

January 12, 2006

Mr. Paul A. Harden
Site Vice President
Nuclear Management Company, LLC
Palisades Nuclear Plant
27780 Blue Star Memorial Highway
Covert, MI 49043-9530

SUBJECT: PALISADES PLANT — REQUEST FOR ADDITIONAL INFORMATION
RELATED TO THE STEAM GENERATOR TUBE INSPECTIONS FOR THE
2004 OUTAGE (TAC NO. MC8606)

Dear Mr. Harden:

Nuclear Management Company's letters of October 20, 2004, and October 4, 2005, submitted steam generator tube inspection summary reports for the fall 2004 outage at Palisades Nuclear Plant. We are reviewing this information, and find that we need additional information as shown in the enclosed request for additional information (RAI). I discussed this RAI with Ms. Amy Hazelhoff of your organization on January 10, 2006, and she agreed to respond within 60 days of receipt of this RAI. Please contact me at (301) 415-1423 if you have questions.

Sincerely,

/RA/

L. Mark Padovan, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-255

Enclosure: RAI

cc w/encl: See next page

January 12, 2006

Mr. Paul A. Harden
Site Vice President
Nuclear Management Company, LLC
Palisades Nuclear Plant
27780 Blue Star Memorial Highway
Covert, MI 49043-9530

SUBJECT: PALISADES PLANT — REQUEST FOR ADDITIONAL INFORMATION
RELATED TO THE STEAM GENERATOR TUBE INSPECTIONS FOR THE
2004 OUTAGE (TAC NO. MC8606)

Dear Mr. Harden:

Nuclear Management Company's letters of October 20, 2004, and October 4, 2005, submitted steam generator tube inspection summary reports for the fall 2004 outage at Palisades Nuclear Plant. We are reviewing this information, and find that we need additional information as shown in the enclosed request for additional information (RAI). I discussed this RAI with Ms. Amy Hazelhoff of your organization on January 10, 2006, and she agreed to respond within 60 days of receipt of this RAI. Please contact me at (301) 415-1423 if you have questions.

Sincerely,

/RA/

L. Mark Padovan, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-255

Enclosure: RAI

cc w/encl: See next page

DISTRIBUTION

PUBLIC
LPLIII-1 R/F

OGC
ACRS

TKobetz
LPadovan

DORL DPR
THarris

CLipa, RGN-III
YDiaz-Castillo

ADAMS Accession Number: **ML060030416**

OFFICE	NRR/LPL3-1/PM	NRR/LPL3-1/LA	NRR/LPL3-1/(A)BC
NAME	LPadovan	THarris	TKobetz
DATE	01/11/06	01/12/06	01/12/06

OFFICIAL RECORD COPY

Palisades Plant

cc:

Robert A. Fenech, Senior Vice President
Nuclear, Fossil, and Hydro Operations
Consumers Energy Company
1945 Parnall Rd.
Jackson, MI 49201

Arunas T. Udry, Esquire
Consumers Energy Company
1 Energy Plaza
Jackson, MI 49201

Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
Suite 210
2443 Warrenville Road
Lisle, IL 60532-4351

Supervisor
Covert Township
P. O. Box 35
Covert, MI 49043

Office of the Governor
P. O. Box 30013
Lansing, MI 48909

U.S. Nuclear Regulatory Commission
Resident Inspector's Office
Palisades Plant
27782 Blue Star Memorial Highway
Covert, MI 49043

Michigan Department of Environmental Quality
Waste and Hazardous Materials Division
Hazardous Waste and Radiological
Protection Section
Nuclear Facilities Unit
Constitution Hall, Lower-Level North
525 West Allegan Street
P.O. Box 30241
Lansing, MI 48909-7741

Michigan Department of Attorney General
Special Litigation Division
525 West Ottawa St.
Sixth Floor, G. Mennen Williams Building
Lansing, MI 48913

Michael B. Sellman
President and Chief Executive Officer
Nuclear Management Company, LLC
700 First Street
Hudson, MI 54016

Jonathan Rogoff, Esquire
Vice President, Counsel & Secretary
Nuclear Management Company, LLC
700 First Street
Hudson, WI 54016

Douglas E. Cooper
Senior Vice President - Group Operations
Palisades Nuclear Plant
Nuclear Management Company, LLC
27780 Blue Star Memorial Highway
Covert, MI 49043

Stephen T. Wawro, Director
of Nuclear Assets
Consumers Energy Company
Palisades Nuclear Plant
27780 Blue Star Memorial Highway
Covert, MI 49043

Laurie A. Lahti, Manager
Regulatory Affairs
Nuclear Management Company, LLC
Palisades Nuclear Plant
27780 Blue Star Memorial Highway
Covert, MI 49043

November 2005

REQUEST FOR ADDITIONAL INFORMATION
RELATED TO THE STEAM GENERATOR (SG) TUBE
INSPECTION REPORT FOR THE 2004 OUTAGE
PALISADES NUCLEAR PLANT
DOCKET NO. 50-255

1. In a conference call with the Nuclear Regulatory Commission staff on August 31, 2004, Nuclear Management Company (NMC) indicated that rotating-probe inspections were to be performed on the square bend region of tubes surrounding tube R99C140 in E-50B. Please discuss the results of these inspections.
2. Table 1 of NMC's October 4, 2005, report indicates that various signals were reported as distorted support indications, non-quantifiable indications and "DNI." Your submittal did not define the acronym "DNI." Please define this, and clarify what indications are classified as DNI.
3. Table 1 on Page 3 of NMC's October 4, 2005, report, has a row titled "Supplemental" with a footnote 2. The footnote clarifies that "All DNI, DSI [distorted support indication], NQI [non-quantifiable indication], PLP [possible loose part] . . . , PVN [permeability variation] and new wear indications" were inspected. Apparently, NMC first inspected with a bobbing coil, found indications attributed to PLPs, and then supplemented its inspection of PLPs with a rotating coil. Please discuss whether a foreign object search and retrieval was performed on each SG, and whether the loose parts were removed. If the parts were not removed, or the locations were not visually inspected, please discuss the results of any evaluations performed to ensure these parts (or suspected parts) would not result in a loss-of-tube-integrity for the period between inspections.
4. For the single axial indications, please supply the following information:
 - a. Discuss the location of the flaw relative to the support structure (i.e., at support, or in free span).
 - b. Discuss whether there were any dents/dings at these locations. If so, provide the dent/ding voltage.
 - c. Discuss the severity of the flaws, and whether they initiated from the inside or outside diameter.
 - d. Discuss whether these indications were found with a bobbin or a +Point™ coil.
5. A number of indications were reported in SGs A and B. Please summarize the mechanisms

ENCLOSURE

responsible for these indications (e.g., wear at vertical straps, wear at tube eggcrate supports, etc.). Please provide your eggcrate support thickness (i.e., axial extent), and discuss how your eddy-current measurements are referenced. For example, does "2H + 0.85" indicate that the indication is 0.85-inch from the middle of the second hot-leg support? In addition, please discuss whether any of the indications near the eggcrate supports are in the free span.

6. Please discuss the case of the single volumetric indications identified in R21C62 and R27C120 in SG E-50A. In addition, please discuss the severity of these indications.
7. Please confirm that all inspected tubes had adequate tube integrity at the time of NMC's last inspection.