

December 12, 2003

Mr. John L. Skolds, President
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: EVALUATION OF STEAM GENERATOR INSERVICE INSPECTION SUMMARY
REPORT, BYRON, UNIT 1 (TAC NO. MC0962)

By letters dated March 28 and June 13, 2002, Exelon Generation Company, LLC (Exelon) submitted a steam generator (SG) tube repair report and inservice inspection summary report respectively. These reports are related to the steam generator inspections performed during the Cycle 11 refueling outage (spring 2002) in accordance with the plant's technical specifications (TS).

Byron Station Unit 1 has four Babcock & Wilcox replacement SGs which were installed during Cycle 8, each one containing 6633 thermally treated Inconel-690 U-bend tubes. The tubes are hydraulically expanded into the tubesheet and supported with stainless steel lattice grid structures and fan bars. During the Cycle 11 refueling outage, the licensee inspected the full length of 54 percent of the inservice tubes in all four SGs with a bobbin coil probe. This inspection consisted of 100 percent of the peripheral tubes with the exception of the tubes under the manipulator base plate, and 50 percent of the interior tubes. In addition, using a three-coil rotating probe, 25 percent of the tubes in each SG were inspected at the hot leg top of the tubesheet expansion transition region. Exelon also performed diagnostic examinations using a three-coil rotating probe of all bobbin signals. Lastly, a visual inspection was performed of all previously installed tube plugs.

As a result of the inspection, no tubes were plugged or repaired. Twelve tubes were determined to contain fan bar wear. These indications are summarized as; five in SG A, six in SG B, one in SG C, and none in SG D. The through wall depths ranged from 2 percent to 8 percent, which was less than the 40 percent through wall technical specification repair limit.

Based on the review of the information provided in the two submittals, the NRC staff concluded that Exelon provided the information required in accordance with the Byron TS and no additional follow-up is required at this time.

Sincerely,

/RA/

George F. Dick, Jr., Project Manager, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No.: STN 50-454

cc: See next page

Byron Station Units 1 and 2

cc:

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

Illinois Emergency Management
Agency
Division of Disaster Assistance &
Preparedness
110 East Adams Street
Springfield, IL 62701-1109

Document Control Desk - Licensing
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Ms. C. Sue Hauser, Project Manager
Westinghouse Electric Corporation
Energy Systems Business Unit
Post Office Box 355
Pittsburgh, PA 15230

Joseph Gallo
Gallo & Ross
1025 Connecticut Ave., NW, Suite 1014
Washington, DC 20036

Howard A. Learner
Environmental Law and Policy
Center of the Midwest
35 East Wacker Drive
Suite 1300
Chicago, IL 60601-2110

U.S. Nuclear Regulatory Commission
Byron Resident Inspectors Office
4448 North German Church Road
Byron, IL 61010-9750

Ms. Lorraine Creek
RR 1, Box 182
Manteno, IL 60950

Chairman, Ogle County Board
Post Office Box 357
Oregon, IL 61061

Mrs. Phillip B. Johnson
1907 Stratford Lane
Rockford, IL 61107

Attorney General
500 S. Second Street
Springfield, IL 62701

Byron Station Plant Manager
Exelon Generation Company, LLC
4450 N. German Church Road
Byron, IL 61010-9794

Site Vice President - Byron
Exelon Generation Company, LLC
4450 N. German Church Road
Byron, IL 61010-9794

Senior Vice President - Nuclear Services
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Vice President - Operations Support
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Chief Operating Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Chairman
Will County Board of Supervisors
Will County Board Courthouse
Joliet, Illinois 60434

Director Licensing
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Regulatory Assurance Manager - Byron
Exelon Generation Company, LLC
4450 N. German Church Road
Byron, IL 61010-9794

Senior Counsel, Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Vice President
Licensing and Regulatory Affairs
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Manager Licensing - Braidwood and Byron
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

December 12, 2003

Mr. John L. Skolds, President
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: EVALUATION OF STEAM GENERATOR INSERVICE INSPECTION SUMMARY REPORT, BYRON, UNIT 1 (TAC NO. MC0962)

By letters dated March 28 and June 13, 2002, Exelon Generation Company, LLC (Exelon) submitted a steam generator (SG) tube repair report and inservice inspection summary report respectively. These reports are related to the steam generator inspections performed during the Cycle 11 refueling outage (spring 2002) in accordance with the plant's technical specifications (TS).

Byron Station Unit 1 has four Babcock & Wilcox replacement SGs which were installed during Cycle 8, each one containing 6633 thermally treated Inconel-690 U-bend tubes. The tubes are hydraulically expanded into the tubesheet and supported with stainless steel lattice grid structures and fan bars. During the Cycle 11 refueling outage, the licensee inspected the full length of 54 percent of the inservice tubes in all four SGs with a bobbin coil probe. This inspection consisted of 100 percent of the peripheral tubes with the exception of the tubes under the manipulator base plate, and 50 percent of the interior tubes. In addition, using a three-coil rotating probe, 25 percent of the tubes in each SG were inspected at the hot leg top of the tubesheet expansion transition region. Exelon also performed diagnostic examinations using a three-coil rotating probe of all bobbin signals. Lastly, a visual inspection was performed of all previously installed tube plugs.

As a result of the inspection, no tubes were plugged or repaired. Twelve tubes were determined to contain fan bar wear. These indications are summarized as; five in SG A, six in SG B, one in SG C, and none in SG D. The through wall depths ranged from 2 percent to 8 percent, which was less than the 40 percent through wall technical specification repair limit.

Based on the review of the information provided in the two submittals, the NRC staff concluded that Exelon provided the information required in accordance with the Byron TS and no additional follow-up is required at this time.

Sincerely,
/RA/

George F. Dick, Jr., Project Manager, Section 2
Project Directorate III
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No.: STN 50-454

cc: See next page

DISTRIBUTION:

Public
PDIII-2 r/f PCoates LLund YDiaz-Sanabria
AMendiola MChawla GGrant, RIII OGC
GDick ACRS

ADAMS ACCESSION NUMBER: ML033420151

*per memo dated

OFFICE	PM:PD3-2	LA:PD3-2	SC:DE:EMCB*	SC:PD3-2
NAME	GDick	PCoates	ALLund	DPickett for, AMendiola
DATE	12/11/03	12/11/03	11/6/03	12/11/03

OFFICIAL RECORD COPY