



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I**  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

November 5, 2013

Mr. George H. Gellrich, Vice President  
Calvert Cliffs Nuclear Power Plant  
Constellation Energy Nuclear Group, LLC  
1650 Calvert Cliffs Parkway  
Lusby, MD 20657-4702

**SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT - NRC PROBLEM  
IDENTIFICATION AND RESOLUTION INSPECTION REPORT  
05000317/2013008 AND 05000318/2013008**

Dear Mr. Gellrich:

On September 27, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Calvert Cliffs Nuclear Power Plant, Units 1 and 2. The enclosed report documents the inspection results, which were discussed on September 27, 2013, with you and other members of your staff.

This inspection examined activities conducted under your license as they relate to identification and resolution of problems and compliance with the Commission's rules and regulations and conditions of your license. Within these areas, the inspection involved examination of selected procedures and representative records, observations of activities, and interviews with personnel.

Based on the samples selected for review, the inspectors concluded that Constellation was generally effective in identifying, evaluating, and resolving problems. Constellation personnel identified problems and entered them into the corrective action program (CAP) at a low threshold. Constellation prioritized and evaluated issues commensurate with the safety significance of the problems and corrective actions were generally implemented in a timely manner.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, 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 (PARS) component of the

NRC's Agencywide Documents Access and Management 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 R Powell for/***

Daniel L. Schroeder, Chief  
Reactor Projects Branch 1  
Division of Reactor Projects

Docket Nos: 50-317 and 50-318  
License Nos: DPR-53 and DPR-69

Enclosure: Inspection Report 05000317/2013008 and 05000318/2013008  
w/Attachment: Supplemental Information

cc w/encl: Distribution via ListServ

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U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket Nos: 50-317 and 50-318

License Nos: DPR-53 and DPR-69

Report No: 05000317/2013008 and 05000318/2013008

Licensee: Constellation Energy Nuclear Group, LLC (Constellation)

Facility: Calvert Cliffs Nuclear Power Plant, Units 1 and 2 (CCNPP)

Location: Lusby, MD

Dates: September 9 - 13, 2013  
September 23 - 27, 2013

Team Leader: S. Barber, Senior Project Engineer, Division of Reactor Projects (DRP)

Inspectors: H. Gray, Senior Reactor Inspector, Division of Reactor Safety  
E. Torres, Resident Inspector, DRP  
S. McCarver, Reactor Inspector, DRP

Approved by: Daniel L. Schroeder, Chief  
Reactor Projects Branch 1  
Division of Reactor Projects

## SUMMARY OF FINDINGS

IR 05000317/2013008 and 05000318/2013008; 09/09/2013 – 09/27/2013; Calvert Cliffs Nuclear Power Plant, Units 1 and 2 (CCNPP); Biennial Baseline Inspection of Problem Identification and Resolution.

This NRC team inspection was performed by one resident inspector and three regional inspectors. No findings were identified during this inspection. 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

The inspectors concluded that Constellation was generally effective in identifying, evaluating, and resolving problems. Constellation personnel identified problems, entered them into the CAP at a low threshold, and prioritized issues commensurate with their safety significance. In most cases, Constellation appropriately screened issues for operability and reportability, and performed causal analyses that appropriately considered extent of condition, generic issues, and previous occurrences. The inspectors also determined that Constellation typically implemented corrective actions to address the problems identified in the CAP in a timely manner.

The inspectors concluded that, in general, Constellation adequately identified, reviewed, and applied relevant industry operating experience to Calvert Cliffs operations. In addition, based on those items selected for review, the inspectors determined that Constellation self-assessments and audits were thorough.

Based on the interviews the inspectors conducted over the course of the inspection, observations of plant activities, and reviews of individual CAP and employee concerns program issues, the inspectors did not identify any indications that site personnel were unwilling to raise safety issues nor did they identify any conditions that could have had a negative impact on the site's safety conscious work environment.

## REPORT DETAILS

### 4. OTHER ACTIVITIES (OA)

#### 4OA2 Problem Identification and Resolution (71152B)

This inspection constitutes one biennial sample of problem identification and resolution as defined by Inspection Procedure 71152. All documents reviewed during this inspection are listed in the Attachment to this report.

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

##### a. Inspection Scope

The inspectors reviewed the procedures that described Constellation Energy Nuclear Group, LLC's (CENG) corrective action program (CAP) at Calvert Cliffs. To assess the effectiveness of the CAP, the inspectors reviewed performance in three primary areas: problem identification, prioritization and evaluation of issues, and corrective action implementation. The inspectors compared performance in these areas to the requirements and standards contained in 10 CFR 50, Appendix B, Criterion XVI, "Corrective Action," and CNG-CA-1.01-1000, "Corrective Action Program." For each of these areas, the inspectors considered risk insights from the station's risk analysis and reviewed condition reports selected across the seven cornerstones of safety in the NRCs Reactor Oversight Process. Additionally, the inspectors attended multiple Plan-of-the-Day, Condition Report Screening, and Management Review Committee meetings. The inspectors selected items from the following functional areas for review: engineering, operations, maintenance, emergency preparedness, radiation protection, chemistry, physical security, and oversight programs.

##### (1) Effectiveness of Problem Identification

In addition to the items described above, the inspectors reviewed system health reports, a sample of completed corrective and preventative maintenance work orders, completed surveillance test procedures, operator logs, and periodic trend reports. The inspectors also completed field walkdowns of various systems on site, such as the emergency diesel generators, station battery 11, 12, 21 and 22 rooms, component cooling head tanks, component cooling pump rooms, service water head tanks, refueling water tanks to ensure that observable deficiencies were documented. Additionally, the inspectors reviewed a sample of condition reports (CRs) written to document issues identified through internal self-assessments, audits, emergency preparedness drills, and the operating experience program. The inspectors completed this review to verify that Constellation entered conditions adverse to quality into their CAP as appropriate.

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

The inspectors reviewed the evaluation and prioritization of a sample of CRs issued since the last NRC biennial Problem Identification and Resolution inspection completed in September 2011. The inspectors also reviewed CRs that were assigned lower levels of significance that did not include formal cause evaluations to ensure that they were properly classified. The inspectors' review included the appropriateness of the assigned significance, the scope and depth of the causal analysis, and the timeliness of

resolution. The inspectors assessed whether the evaluations identified likely causes for the issues and developed appropriate corrective actions to address the identified causes. Further, the inspectors reviewed equipment operability determinations, reportability assessments, and extent-of-condition reviews for selected problems to verify these processes adequately addressed equipment operability, reporting of issues to the NRC, and the extent of the issues.

(3) Effectiveness of Corrective Actions

The inspectors reviewed Constellation's completed corrective actions through documentation review and, in some cases, field walkdowns to determine whether the actions addressed the identified causes of the problems. The inspectors also reviewed CRs for adverse trends and repetitive problems to determine whether corrective actions were effective in addressing the broader issues. The inspectors reviewed Constellation's timeliness in implementing corrective actions and effectiveness in precluding recurrence for significant conditions adverse to quality. The inspectors also reviewed a sample of CRs associated with selected non-cited violations (NCVs) and findings to verify that Constellation's personnel properly evaluated and resolved these issues. The inspectors also reviewed a sample of CRs associated with selected NCVs, findings, and licensee event reports to verify that Constellation personnel properly evaluated and resolved these issues. In addition, the corrective action review was expanded to five years to evaluate Constellation's actions related to system performance issues identified for the 125 VDC system.

b. Assessment

(1) Effectiveness of Problem Identification

Based on the samples selected, the inspectors determined that, in general, Constellation identified problems and entered them into the CAP at a low threshold. Constellation personnel at Calvert Cliffs initiated approximately 23,000 CRs between September 2011 and September 2013. Based on the samples reviewed, the inspectors determined that Constellation trended equipment and programmatic issues, and appropriately identified problems in CRs. The inspectors verified that conditions adverse to quality identified through this review were entered into the CAP as appropriate. Additionally, inspectors concluded that personnel were identifying trends at low levels. In general, inspectors did not identify any issues or concerns that had not been appropriately entered into the CAP for evaluation and resolution. In response to several questions and minor equipment observations identified by the inspectors during plant walkdowns, Constellation personnel promptly initiated CRs and/or took immediate action to address the issues.

(2) Effectiveness of Prioritization and Evaluation of Issues

The inspectors determined, based on the samples selected, that Constellation, in general, appropriately prioritized and evaluated issues commensurate with the safety significance of the identified problem. CRs were screened for operability and reportability, categorized by significance, and assigned to a department for evaluation and resolution. The inspectors observed the various CR screening and management review groups and noted that they considered equipment operability and reportability, human performance issues, radiological safety concerns, repetitiveness, adverse trends, and potential impact on safety conscious work environment (SCWE) during the conduct of these reviews.

Items reviewed by the inspectors during the inspection were categorized for evaluation and resolution commensurate with the significance of the issues. Guidance provided by Constellation procedure, CNG-CA-1.01-1000, "Corrective Action Program," for categorization appeared sufficient to ensure consistent implementation based on the sample of CRs reviewed by the inspectors. In general, issues were appropriately screened and prioritized commensurate with their safety significance.

The inspectors reviewed a sample of root cause analyses with included common cause analyses, apparent cause analyses, and a number of individual CR evaluations. For the evaluations reviewed, the inspectors noted that Constellation's evaluations were generally thorough and appropriately considered extent of condition, generic issues, and previous occurrences.

(3) Effectiveness of Corrective Actions

The inspectors concluded that corrective actions for identified deficiencies were typically timely and adequately implemented. The inspectors also concluded that Constellation performed in-depth effectiveness reviews for significant issues to verify that implemented corrective actions were effective. The inspectors' review of the CR disposition documentation and verification of corrective action implementation showed that Constellation routinely developed adequate corrective action as evidenced by the lack of repetitive events. The inspectors also reviewed corrective actions for the 125 VDC system for the last five years to evaluate Constellation's actions for various system performance issues and noted comprehensive actions for significant issues, and reasonable corrective actions for minor issues.

c. Findings

No findings were identified.

.2 Assessment of the Use of Operating Experience (OE)

a. Inspection Scope

The inspectors reviewed a sample of CRs associated with review of industry OE to determine whether Constellation appropriately evaluated the OE information for applicability to Calvert Cliffs and had taken appropriate actions, when warranted. The inspectors also reviewed evaluations of OE documents associated with a sample of NRC generic communications to ensure that Constellation adequately considered the

underlying problems associated with the issues for resolution via their CAP. In addition, the inspectors observed various plant activities to determine if the station considered industry OE during the performance of routine and infrequently performed activities.

b. Assessment

The inspectors determined that Constellation appropriately considered industry OE information for applicability, and used the information for corrective and preventive actions to identify and prevent similar issues when appropriate. The inspectors determined that OE was appropriately applied and lessons learned were communicated and incorporated into plant operations and procedures when applicable. The inspectors also observed that industry OE was routinely discussed and considered during the conduct of condition report screening meetings and pre-job briefs.

c. Findings

No findings were identified.

.3 Assessment of Self-Assessments and Audits

a. Inspection Scope

The inspectors reviewed a sample of audits, including the most recent audit of the CAP, departmental self-assessments, and assessments performed by independent organizations. These reviews were performed to determine if problems identified through these assessments were entered into the CAP when appropriate and whether corrective actions were initiated to address identified deficiencies. The effectiveness of the audits and assessments was evaluated by comparing audit and assessment results against self-revealing and NRC-identified observations made during the inspection.

b. Assessment

The inspectors concluded that self-assessments, audits, and other internal Constellation assessments were generally critical, probing, thorough, and effective in identifying issues. The inspectors observed that these audits and self-assessments were completed in a methodical manner by personnel knowledgeable in the subject matter. The audits and self-assessments were completed to a sufficient depth to identify issues that were entered into the CAP for evaluation. In general, corrective actions associated with the identified issues were implemented commensurate with their safety significance.

c. Findings

No findings were identified.

4. Assessment of Safety Conscious Work Environment

a. Inspection Scope

During interviews with station personnel, the inspectors assessed the safety conscious work environment at Calvert Cliffs. Specifically, the inspectors interviewed personnel to determine whether they were hesitant to raise safety concerns to their management

and/or the NRC. The inspectors also interviewed the station Employee Concerns Program coordinator to determine what actions are implemented to ensure employees were aware of the program and its availability with regards to raising safety concerns. The inspectors reviewed the Employee Concerns Program files to ensure that Constellation entered issues into the CAP, when appropriate.

b. Assessment

During interviews, Calvert Cliffs staff expressed a willingness to use the CAP to identify plant issues and deficiencies and stated that they were willing to raise safety issues. The inspectors noted that no one interviewed stated that they personally experienced or were aware of a situation in which an individual had been retaliated against for raising a safety issue. All persons interviewed demonstrated an adequate knowledge of the CAP and the Employee Concerns Program. Based on these limited interviews, the inspectors concluded that there was no evidence of an unacceptable safety conscious work environment and no significant challenges to the free flow of information.

c. Findings

No findings were identified.

4OA6 Meetings, Including Exit

On September 27, 2013, the inspectors presented the inspection results to Mr. George Gellrich, Site Vice President, and other members of the Calvert Cliffs staff. The inspectors confirmed that proprietary information was reviewed by inspectors during the course of the inspection, that any proprietary information that was reviewed was returned to Constellation, and that the content of this report includes no proprietary information.

**ATTACHMENT: SUPPLEMENTAL INFORMATION**

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

Licensee personnel

G. Gellrich, Site Vice President  
M. Flaherty, Plant General Manager  
S. Henry, Manager, Operations  
D. Lauver, Director, Licensing  
D. Dellario, Manager, Engineering  
H. Daman, Manager, Maintenance  
M. Jones, Director, Performance Improvement Unit  
C. Neyman, Senior Engineering Analyst, Licensing  
J. Schoolcraft, Performance Improvement Unit  
J. Phifer, Senior Analyst, Quality and Performance Assessment  
S. Loeper, Principal Engineer, System Engineering  
E. Krehling, Principal Engineer, System Engineering  
R. Jones, Supervisor, Engineering Programs  
C. Grooms, General Supervisor, Operations Support  
L. Smith, General Supervisor, Engineering Asset Management  
G. Dare, Senior Engineering Analyst, System Engineering  
M. Major, Senior Engineering Analyst, System Engineering  
R. Bleacher, Operations Technical Writer  
J. Gaines, General Supervisor Shift Operations  
P. Beavers, General Supervisor Operations Training  
R. Stark, Design Engineer  
J. Wynn, System Engineer  
C. Conover, Chemistry Supervisor  
J. Stone, Supervisor Engineering

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

Opened and Closed

None

**LIST OF DOCUMENTS REVIEWED**

**Section 40A2: Identification and Resolution of Problems**

Audits and Self-Assessments

SEC-12-01-C, Security, Access Authorization & Fitness For Duty Programs  
SEC-13-01-C, Access Authorization & Fitness For Duty Programs  
OPS-12-01-C, Nuclear Operations Program  
SA-2012-000003, OE Program Focused Self-Assessment  
SA-2012-000005, Department Corrective Action Review Team (DCART) Effectiveness Self-Assessment

SA-2013-000119, EPRI guidelines for diesel generator Sulfate, feed and bleed strategies  
 MAI-13-01-C, Maintenance Program Audit  
 CHE-13-01-C, Chemistry Program  
 BM-2012-00032, Benchmark on Emergency Preparedness, post Seismic  
 BM-2011-00225, Benchmark on Water Treatment to reduce corrosion  
 BM-2013-00119, Benchmark on Closed Cooling Water chemistry

Condition Reports (CRs)

*2013-007311	2012-004280	2013-000481
*2013-007318	2012-004281	2013-000752
*2013-007337	2012-004282	2013-001208
*2013-007377	2012-004370	2013-001909
*2013-007379	2012-004552	2013-003275
*2013-007626	2012-004578	2013-003346
2008-001434	2012-004615	2013-003825
2009-004927	2012-004936	2013-003857
2010-009891	2012-004971	2013-004073
2010-010103	2012-005108	2013-004141
2010-010486	2012-005425	2013-004322
2010-011675	2012-005686	2013-004554
2011-003061	2012-005789	2013-004967
2011-003714	2012-005791	2013-005357
2011-004110	2012-005793	2013-005410
2011-005150	2012-005794	2013-005427
2011-005197	2012-005795	2013-005598
2011-005536	2012-005796	2013-005657
2011-005604	2012-005797	2013-005740
2011-006211	2012-005798	2013-005853
2011-006679	2012-006059	2013-006072
2011-006836	2012-006199	2013-006074
2011-006838	2012-006574	2013-006130
2011-008317	2012-006926	2013-006142
2011-009223	2012-007079	2013-006244
2011-009544	2012-007098	2013-006274
2011-010259	2012-007099	2013-006276
2011-010294	2012-007427	2013-006283
2011-010518	2012-007570	2013-006334
2011-010612	2012-009031	2013-006371
2011-011302	2012-009077	2013-006732
2011-011345	2012-009564	2013-006995
2011-011569	2012-009838	2013-007069
2012-000894	2012-009976	2013-007091
2012-000895	2012-009977	2013-007123
2012-001027	2012-010499	2013-007233
2012-001140	2012-010578	2013-007239
2012-001294	2012-010579	2013-007254
2012-002079	2012-010581	2013-007256
2012-002344	2012-010581	2013-007263
2012-004150	2012-010583	2013-007271
2012-004225	2012-010584	2013-007275
2012-004279	2012-011499	2013-007276

2013-007281  
2013-007282

2013-007283  
2013-007284

2013-007286  
2013-007288

\*Identified during this inspection

#### Non-Cited Violations and Findings

05000317/318/2011005-01, CCNPP Did Not Adequately Prescribe and Implement Procedures Associated with Protected Equipment  
05000318/2012004-02, Corrective Actions Not Completed for Drains in the Intake Structure  
05000317/318/2013003-02, Inadequate Steam Generator Tube Rupture Emergency Operating Procedure  
05000317/318/2011004-01, Inadequate corrective actions associated with submerged saltwater pump motor cables  
05000317/318/2012002-01, Failure to establish test program for auxiliary feedwater emergency air accumulators  
05000317/318/2012009-01, Failure to establish testing program for engineering safety actuation system shutdown sequencer  
0500318/2013002-01, Failure to establish adequate design control measures for diesel fuel oil cloud point  
05000317/318/2013003-01, Failure to establish a test program for diesel fuel oil check valves  
05000317/318/2012003-01, PORV Maintenance Procedure Inadequacy  
05000317/318/2011004-01, Inadequate Protected Equipment Controls

#### Operating Experience

RIS 12-03, Reintegration of Security into the ROP  
IN-12-04, Impacts on Normal Plant Operations Due to Leaks or Spills of Chemicals  
RIS 12-09, Endorsement of Nuclear Energy Institute Guidance Using an Alternative Method to Manage Cumulative Fatigue at Nuclear Power Reactor Sites  
IN 2012-01, Seismic considerations-principally issues involving tanks  
IN 2012-03, Design vulnerability in electrical power systems  
BM-2013-00107, Benchmark on Steam Generator Management  
BM-2011-00193 Benchmark and Self-Assessment on Operating Experience (OE) of PI&R related to plant deficiencies

#### Procedures

CNG-CA-1.01-1000, "Corrective Action Program," Rev. 00902  
CNG-CA-1.01-1001, "Management Review Committee," Rev. 00500  
CNG-CA-1.01-1003, "Performance Improvement Coordinators," Rev. 00100  
CNG-CA-1.01-1004, "Root Cause Analysis," Rev. 00804  
CNG-CA-1.01-1005, "Apparent Cause Evaluation," Rev. 00200  
CNG-CA-1.01-1007, "Performance Improvement Program Trending and Analysis," Rev. 00200  
CNG-CA-1.01-1010, "Use of Operating Experience," Rev. 01000  
CNG-CA-1.01-1011, "Management Observation Program," Rev. 00501  
CNG-OP-1.01-2010, Operator Workaround/Challenge Control, Revision 00000  
CNG-CA-1.01-GL200, "Causal Analysis Handbook," Rev. 00501  
CNG-CA-1.01-GL400, "Fleet Trend Codes," Rev. 00600  
CNG-CA-1.01-GL700, "Departmental Corrective Action Review Team," Rev. 00100  
CNG-CA-1.01-GL800, "Corrective Action Completion Evaluation," Rev. 00200  
CNG-CA-2.01-1000, Self-Assessment and Benchmarking Process, Revision 00702  
NO-1-123, Managing Operator Impacts, Revision 00101

NO-1-200, Control of Shift Activities, Revision 05200  
 SS-100, Conduct of Security Equipment Modification, Revision 10  
 CP-0222, Specifications and Surveillance Diesel Generator Jacket Cooling System, Revision 01300  
 EOP-5, Loos of Coolant Accident, Revision 22  
 EOP-2, Loos of Offsite Power/Loss of Forced Circulation, Revision 14  
 EOP-8, Functional Recovery Procedure, Revision 33  
 AOP-7J, Loss of 120 Volt Vital AC or 125 Volt Vital DC Power, Revision 19  
 OI-26B, 120 Volt Vital AC and Computer AC, Revision 22  
 CNG-NL-1.01-1008, "Preparation and Management of External Inspections," Rev 00700  
 CNG-AM-1.01-1023, Maintenance Rule Program, Rev 00201  
 CNG-NL-1.01-1008, Preparation and Management of External Inspections, Revision 00700  
 CNG-AM-1.01-1023, Maintenance Rule Program, Revision 00201  
 MAI-13-01-C, Maintenance Program Audit, Revision 0

#### Work Orders

C90624813	C92092763	C92311279
C91702359	C92172212	C92328793
C91851962	C92201042	C92371110
C91869686	C92234558	C92405589
C91938041	C92234559	
	C92299069	

#### Drawings

60727sh0002, Diesel Generator Cooling Water, Starting Air, Fuel, & Lube Oil Diesel No. 1B, Revision 39  
 60710sh0001, Component Cooling System, Revision 39  
 63017sh0002, Single Line Diagram Reactor 480V MCC 214R, Revision 44  
 63017sh0001, Single Line Diagram Reator 480V MCC 204R, Revision 44  
 61017sh0001, Single line Diagram Reactor 480V MCC 104R, Revision 41  
 61017sh0002, Single line Diagram Reactor 480V MCC 114R, Revision 45  
 63022, Single Line Diagram 120V AC Vital System, Revision 41  
 61058, Logic Diagram Engineered Safety Features Actuation System Unit 1, Revision 36  
 61022sh0001, Single Line Diagram 120V AC Vital Systems, Revision 51  
 61030, Single Line Diagram Vital 120V AC & 125V DC Emergency 250V DC FSAR Fig. No. 8-5, Revision 32  
 63024, Single Line Diagram 125V DC Vital System Bus 21, Revision 38  
 61005, Meter and Relay Diagram 4KV System Unit Buses 11 and 14 FSAR Fig No.8-4, Revision 36  
 61025, Single Line Diagram 125V DC Vital System Buses 12 and 22, Revision 31  
 61024, Single Line Diagram 125V DC Vital System Bus 11, Revision 52

#### Miscellaneous

CCNPP Utilities Service Alliance Nuclear Safety Culture Assessment, dated August 2011  
 CCNPP Utilities Service Alliance Nuclear Safety Culture Assessment, dated August 2013  
 OI-43C, Unit 2 Main Turbine Performance Evaluation Checks, Rev 20  
 NO-1-203, Operations Performance Evaluation Requirements, RT 2-98-4-O-M, Rev 4  
 Shift Turnover Information Sheets dated 09/12/13 and 09/25/13

Security Maintenance Request for Period 01/01/13 through 09/12/13  
Agenda – Condition Report and OE Screening Committee dated 09/10/13  
Agenda – Management Review Committee dated 09/11/13 and 09/25/13  
Quarterly Operations Aggregate Impact Assessment, July 2013  
Part 21 Report 2002-10, Inadequate electric motor winding slot fill, Revisions 1 & 2  
Regulatory Guide 1.52, Design, Testing, and Maintenance Criteria for Post Accident  
Engineered-Safety-Feature Atmosphere Cleanup System Air Filtration and Adsorption  
Units of Light-Water-Cooled Nuclear Power Plants, Revision 2, March 1978  
Purchase Order 421690, Containment Air Cooler and Iodine Removal Unit Motors  
EPRI Technical Report, Closed Cooling Water Chemistry Guideline, Revision 1  
ANSI N41.12-1975, IEEE Standards Criteria for Class 1E Power Systems for Nuclear Power  
Generating Stations, March 14, 1975  
EP EAL Upgrade to NEI 99-01, Rev 5, as MRC approved on 9/23/2013  
EP Department Health Indicator for 2012-2013  
PQA Audit EPP-13-01-C, Emergency Preparedness Program, dated 2/14/2013, Revision 0  
SA-2012-000046, Maintenance Rule (a)(3) Self-Assessment for Nov 2010-Oct 2012, Rev 0  
SA- 2012-000090, Maintenance Self-Assessment on Supervisor Training, Revision 0  
Maintenance Rule Program Health Report for 1/1/2013-3/31/2013, Revision 0  
Maintenance Department Excellence Plan for 2013, Revision 0  
Maintenance Corrective Action Program Health Report for August 2013, Revision 0

**LIST OF ACRONYMS**

ACE	Apparent Cause Evaluation
ADAMS	Agency-Wide Documents Access and Management System
CAP	Corrective Action Program
CCA	Common Cause Analysis
CCNPP	Calvert Cliffs Nuclear Power Plant
CFR	Code of Federal Regulations
CR	Condition Report
CRSC	Condition Report Screening Committee
ECP	Employee Concerns Program
MRC	Management Review Committee
NRC	Nuclear Regulatory Commission
OE	Operating Experience
PARS	Publicly Available Records
RCA	Root Cause Analysis
SCWE	Safety Conscious Work Environment
SDP	Significance Determination Process
VDC	Volts Direct Current