

November 2, 2006

Mr. Kurt M. Haas
General Manager
Big Rock Point Nuclear Plant
Consumers Energy Company
10269 U.S. 31 North
Charlevoix, MI 49720

SUBJECT: BIG ROCK POINT INSPECTION REPORTS 050-00155/06-02(DNMS) AND
072-00043/06-01(DNMS)

Dear Mr. Haas:

On October 18, 2006, the NRC completed inspection activities at the Big Rock Point Restoration Project. The purpose of the inspection was to conduct radiological confirmatory surveys and evaluate the biennial exercise of the Emergency Plan. At the conclusion of on-site inspection on October 18, the inspectors discussed the inspection findings with you and members of your staff.

This inspection consisted of independent radiological confirmatory surveys of areas of the Big Rock Point site that had not been previously surveyed by the NRC, and the observation and evaluation of the Independent Spent Fuel Storage Installation (ISFSI) Emergency Plan exercise. Areas examined during the inspection are identified in the enclosed report. Within these areas, the inspection included a selective examination of procedures and representative records, observations of activities in progress, and interviews with personnel.

Based on the results of this inspection, the NRC did not identify any violations.

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

K. Haas

-2-

We will gladly discuss any questions you may have regarding this inspection.

Sincerely,

/RA/

Jamnes L. Cameron, Chief
Decommissioning Branch

Docket Nos. 050-00155; 072-00043
License No. DPR-6

Enclosures:
Inspection Reports 050-00155/06-02(DNMS); 072-00043/06-01(DNMS)

cc w/encls: R. A. Fenech, Senior Vice President, Nuclear, Fossil, and Hydro Operations
T. Strong, Radiological Protection & Medical Waste Section, Michigan
Department of Environmental Quality

DISTRIBUTION w/encls:
J. Shepherd, FSME
B. Watson, FSME
G. Grant, RIII
S. Reynolds, RIII

DOCUMENT NAME: C:\FileNet\ML063070200.wpd

Publicly Available Non-Publicly Available Sensitive Non-Sensitive

To receive a copy of this document, indicate in the concurrence box "C" = Copy without attach/encl "E" = Copy with attach/encl "N" = No copy

OFFICE	RIII:DNMS	E	RIII:DNMS	RIII:DNMS	
NAME	WGSnell:mb		SJMulay	JLCameron	
DATE	11/02/06		11/02/06	11/02/06	

OFFICIAL RECORD COPY

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos.: 050-00155; 072-00043

License No.: DPR-6

Report Nos.: 050-00155/06-02(DNMS);
072-00043/06-01(DNMS)

Licensee: Consumers Energy Company

Facility: Big Rock Point Restoration Project

Location: 10269 U.S. 31 North
Charlevoix, MI 49720

Dates: October 16 through 18, 2006

Inspectors: William G. Snell, Senior Health Physicist
Sam J. Mulay, Health Physicist

Approved by: Jamnes L. Cameron, Chief
Decommissioning Branch,
Division of Nuclear Materials Safety

Enclosure

EXECUTIVE SUMMARY

**Consumers Energy Company
Big Rock Point Restoration Project
NRC Inspection Reports 050-00155/06-02(DNMS) and 072-00043/06-01(DNMS)**

This routine decommissioning inspection involved confirmatory radiological surveys and observation of a biennial exercise of the Independent Spent Fuel Storage Installation (ISFSI) Emergency Plan.

Operation of an ISFSI

- The licensee adequately demonstrated the effectiveness of the ISFSI Emergency Plan and their ability to implement the Plan in response to an emergency. (Section 1.0)

Inspection of Final Surveys

- A review of licensee survey records and independent confirmatory surveys for residual radioactive contamination confirmed that the licensee is performing remediation and final status surveys consistent with the License Termination Plan. (Section 2.0)

Report Details¹

1.0 Operation of an ISFSI (60855)

1.1 Inspection Scope

The inspectors observed and evaluated the conduct of the Independent Spent Fuel Storage Installation (ISFSI) Emergency Plan biennial exercise.

1.2 Observations and Findings

Section 12.2.2 of Volume 35 of the ISFSI Emergency Plan requires the licensee to perform a biennial exercise to demonstrate emergency response capabilities and the effectiveness of the Emergency Plan. On October 17, 2006, the licensee conducted a biennial exercise based on a simulated earthquake that caused a spent fuel storage cask to tip over. In response to the event, the license appropriately implemented the Emergency Plan, correctly classified the event, augmented personnel as necessary, made timely notifications, conducted appropriate radiological monitoring, and ensured the safety of site personnel.

1.3 Conclusion

The licensee adequately demonstrated the effectiveness of the ISFSI Emergency Plan and their ability to implement the Plan in response to an emergency.

2.0 Inspection of Final Surveys (83801)

2.1 Inspection Scope

The inspectors performed independent radiological confirmatory surveys of selected on-site areas. Licensee records of final status surveys were also reviewed.

2.2 Observations and Findings

Independent radiological gamma scan surveys were performed of the following survey areas using sodium iodide (NaI) scintillation detectors coupled to ratemeters with audible indication: South11C_{1,1} (50% scanned); 20C_{1,1} (80% scanned); South19C_{1,2} (30% scanned); North21C_{1,2} (50% scanned); eastern 20% of East22C_{1,2} (50% scanned); and an area of about 50 square meters in the northeast corner of 18C_{1,3} (50% scanned). In all areas surveyed, the inspectors did not identify elevated levels of direct gamma radiation in excess of background.

¹A list of acronyms used in the report is included at the end of the Report Details.

The following nine licensee final status survey records were reviewed, which included the Survey Area Requirements, Data Quality Objects, and the Final Status Survey (FSS) Design:

- Class 2 FSS Release Record, North21C_{1,2}, Northeast Transport Route
- Class 1 FSS Release Record, 20C_{1,1}, East Radwaste Staging Area
- Class 1 FSS Release Record, North11C_{1,1}, North Radwaste Staging Area
- Class 1 FSS Release Record, South11C_{1,1}, South Radwaste Staging Area
- Class 2 FSS Release Record, North19C_{1,2}, Northwest Transport Route
- Class 2 FSS Release Record, South21C_{1,2}, Southeast Transport Route
- Class 2 FSS Release Record, South19C_{1,2}, Southwest Transport Route
- Class 2 FSS Release Record, West22C_{1,2}, West Powerline Corridor
- Class 2 FSS Release Record, 15(1)C_{1,2}, Eastern Section Woods Road Area

The Survey Area Requirements, Data Quality Objects, and the Final Status Survey (FSS) Designs were adequate. For the above South Radwaste Staging Area (South11C_{1,1}), and Southwest Transport Route (South19C_{1,2}), the licensee's survey scan results and the analytical results of soil samples were also reviewed. The final status survey soil sample results reviewed showed less than the derived concentration guideline levels (DCGLs) for soil of 11.93 picocuries per gram (pCi/g) for cesium-137 and 3.21 pCi/g for cobalt-60 as described in the licensee's License Termination Plan (LTP). The licensee's scan surveys indicated no elevated direct gamma radiation in excess of background

2.3 Conclusion

A review of licensee survey records and independent confirmatory surveys for residual radioactive contamination confirmed that the licensee is performing remediation and final status surveys consistent with the LTP.

3.0 **Exit Meeting Summary**

The inspectors presented preliminary inspection findings to members of the licensee management team at the conclusion of onsite inspection activities on October 18, 2006.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

Consumers Energy Company

* Kurt Haas, Site General Manager

* Ken Pallagi, Radiation Protection & Environmental Services Manager

* Persons present at the exit meetings.

INSPECTION PROCEDURES USED

IP 60855 Operation of an ISFSI

IP 83801 Inspection of Final Surveys at Permanently Shutdown Reactors

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened None

Closed None

Discussed None

PARTIAL LIST OF DOCUMENTS REVIEWED

Licensee documents reviewed and utilized during the course of this inspection are specifically identified in the "Report Details" above.

LIST OF ACRONYMS USED

ADAMS	Agencywide Documents Access and Management System
DCGL	Derived Concentration Guideline Level
DNMS	Division of Nuclear Materials Safety
FSS	Final Status Survey
ISFSI	Independent Spent Fuel Storage Installation
LTP	License Termination Plan
NRC	Nuclear Regulatory Commission
pCi/g	picocuries per gram

