



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

July 8, 2013

Mr. Larry Weber
Senior Vice President and
Chief Nuclear Officer
Indiana Michigan Power Company
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106

SUBJECT: DONALD C. COOK NUCLEAR POWER PLANT, UNITS 1 AND 2
BASELINE EMERGENCY PREPAREDNESS BIENNIAL EXERCISE
INSPECTION REPORT 05000315/2013503; 05000316/2013503

Dear Mr. Weber:

On June 7, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Donald C. Cook Nuclear Power Plant, Units 1 and 2. The enclosed report documents the results of this inspection, which were discussed on June 7, 2013, with Mr. J. Gebbie and other members of your staff.

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

No findings were identified during this inspection.

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 Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Joseph Maynen, Acting Chief
Plant Support Branch
Division of Reactor Safety

Docket Nos. 50-315; 50-316
License Nos. DPR-58; DPR-74

Enclosure: Inspection Report 05000315/2013503; 05000316/2013503
w/Attachment: Supplemental Information

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-315; 50-316
License Nos: DPR-58; DPR-74

Report No: 05000315/2013503; 05000316/2013503

Licensee: Indiana Michigan Power Company

Facility: Donald C. Cook Nuclear Power Plant, Units 1 and 2

Location: Bridgman, MI

Dates: June 3 – 7, 2013

Inspectors: R. Jickling, Senior Emergency Preparedness Inspector
J. Beavers, Emergency Preparedness Inspector
J. Ellegood, Senior Resident Inspector
E. Schrader, Emergency Preparedness Specialist
N. Valos, Senior Reactor Analyst

Approved by: J. Maynen, Acting Chief
Plant Support Branch
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000315/2013503; 05000316/2013503; 06/03/2013 – 06/07/2013; Donald C. Cook Nuclear Power Plant, Units 1 and 2; Baseline Emergency Preparedness Exercise Evaluation - Hostile Action Event; Exercise Evaluation Scenario Review; Performance Indicator Verification.

This report covers a one-week period of announced baseline inspection by three Region III inspectors, one resident inspector, and one emergency preparedness specialist. 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.

A. NRC-Identified and Self-Revealed Findings

Cornerstone: Emergency Preparedness

No findings were identified.

B. Licensee-Identified Violations

No violations were identified.

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP7 Exercise Evaluation – Hostile Action Event (71114.07)

.1 Exercise Evaluation

a. Inspection Scope

Title 10, Code of Federal Regulations (CFR), Part 50, Appendix E, Section IV.F.2.j, requires in part, that nuclear power reactor licensees, in each eight calendar year exercise cycle, provide the opportunity for their Emergency Response Organization (ERO) to demonstrate proficiency in the key skills necessary to respond to a Hostile Action (HA) directed at the plant site. Donald C. Cook Nuclear Power Plant designed the June 4, 2013, exercise to satisfy this requirement, and the NRC inspected the Donald C. Cook Nuclear Power Plant HA event exercise to assess the licensee's ability to effectively implement their Emergency Plan during an HA event and adequately protect public health and safety.

The exercise evaluation consisted of the following reviews and assessments:

- The adequacy of the licensee's performance in the biennial exercise conducted on June 4, 2013, regarding the implementation of the Risk-Significant Planning Standards (RSPSs) in 10 CFR 50.47 (b)(4), (5), (9), and (10), which address emergency classification, offsite notification, radiological assessment, and Protective Action Recommendations (PARs), respectively.
- The overall adequacy of the licensee's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the Control Room Simulator (CRS), Alternate Emergency Response Facility, Incident Command Post (ICP), and the Emergency Operations Facility (EOF).
- A review of other performance areas, such as the licensee ERO's recognition of abnormal plant conditions; command and control, including interactions with site security staff; intra - and inter-facility communications; prioritization of mitigating activities; utilization of repair and field monitoring teams; interface with offsite agencies, including local law enforcement agencies; staffing and procedure adequacy; and the overall implementation of the Emergency Plan and its implementing procedures.
- Past performance issues from NRC Inspection Reports (IRs) to determine the effectiveness of corrective actions, as demonstrated during this exercise, to ensure compliance with 10 CFR 50.47(b)(14).

- The adequacy of the licensee's post-exercise critiques, to evaluate Donald C. Cook Nuclear Power Plant's self-assessment of its ERO performance during the June 4, 2013, exercise and to ensure compliance with 10 CFR Part 50, Appendix E, Section IV.F.2.g.

The inspectors reviewed various documents, which are listed in the Attachment to this report. This inspection activity satisfied one inspection sample for the exercise evaluation on a biennial basis.

This exercise evaluation inspection constituted one sample as defined in Inspection Procedure (IP) 71114.07-06.

b. Findings

No findings were identified.

1EP8 Exercise Evaluation – Scenario Review (71114.08)

a. Inspection Scope

Prior to the inspection activity, the inspectors conducted an in-office review of the exercise objectives and scenario submitted to the NRC using IP 71114.08, "Exercise Evaluation - Scenario Review," to determine if the exercise would test major elements of the Emergency Plan, as required by 10 CFR 50.47(b)(14). This inspection activity represents one sample on a biennial cycle.

The inspectors reviewed various documents, which are listed in the Attachment to this report. This inspection activity satisfied one inspection sample for the exercise evaluation on a biennial basis.

This review of the exercise objectives and scenario constituted one sample as defined in IP 71114.08-06.

b. Findings

No findings were identified.

4. OTHER ACTIVITIES

Cornerstone: Emergency Preparedness

4OA1 Performance Indicator Verification (71151)

.1 Drill/Exercise Performance

a. Inspection Scope

The inspectors sampled licensee submittals for the Drill and Exercise Performance (DEP) Indicator, for the period from the first quarter 2012 through first quarter 2013. To determine the accuracy of the Performance Indicator (PI) data reported during those periods, PI definitions and guidance contained in the Nuclear Energy Institute (NEI) Document 99-02, "Regulatory Assessment Performance Indicator

Guideline,” Revision 6, were used. The inspectors reviewed the licensee’s records associated with the PI to verify that the licensee accurately reported the indicator in accordance with relevant procedures and the NEI guidance. Specifically, the inspectors reviewed licensee records and processes including procedural guidance on assessing opportunities for the PI, assessments of PI opportunities during pre-designated CRS training sessions, and performance during other drills. Documents reviewed are listed in the Attachment to this report.

This inspection constituted one DEP sample as defined in IP 71151-05.

b. Findings

No findings were identified.

.2 Emergency Response Organization Drill Participation

a. Inspection Scope

The inspectors sampled licensee submittals for the ERO Drill Participation PI, for the period from the first quarter 2012 through the first quarter 2013. To determine the accuracy of the PI data reported during those periods, PI definitions and guidance contained in the NEI Document 99-02, “Regulatory Assessment Performance Indicator Guideline,” Revision 6, were used. The inspectors reviewed the licensee’s records associated with the PI to verify that the licensee accurately reported the indicator in accordance with relevant procedures and NEI guidance. Specifically, the inspectors reviewed licensee records and processes including procedural guidance on assessing opportunities for the PI, participation during the 2012 and 2013 drills, and revisions of the roster of personnel assigned to key ERO positions. Documents reviewed are listed in the Attachment to this report.

This inspection constituted one ERO Drill Participation sample as defined in IP 71151-05.

b. Findings

No findings were identified.

.3 Alert and Notification System

a. Inspection Scope

The inspectors sampled licensee submittals for the Alert and Notification System (ANS) PI for the period from the first quarter 2012 through the first quarter 2013. To determine the accuracy of the PI data reported during those periods, PI definitions and guidance contained in the NEI Document 99-02, “Regulatory Assessment Performance Indicator Guideline,” Revision 6, were used. The inspectors reviewed the licensee’s records associated with the PI to verify that the licensee accurately reported the indicator in accordance with relevant procedures and the NEI Guidance. Specifically, the inspectors reviewed licensee records and processes including procedural guidance on assessing opportunities for the PI and results of periodic scheduled ANS operability tests. Documents reviewed are listed in the Attachment to this report.

This inspection constituted one ANS sample as defined in IP 71151-05.

b. Findings

No findings were identified.

4OA6 Management Meetings

.1 Exit Meeting Summary

On June 7, 2013, the inspectors presented the biennial exercise inspection results to Mr. J. Gebbie 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.

.2 Public and Media Briefing

On June 7, 2013, the inspector summarized the NRC's preliminary exercise inspection conclusions at a public and media briefing hosted by the DHS and FEMA Region V Field Office staff at the Berrien County Building in Benton Harbor, Michigan.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee

J. Gebbie, Site Vice President
J. Calhoun, Emergency Preparedness Coordinator
M. Carlson, Vice President of Site Support Services
D. Cantrell, Operations Director
B. Chambers, Emergency Preparedness Manger
K. Henderson, Regulatory Affairs
C. Hutchinson, Nuclear Security Director
S. Lies, Engineering Vice President
J. Nimtz, Emergency Preparedness Coordinator
S. Parton, Plant Manager
J. Ross, Plant Engineer Director
M. Scarpello, Regulatory Assurance Manager
R. Sieber, Training Manger
A. Thompson, Emergency Preparedness Coordinator
C. Wohlgamuth, Regulatory Affairs
T. Woods, Plant Support Director

Nuclear Regulatory Commission

J. Ellegood, Senior Resident Inspector
P. LaFlamme, Resident Inspector

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened, Closed, and Discussed

None

LIST OF DOCUMENTS REVIEWED

The following is a partial list of documents reviewed during the inspection. Inclusion on this list does not imply that the NRC inspector reviewed the documents in their entirety, but rather that selected sections or 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 IR.

1EP7 Exercise Evaluation – Hostile Action Event (71114.07)

- D.C. Cook 2013 Evaluated Exercise Scenario; June 2013
- D.C. Cook Nuclear Plant Emergency Plan; Revision 32
- PMP-2080-EPP-100; Emergency Response; Revision 26
- PMP-2080-EPP-101; Emergency Classification; Revision 17
- RMT-2080-EOF-001; Activation and Operation of the EOF; Revision 24
- RMT-2080-JIC-001; Activation and Operation of the ENC/JIC; Revision 6
- RMT-2080-OSC-001; Activation and Operation of the OSC; Revision 15
- RMT-2080-TSC-001; Activation and Operation of the TSC; Revision 19
- AR 2013-8299; Exercise-Command and Control and Communications Issues; June 6, 2013
- AR 2013-8294; Exercise-Did Not Consider MOF Accountability; June 6, 2013
- AR 2013-8276; Exercise-EOF Dose Assessment Calculation Error; June 6, 2013
- AR 2013-8251; Exercise-Media Message Incorrect Information; June 5, 2013
- AR 2013-8208; Exercise-Simulator Delay During Activation of ERO Callout; June 4, 2013
- AR 2013-6623; Exercise Scenario Not Transmitted Per 10 CFR 50.4; May 2, 2013

1EP8 Exercise Evaluation – Scenario Review

- D.C. Cook 2013 Evaluated Exercise Scenario; April 2013

4OA1 Performance Indicator Verification

- EPP-2080-ANS-001; Siren Performance Verification; January 2012 – March 2013
- Key ERO Personnel and Drill Participation Dates; March 2012 – March 2013
- TRP-2070-TAP-400-OPS; Emergency Plan Performance Indicator for DEP; January 2012 – March 2013

LIST OF ACRONYMS USED

| | |
|-------|---|
| ADAMS | Agencywide Documents Access and Management System |
| ANS | Alert and Notification System |
| AR | Action Request |
| CFR | Code of Federal Regulations |
| CRS | Control Room Simulator |
| DEP | Drill and Exercise Performance |
| DHS | Department of Homeland Security |
| DRS | Division of Reactor Safety |
| EOF | Emergency Operations Facility |
| ERF | Emergency Response Facility |
| ERO | Emergency Response Organization |
| FEMA | Federal Emergency Management Agency |
| HA | Hostile Action |
| ICP | Incident Command Post |
| IP | Inspection Procedure |
| IR | Inspection Report |
| NEI | Nuclear Energy Institute |
| NRC | U.S. Nuclear Regulatory Commission |
| PAR | Protective Action Recommendation |
| PARS | Publicly Available Records System |
| PI | Performance Indicator |
| RSPS | Risk-Significant Planning Standard |

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| DATE | 07/08/13 | 07/08/13 | 07/08/13 | |

OFFICIAL RECORD COPY

Letter to Mr. Larry Weber from Mr. Joseph Maynen dated July 8, 2013.

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