

September 22, 2003

Mr. Fidel Marquez  
Vice President, Exelon Energy Delivery  
Transmission and Substations  
2 Lincoln Centre  
Oakbrook Terrace, IL 60181

SUBJECT: INFORMATION REGARDING THE NORTH NELSON LINE PERTAINING TO  
QUAD CITIES NUCLEAR POWER STATION LICENSE RENEWAL

Dear Mr. Marquez:

The purpose of this letter is to provide information regarding a transmission line owned, operated and maintained by Exelon Energy Delivery which came to the attention of the U.S. Nuclear Regulatory Commission (NRC) staff during an environmental review related to an application by Exelon Generation Company, LLC (Exelon) for renewal of the operating licenses for Quad Cities Nuclear Power Station, Units 1 and 2 (QC).

An Environmental Report (ER) was included with Exelon's license renewal application. The ER stated in Section 4.13, Electromagnetic Fields - Acute Effects, that EGC calculated induced currents using the AC/DCLINE computer code produced by the Electric Power Research Institute, and the results of the calculations have been verified through field measurements by several utilities. The input parameters included the National Electric Safety Code (NESC) requirements that line sag be determined at 120 degrees Fahrenheit conductor temperature, and the maximum vehicle size under the lines as a tractor trailer truck.

The NESC specifies a maximum field strength of 5 milliamps. However, Exelon's ER stated that one of the lines reviewed (the North Nelson Line - 0404) had a limiting case induced current of 6.0 milliamps. The NRC staff has determined that the environmental impact of license renewal is SMALL for lines which comply with NESC specifications. The NRC staff has further determined that for the North Nelson Line, the environmental impact of the proposed license renewal is MODERATE, based on the amount by which this line exceeds the NESC Code specification. This determination will be included in a draft environmental impact statement scheduled for publication in November 2003.

If there are any questions regarding this correspondence, please contact me at (301) 415-1444.

Sincerely,  
**/RA/**

Louis L. Wheeler, Senior Project Manager  
Environmental Section  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket Nos. 50-254 and 50-265

cc: See next page

September 22, 2003

Mr. Fidel Marquez  
Vice President, Exelon Energy Delivery  
Transmission and Substations  
2 Lincoln Centre  
Oakbrook Terrace, IL 60181

SUBJECT: INFORMATION REGARDING THE NORTH NELSON LINE PERTAINING TO  
QUAD CITIES NUCLEAR POWER STATION LICENSE RENEWAL

Dear Mr. Marquez:

The purpose of this letter is to provide information regarding a transmission line owned, operated and maintained by Exelon Energy Delivery which came to the attention of the U.S. Nuclear Regulatory Commission (NRC) staff during an environmental review related to an application by Exelon Generation Company, LLC (Exelon) for renewal of the operating licenses for Quad Cities Nuclear Power Station, Units 1 and 2 (QC).

An Environmental Report (ER) was included with Exelon's license renewal application. The ER stated in Section 4.13, Electromagnetic Fields - Acute Effects, that EGC calculated induced currents using the AC/DCLINE computer code produced by the Electric Power Research Institute, and the results of the calculations have been verified through field measurements by several utilities. The input parameters included the National Electric Safety Code (NESC) requirements that line sag be determined at 120 degrees Fahrenheit conductor temperature, and the maximum vehicle size under the lines as a tractor trailer truck.

The NESC specifies a maximum field strength of 5 milliamps. However, Exelon's ER stated that one of the lines reviewed (the North Nelson Line - 0404) had a limiting case induced current of 6.0 milliamps. The NRC staff has determined that the environmental impact of license renewal is SMALL for lines which comply with NESC specifications. The NRC staff has further determined that for the North Nelson Line, the environmental impact of the proposed license renewal is MODERATE, based on the amount by which this line exceeds the NESC Code specification. This determination will be included in a draft environmental impact statement scheduled for publication in November 2003.

If there are any questions regarding this correspondence, please contact me at (301) 415-1444.

Sincerely,

**/RAI**

Louis L. Wheeler, Senior Project Manager  
Environmental Section  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket Nos. 50-254 and 50-265

cc: See next page

Accession no.: **ML032660226**

DISTRIBUTION: See Next Page

C:\ORPCheckout\FileNET\ML032660226.wpd

OFFICE	LA:RLEP	GS:RLEP	PM:RLEP	SC:RLEP
NAME	YEdmonds	JDavis	DWheeler	JTappert
DATE	09/22/03	09/22/03	09/22/03	09/22/03

OFFICIAL RECORD COPY

SUBJECT: INFORMATION REGARDING THE NORTH NELSON LINE PERTAINING TO  
QUAD CITIES NUCLEAR POWER STATION LICENSE RENEWAL, DATED:  
September 22, 2003  
**ML032660226**

DISTRIBUTION:

PUBLIC

DMatthews/FGillespie

DWheeler

REmch

TKim

JDavis

JTappert

PTKuo

FLyon

OGC

KStoedter, RIII

JStrasma, RIII

MFarber, RIII

MRing, RIII

RLerch, RIII

BMcDowell (LLNL)

RLEP R/F

Quad Cities Nuclear Power Station Units 1 and 2

cc:

Site Vice President - Quad Cities Nuclear Power Station  
Exelon Generation Company, LLC  
22710 206th Avenue N.  
Cordova, IL 61242-9740

Quad Cities Nuclear Power Station Plant Manager  
Exelon Generation Company, LLC  
22710 206th Avenue N.  
Cordova, IL 61242-9740

Regulatory Assurance Manager - Quad Cities  
Exelon Generation Company, LLC  
22710 206th Avenue N.  
Cordova, IL 61242-9740

Quad Cities Resident Inspectors Office  
U.S. Nuclear Regulatory Commission  
22712 206th Avenue N.  
Cordova, IL 61242

William D. Leech  
Manager - Nuclear  
MidAmerican Energy Company  
P.O. Box 657  
Des Moines, IA 50303

Vice President - Law and Regulatory Affairs  
MidAmerican Energy Company  
One River Center Place  
106 E. Second Street  
P.O. Box 4350  
Davenport, IA 52808

Chairman  
Rock Island County Board of Supervisors  
1504 3rd Avenue  
Rock Island County Office Bldg.  
Rock Island, IL 61201

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

Illinois Department of Nuclear Safety  
Office of Nuclear Facility Safety  
1035 Outer Park Drive  
Springfield, IL 62704

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

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

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

Senior Vice President  
Mid-West Regional Operating Group  
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

Director - Licensing  
Mid-West Regional Operating Group  
Exelon Generation Company, LLC  
4300 Winfield Road  
Warrenville, IL 60555

Senior Counsel, Nuclear  
Mid-West Regional Operating Group  
Exelon Generation Company, LLC  
4300 Winfield Road  
Warrenville, IL 60555

Manager Licensing - Dresden and Quad Cities  
Exelon Generation Company, LLC  
4300 Winfield Road  
Warrenville, IL 60555

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

Ms. Lisa Ford  
Director  
River Valley Library  
214 South Main Street  
Port Byron, IL 61275

Ms. Cathy Stone  
Reference Manager  
Davenport Public Library  
321 Main Street  
Davenport, IA 52801-1490

Ms. Sue Hebel, Director  
Cordova District Library  
402 Main Avenue  
Post Office Box 247  
Cordova, IL 61242-0247

William D. Maher  
License Renewal Environmental Lead  
Exelon Nuclear  
200 Exelon Way  
Kennett Square, PA 19348

Frederick W. Polaski  
License Renewal Manager  
Exelon Nuclear  
200 Exelon Way  
Kennett Square, PA 19348

Albert A. Fulvio  
Exelon Nuclear  
200 Exelon Way  
Kennett Square, PA 19348