letter (ADAMS Accession Number ML080600303). The 2010 Mid-Cycle Performance Review letter stated the cross-cutting aspect would be reviewed during this PI&R inspection and the results used as one of the criteria to determine further actions to address this long-standing issue. The PI&R team assessed performance in this area through interviews with personnel, review of CR 09-63793, Independent Common Cause Analysis of Recent Human Performance Events, and CAP issues relevant to work planning.

Documents reviewed are listed in the Attachment to this report.

#### Assessment

Based on this inspection, it appears that human performance in general has improved at the site. Personnel interviewed indicated that they consistently used tools, such as pre-job briefs, peer checks, two-minute rules, and strict procedure adherence to prevent mistakes. It did appear these tools and expectations were accepted by the staff and now considered the normal behavior for doing work. They also provided examples where a job was stopped when unexpected conditions or improper planning was encountered. Past experience would have been for the workers to push through the issue and risk making a mistake. Now, the issues are raised and entered into the CAP. Similar answers and comments were also received from the one contractor interviewed. In 2009, human performance commitments to improved performance were made by each plant organization. When asked if these commitments were still being implemented at a high level, respondents replied they were. Several respondents in different organizations stated that their human performance advocate, a person designated in each organization with a focus on human performance, monitored department performance of the commitments and reinforced them when a declining trend was noted.

However, while the team recognized that human performance in general had improved, the team concluded that Perry's corrective actions to improve the specific continuing substantive cross-cutting issue in the work planning aspect had not yet been effective. During selected interviews, individuals identified examples of jobs that were stopped, some during the weeks the inspectors were onsite, due to ineffective planning. In addition, the finding discussed in this report concerning the APRM could have been prevented by more complete planning. Another issue being evaluated by inspectors this quarter concerning valve preconditioning also has aspects of poor work plan implementation. Recent changes have been made to the planning work group to include additional expertise, particularly experienced operations resources.

The team also specifically reviewed actions to improve radiation protection planning and dose estimates based on issues identified during the last refueling outage. The team noted that planning radiological aspects and dose estimates into work activities during the operating cycle was satisfactory. However, it was still not clear if the corrective actions taken by the station would be effective during the next refueling outage due to the unique and dose intensive jobs currently in the upcoming outage schedule.

#### 4OA6 Management Meetings

.1 Exit Meeting Summary

On November 30, 2010, the inspectors presented the inspection results to Mr. Bezilla and other members of the licensee staff. The licensee acknowledged the issues presented. The inspectors confirmed that none of the potential report input discussed was considered proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

#### SUPPLEMENTAL INFORMATION

#### **KEY POINTS OF CONTACT**

#### <u>Licensee</u>

- M. Bezilla, Site Vice-President
- R. Coad, Manager, Regulatory Compliance
- G. Freddo, Response Team, Engineering
- J. Grabner, Director, Site Engineering
- K. Krueger, Plant General Manager
- B. Lach, Employee Concerns
- D. Lockwood, Response Team Lead
- P. McNulty, Manager-Radiation Protection
- M. Medakovich, Response Team, Radiation Protection
- J. Pelcic, Nuclear Compliance
- D. Varner, Response Team, Maintenance

#### Nuclear Regulatory Commission

M. Marshfield, SRI, Perry Nuclear Power Plant

#### LIST OF ITEMS OPENED, CLOSED AND DISCUSSED

#### **Opened/Closed**

05000440/2010007-01	NCV	Unexpected Recirculation Flow Control Valve Runback Due to Inadequate Work Plan
05000440/2010007-02	FIN	Failure to Follow Procedure when Completing Regulatory Applicability Form for a New WARF, RISB, and OSSC Procedure

#### LIST OF DOCUMENTS REVIEWED

The following is a list of documents reviewed during the inspection. Inclusion on this list does not imply that the NRC inspectors reviewed the documents in their entirety, but rather, that selected sections of portions of the documents were evaluated as part of the overall inspection effort. Inclusion of a document on this list does not imply NRC acceptance of the document or any part of it, unless this is stated in the body of the inspection report.

#### PLANT PROCEDURES

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	HPI-K0009	Operation of the WARF, RISB and OSSC Yard	01

# CORRECTIVE ACTION PROGRAM DOCUMENTS REVIEWED

Number	Description or Title	Date or Revision
07-19667	Elevated Airborne Radioactivity During Drver	
01 10001	Strongback Removal	
07-22877	Improper Flows for Containment Vessel and Drywell	
	Purge Exhaust System	
07-29213	Scaffold Dose for RFO11 Exceeds Estimate by 150%	
08-44480	Motor Feed Pump Lube Oil Water Intrusion	
08-46144	480 V Division 1 and 2 Transformer Anchorage	
08-46210	Design Basis Description of the WARF/RISB Facility, NRC Identified	
08-46725	Inability to Correct WARF/RISB/OSSC Yard Issues through CAP	
09-52038	NRC PI&R 2009: Scaffold not in Compliance with Plant Procedures	
09-52148	ESW Sluice Gate Opened	
09-52450	NRC PI&R 2009 - Potential Adverse Trend in Scaffold	
00 52474	Program	
09-52474	Proc. No Immediate. Operability Performed	
09-53398	Replacement Station Air Compressors do Not Have	
	the Required Auto-Start	
09-54319	Annulus Exhaust Gas Treatment System Damper Failure	
09-54697	Compliance with SOI-F15 Precaution and Limitation 2.33	
09-55117	While Working on the 360 Platform a Worker Struck	
09-55007	NRC PI&R Inspection RPT NCV: Scaffold Build not in	
	Compliance with Procedure GCI-016	
09-55138	ESW Emergency Inject Valve Actuator Found Failed	
09-55397	Reactor Bottom Drain Temperature Lowered to Less	
09-56569	DC BUS ED-1-A Ground Fault Alarm Locked In	
09-56646	ED1A Ground	
09-58187	Incorrect Relay Operated During PTI-N41-P0002	
09-58808	RHR A High Pressure During ISI-B21-T1300-1	
09-58995	Procedure Change to Vent Piping Between RHR to	
	FW Return Isolation Valves	
09-60395	CCCW Chilled Water Pump A Failed to Start	
09-60873	NRC ID (FP Triennial): Control Room Fire Isolation for 1M43C0001A	
09-62185	Self Assessment Identified 3 Components with High	
09-62188	Critical Component Failure Assessment	
09-63674	Weakness in Responding to Changing Radiological	
	Conditions	

## CORRECTIVE ACTION PROGRAM DOCUMENTS REVIEWED

Number	Description or Title	Date or Revision
09-63860	INPO 2009 Area For Improvement (RP.1-3)	
09-63991	Unexpected 1/2 Scram During APRM A	
	Troubleshooting	
09-65110	NRC NCV, RCS Temperature Below Minimum	
	Allowed by Tech Specs	
09-65239	LHRA Entry Made on Wrong RWP	
09-67396	NRC Comment on WARF/RISB Use Verses Design	
	Basis	
09-67554	Perform Lace Evaluation Of Maintenance Rule	
	Function Failure	
09-67884	NRC 2009 QTR3 Report - Faulty Troubleshooting Plan	
	Causes 1/2 Scram	
10-71309	Physical Condition of the WARF Building	
10-71622	Cracked Weld on ECC B Flow Element Instrument	
	Root Piping	
10-72025	Voltage Adequacy During Automatic LOCA Load	
	Sequencing at Minimum Grid	
10-72522	Perry On-Line Cycle Schedule Bow Wave	
10-77023	Potential Cross-Cutting Theme for Human	
	Performance Aspect H.1.b – Decision Making	
40 77704	(Includes 360 Platform NCV)	
10-77781	Reactor Recirc Pump A Trip due to Failed Optical	
40 70000	Isolator Draktare with Dath Air Druges for DC 2	
10-78036	Problems with Both Air Dryers for DG 2	
10-78265	CA-SA-10-103 AFI 2B Opposing Views and	
40 70000	Employee input Selectively Sought	
10-78266	CA-SA-10-103 AFI 3F Change is Poorly Managed	
10-78267	CA-SA-10-103 AFI 5F Ineffective Corrective Actions	
40 70000	to Address Procedure Quality	
10-78268	CA-SA-10-103 NNI P3B Unintended Consequences	
40 70047	from Management Communications	
10-78917	ESW Sluice Gate Backup Air Bottle Pressure Low	
10-79107	Inadequate Review for Peroxide Cleaning	
10-79995	FO-SA-10-10 Pre-PI&R Potential Deficiencies, Non-	
10 70000	Compliance with Program	
10-79990	Timeliness of CP Initiation	
10-80010	FO-SA-10-1 Pro-PI&P Potential Deficiencies	
10-80083	SIC Heat Trace Failure	
10-80752	Employee Disregarded Portal Monitor Alarm VIO	
10-00752	2010-008-01	
10-81474	MS-C-10-07-07: Finding: Long Term Scaffolds not	
	Evaluated for Plant Changes	
10-82553	FO-SA-10-010 Pre PI&R Potential Deficiencies in	
	SCWE & Safety Culture	
10-84635	2010 SCWE Survey – Pillar 2 Rated Red for PYRP	

### CORRECTIVE ACTION PROGRAM DOCUMENTS REVIEWED

Number	Description or Title	Date or Revision
10-85239	Recirc FCV's Locked Up Due to APRM A and E Failure	
10-85240	Missed Opportunity for Work Order Planning Process and Plant Impact Assessment	

#### ROOT CAUSE/APPARENT CAUSE EVALUATIONS

Number	Description or Title	Date or Revision
RCE 09-55801	Dose for the ADHR Project Exceeds 2 <sup>nd</sup> 100% Estimate	03/20/09
ACE 09-56837	Wiring Changes in ECP 08-0122 Results in ED- 1-A Grounds	04/06/09
ACE 09-57943	PY-PA-09-01 Finding: Missed Organizational Learning Opportunities	04/25/09
ACE 09-59843	PY-PA-09-01 Finding: Maintenance Rated Ineffective (RED)	05/29/09
RCE 09-60866	Potential Unrecognized Entry into LCO	
RCE 09-61668	Maintenance – Continuing Individual and Organizational Behaviors	07/10/09
ACE09-63793	Independence Common Cause Analysis of Recent Human Performance Events	08/28/09
RCE 09-65972	Emergency Service Water Pump Trip	11/17/09
RCE 10-72243	ECCW B Through Wall Leakage Reportability	03/31/10

# OPERATING EXPERIENCE

Number	Description or Title	Date or Revision
	Externally Submitted OE	June 2010 through
		October 2010
03-00279	OE SOER 03-1 Emergency Power Reliability	12/01/03

## AUDITS, ASSESSMENTS AND SELF-ASSESSMENTS

Number	Description or Title	Date or Revision
PY-SA-09-030	Reporting of Operating Experience to the Industry	06/18/09
PY-SA-09-031	Critical Component Failures	06/01/09
PY-SA-09-050	Operating Experience (OE) Screening and Evaluation	10/06/09
PY-SA-09-057	Perry Refuel Floor Rad Worker Practices	02/01/10
PY-SA-10-001	Critical Component Failures	02/19/10
PY-PA-07-02	Negative Trend in the Area of Scaffolding (07- 17995)	04/09/07
PY-PA-07-02	Fuel Handling Building Contaminated Multiple Times (07-19977)	05/04/07

# AUDITS, ASSESSMENTS AND SELF-ASSESSMENTS

-		
Number	Description or Title	Date or Revision
SN-SA-10-064	SA: Operating Experience (OE) Screening (Follow- up) - Perry Recovery Plan 7501-5	02/12/10
SN-SA-10-081	Root Cause/Full Apparent Cause Extent of Condition/Extent of Cause evaluations for alignment with Generic Implications Training given in 2008	03/08/10
SN-SA-10-086	NEI 07-07 Groundwater Compliance Snap-Shot Assessment	03/08/10
SN-SA-10-133	Prompt Operability Determination and Prompt Functionality Assessment Review, Second Quarter 2010	07/14/10
FO-SA-10-10	Corrective Action Program PI&R Preparation	08/27/10

### DRAWINGS

Number	Description or Title	Date or Revision
302-0792	Emergency Service Water System	LL
302-0793	Emergency Service Water System	Ν

## CONDITION REPORTS GENERATED DURING INSPECTION

Number	Description or Title	Date or Revision	
10-85365	2010 NRC PI&R: Incomplete CA Closure Documentation	11/03/10	
10-85380	ESW 'C' Loop ESW Discharge Pedestal has a Crack	11/03/10	
10-85514	HPI-K0009 50.59 RAD Potential Inappropriate use of Admin Exemption	11/08/10	
10-85821	Maintenance Rule Failure Review Form Not Completed for CR 09-54502	11/15/10	
10-85828	PIU Not Notified to Uncheck MR Box for XR 09-54129	11/15/10	
10-85839	Maintenance Rule Failure Review Form Not Completed for CR 10-75635	11/15/10	
10-85940	Maintenance Rule Failure Review Form for CR 10-78036 Contains Incorrect Statement	11/17/10	
10-85985	Incomplete Documentation of Maintenance Rule Failure Reviews	11/17/10	
10-85992	NRC Questions Regarding WARF, RISB, OSSC Yard	11/17/10	
10-86075	Maintenance Crews PI's Missed Opportunity	11/19/10	
10-86080	Question on Control Room Operator Aids	11/18/10	
10-86084	Excessive Leakage from ESW A Pump Leak-Off Line	11/19/10	
10-86086	Cart at 1B 599' Containing Excel Scaffolding not Blocked	11/19/10	
10-86108	Maintenance Rule Improvement Opportunities	11/19/10	
10-86153	PYRP Decreased Usage of the RP Pre-job briefing checklist	11/22/10	

# MISCELLANEOUS

Number	Description or Title	Date or Revision
	Corrective Action Review Board (CARB) Package	11/09/10
	Management Alignment and Ownership Meeting	11/04/10 &
	(MAOM) Package	11/03/10 &
		11/16/10
	eSOMS Narrative Logs	11/01/10 &
	-	11/02/10
	Operator Aids Index	11/18/10
WO 200404422	"New PM" Replace APRM 15V Regulator Cards Z408, Z425 and Z427	11/03/10
WO 200435236	Troubleshoot and Rework Cause of Power Supply PS-23 not Powering Up	11/03/10
	Perry Nuclear Power Station RFO-11 Post Outage ALARA Report	10/18/07
	Perry Nuclear Power Station RFO-12 Post Outage ALARA Report	07/30/10
91-0139	10 CFR 50.59 Safety Evaluation for WARF	03/01/93
91-71777	Design Change Request for Options for the Construction of a Waste Abatement\$ Reclamation Facility	07/08/91
92-06	Environmental Evaluation for Construction and Operation of the LLRWSPF	09/02/92
10-72025 & 10-72026	Operability Determination for Voltage Adequacy During Automatic LOCA Load Sequencing at Minimum Grid Voltage	0
	Emergency Service Water System - System Health Reports (3 <sup>rd</sup> Quarter 2005 through 2 <sup>nd</sup> Quarter 2010	
NEI 09-07	Fostering a Strong Nuclear Safety Culture	06/09
CA-SA-10-103	Perry Independent Safety Culture Assessment	06/23/10
NOBP-LP-2501	2010 Annul Safety Culture Assessment Perry SCWE Results for August 2010	12
NOBP-LP-2502	1 <sup>st</sup> and 2 <sup>nd</sup> Quarter 2010 Safety Culture Assessment	07/28/10
NOBP-LP-2502	3rd Quarter 2010 Safety Culture Assessment	09/30/10

## LIST OF ACRONYMS USED

ACE	Apparent Cause Evaluation
ADAMS	Agencywide Document Access Management System
AFPL	Automatic Flow Demand Limiter
APRM	Axial Power Range Monitor
CAP	Corrective Action Program
CARB	Corrective Action Review Board
CFR	Code of Federal Regulations
CR	Condition Report
ECP	Employee Concerns Program
ESW	Emergency Service Water
FCV	Flow Control Valve
GD	General Desing
IMC	Inspection Manual Chapter
IP	Inspection Procedure
MOAM	Management Alignment and Ownership Meetings
NCV	Non-Cited Violation
NEI	Nuclear Energy Institute
NRC	U.S. Nuclear Regulatory Commission
OE	Operating Experience
OSSC	On-Site Storage and Container
PARS	Publicly Available Records System
PI&R	Problem Identification & Resolution
RAD	Regulatory Applicability Determination
RISF	Radioactive Interim Storage Facility
SCWE	Safety-Conscious Work Environment
SDP	Significance Determination Process
UFSAR	Updated Final Safety Analysis Report
WARF	Waste Abatement Reclamation Facility
WO	Work Order

M. Bezilla

If you contest the subject or severity of the findings, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the U. S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001, with a copy to the Regional Administrator, U.S. Nuclear Regulatory Commission - Region III, 2443 Warrenville Road, Suite 210, Lisle, IL 60532-4352; the Director, Office of Enforcement, U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001; and the Resident Inspector Office at the Perry Nuclear Power Plant. In addition, if you disagree with the cross-cutting aspect of any finding in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your disagreement, to the Regional Administrator, Region III, and the NRC Resident Inspector at the Perry Nuclear Power Plant.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, and its enclosure, and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's document system (ADAMS), accessible from the NRC Web site at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> (the Public Electronic Reading Room).

Sincerely,

#### /RA/

Jamnes L. Cameron, Chief Branch 6 Division of Reactor Projects

Docket Nos. 50-440 License Nos. NPF-58

Enclosure: Inspection Report 05000440/2010007 w/Attachment: Supplemental Information

cc w/encl: Distribution via ListServ

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Letter to M. Bezilla from J. Cameron dated December 30, 2010.

# SUBJECT: PERRY NUCLEAR POWER PLANT - PROBLEM IDENTIFICATION AND RESOLUTION INSPECTION REPORT 05000440/2010007

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