

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

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cc: See next page

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QUAD CITIES NUCLEAR POWER STATION LICENSE RENEWAL, DATED:  
September 22, 2003  
**ML032660226**

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