

10 CFR 50.54(p)(2)  
10 CFR 50.4(b)(4)

RS-10-163

September 30, 2010

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Byron Station, Units 1 and 2  
Facility Operating License Nos. NPF-37 and NPF-66  
NRC Docket Nos. STN 50-454, STN 50-455 and 72-68

Subject: Byron Station Security Plan, Training and Qualification Plan, and  
Safeguards Contingency Plan, Revision 10

In accordance with 10 CFR 50.54, "Conditions of licenses," paragraph (p)(2), Exelon Generation Company, LLC (EGC) is submitting Revision 10 to the Byron Station Security Plan. Changes to this document were implemented on August 6, 2010. In accordance with 10 CFR 50.54(p)(2), EGC is submitting these changes within 60 days of implementation (i.e., no later than October 5, 2010).

The Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan has been revised to:

1. Implement additional areas associated with the Essential Service Water (SX) cooling towers.
2. Implement the Owner Controlled Area (OCA) thermal camera system.
3. Implement specific information in regards to the Early Warning System (EWS).

EGC has concluded that the changes do not decrease the safeguards effectiveness of the Byron Station Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan.

Attachments 1 and 2 contain Safeguards Information. Therefore, EGC requests that this information be withheld from public disclosure in accordance with 10 CFR 2.390, "Public inspections, exemptions, requests for withholding," paragraph (d)(1), and 10 CFR 73.22, "Protection of Safeguards Information: Specific Requirements," paragraph (a)(1)(i).

**ATTACHMENTS 1 AND 2 CONTAIN SAFEGUARDS INFORMATION**  
**UPON SEPARATION THIS PAGE IS DECONTROLLED**

NM5501  
5001  
NRR

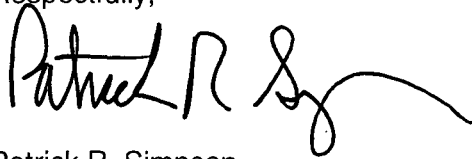
## ~~SAFEGUARDS INFORMATION~~

September 30, 2010  
U. S. Nuclear Regulatory Commission  
Page 2

There are no commitments in this letter.

Should you have any questions concerning this letter, please contact Mr. Gerald T. Armstrong III at (630) 657-2915.

Respectfully,



Patrick R. Simpson  
Manager – Licensing

Attachments:

1. Byron Station, Description of Changes  
**(Contains Safeguards Information)**
2. Byron Station Security Plan, Training and Qualification Plan, and  
Safeguards Contingency Plan, Revision 10  
**(Contains Safeguards Information)**

cc: Regional Administrator – NRC Region III

**ATTACHMENTS 1 AND 2 CONTAIN SAFEGUARDS INFORMATION**  
**UPON SEPARATION THIS PAGE IS DECONTROLLED**