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Secretary, U.S. Nuclear Regulatory Commission,
Washington, DC 20555-0001,

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74FR 38239

ATTN: Rulemakings and Adjudications Staff

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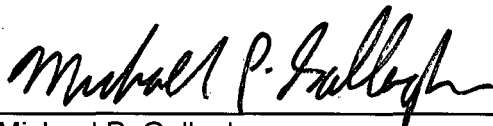
Subject: Comments on Draft NUREG-1437, Revision 1

Reference: "Notice of Availability of Revision to Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Revision 1, NUREG-1437 and Public Meetings," 74 *Federal Register* 38239 – 38240 (July 31, 2009); Docket No. NRC—2008—0608.

In response to the reference notice in the *Federal Register*, Exelon Generation Company, LLC is submitting as an attachment to this letter, written comments on Draft *Generic Environmental Impact Statement for License Renewal of Nuclear Plants (GEIS)*, NUREG-1437, Revision 1.

If you have any questions, please contact Albert Fulvio, Manager, License Renewal, at 610-765-5936.

Respectfully,



Michael P. Gallagher
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Exelon Generation Company, LLC

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Exelon Generation Company, LLC

Comments on U.S. Nuclear Regulatory Commission Draft Report Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Volumes 1 and 2 (NUREG-1437, Revision 1) (74 FR 38239 – 38240)

INTRODUCTION

Exelon Generation Company, LLC (“Exelon”) has reviewed the U.S. Nuclear Regulatory Commission (“NRC”) Draft Generic Environmental Impact Statement for License Renewal of Nuclear Plants (“GEIS”) (NUREG-1437, Rev. 1) [Docket ID NRC-2008-0608]. Exelon’s comments on the Draft GEIS are presented below.

GENERAL COMMENT

The Nuclear Energy Institute (“NEI”), which is the policy organization of the nuclear energy and technologies industry, has submitted detailed comments on the Draft GEIS. As a member of NEI, Exelon endorses those comments.

SPECIFIC COMMENTS

In several locations throughout the Draft GEIS, the NRC presents data and information about nuclear power plants that are owned and operated by Exelon. The following comments address those specific discussions of Exelon plants.

1. **Vol. 1, Page 3-8, Table 3.1-1:** Based on the renewed license for the Oyster Creek Nuclear Generating Station, change the entry in the Table 3.1-1 column labeled “Year License Expires” from “2009” to “2029” (ML090980482).
2. **Vol. 1, Page 3-8, Table 3.1-1:** In the Table 3.1-1 column labeled “Nearest City,” the entry for Oyster Creek Nuclear Generating Station should be changed from “Atlantic City, PA” to “Atlantic City, NJ.”
3. **Vol. 1, Page 3-63, lines 23 to 34:** Text in lines 23 to 34 on page 3-63 reads as follows:
Species composition and ecological conditions within riverine environments are largely determined by the geographic area, gradient of the river bed, velocity of the current, and source of nutrients and organic matter at the base of the food chain. Thus, ecological communities in rivers become altered if the river is impounded, with the degree of alteration depending on the degree to which various physical and chemical conditions are affected. Environmental threats to rivers include depletion of water, dams that alter flow and temperature characteristics and can block the upstream or downstream movement of aquatic organisms, chemical pollution, and the introduction of nonnative species. For example, the USFWS was concerned that a pond created by damming Oyster Creek to supply a source of water for fighting fires at the Oyster Creek plant in New Jersey could impede the

movement of migratory species, such as the American shad (*Alosa Sapidissima*) or American eel (*Anguilla rostrata*) (NRC 2007c).

Respectfully, Exelon submits that the statements made by the USFWS during public scoping for the environmental review of license renewal for the Oyster Creek plant were speculative, as demonstrated by the NRC's review of the concern in the final NUREG-1437, Supplement 28 (Sec. 4.7, page 4-51). Accordingly, Exelon urges the NRC to delete the last sentence in the paragraph in lines 23 to 34 on page 3-63 of the draft updated GEIS because, although a concern was raised, the Oyster Creek fire pond dam is not an instructive example of the environmental threats being described.

4. **Vol. 1, Page 3-105, Table 3.9-7, Row labeled "LaSalle 1, 2":**
 - a. **Column labeled "Annual Occupational Dose (rem) Maximum" reports a value of "0.16."**
 - b. **Column labeled "Annual Occupational Dose (rem) Minimum" reports a value of "0.11."**
 - a. Based on annual reports submitted to the NRC by the LaSalle plant, the "Annual Occupational Dose (rem) Maximum" should be changed in Table 3.9-7 from "0.16" to "0.50."
 - b. Based on annual reports submitted to the NRC by the LaSalle plant, the "Annual Occupational Dose (rem) Minimum" should be changed in Table 3.9-7 from "0.11" to "0.15."
5. **Vol. 1, Page 3-108, Table 3.9-8, Row labeled "Three Mile Island 1":** **Column labeled "Annual Collective Dose (person-rem/reactor)" for the year 2004 reports a value of "0."**
Based on the 10 CFR 20.2206(b) Three Mile Island Personnel Radiation Exposure Report for 2004, submitted to NRC on March 17, 2005, the "Annual Collective Dose (person-rem/reactor)" for the year 2004 should be changed from "0" to "3."
6. **Vol. 1, Page 3-109, Table 3.9-8, Row labeled "Oyster Creek":** **Column labeled "Annual Collective Dose (person-rem/reactor)" for the year 2000 reports a value of "614."**
Based on radiation protection records for the Oyster Creek plant, the "Annual Collective Dose (person-rem/reactor)" for the year 2000 should be changed from "614" to "625."
7. **Vol. 1, Page 3-111, Table 3.9-9, Row labeled "Three Mile Island 1":** **Column labeled "Annual Measurable Occupational Dose (rem)" for the year 2004 reports a value of "0.00."**
Based on the 10 CFR 20.2206(b) Three Mile Island Personnel Radiation Exposure Report for 2004, submitted to NRC on March 17, 2005, the "Annual Measurable Occupational Dose (rem)" for the year 2004 should be changed from "0.00" to "3.4."
8. **Vol. 1, Page 3-112, Table 3.9-9, Row labeled "LaSalle":** **Column labeled "Annual Measurable Occupational Dose (rem)" for the year 1996 reports a value of "0.29."**
Based on annual reports submitted to the NRC by the LaSalle plant, the "Annual Measurable Occupational Dose (rem)" for the year 1996 should be changed from "0.29" to "0.31."
9. **Vol. 1, Page 3-137, lines 33 to 35:** **Text in lines 33 to 35 on page 3-137 reads as follows:**
For some plants, such as Hatch, Quad Cities, Peach Bottom, and Monticello, NPDES permits set limits on the maximum daily temperature for the discharge.
The current NPDES permit (issued December 1, 2000) for the Peach Bottom Atomic Power Station does not contain a maximum daily discharge temperature limit. Rather, the permit requires that the discharge water temperature be monitored and reported. Accordingly, the

following modification is suggested to the text in lines 33 to 35 on page 3-137 (~~strike through~~ font = deletion; *italics* font = addition):

For some plants, such as Hatch, Quad Cities, ~~Peach Bottom~~, and Monticello, NPDES permits set limits on the maximum daily temperature for the discharge.

10. **Vol. 1, Page 4-90, lines 35 to 37:** Text in lines 35 to 37 on page 4-90 reads as follows:

The heated discharges from the Oyster Creek plant in New Jersey increased the distribution and abundance of a nonnative, tropical-subtropical, wood-boring shipworm species (*Teredo bartschi*).

Because all causes of the increase in shipworm distribution and abundance in Barnegat Bay were not definitively identified, the following modification is suggested to the text in lines 35 to 37 on page 4-90 (~~strike through~~ font = deletion; *italics* font = addition):

The heated discharges from the Oyster Creek plant in New Jersey *contributed to an increase in* ~~increased~~ the distribution and abundance of a nonnative, tropical-subtropical, wood-boring shipworm species (*Teredo bartschi*).

11. **Vol. 1, Page 4-101, lines 28 to 30:** Text in lines 28 to 30 on page 4-101 reads as follows:

The intake and discharge canals at the Oyster Creek Nuclear Generating Station in New Jersey have been dredged approximately every 3 to 10 years (NRC 2007b), ...

Based on the dredging frequencies reported for Oyster Creek Generating Station in the NRC's site-specific environmental impact statement for Oyster Creek license renewal (NUREG-1437, Supplement 28 [January 2007], page 2-18), and the fact that in the years when dredging occurred only part of either the intake canal or the discharge canal, but not both, was dredged, the following modification is suggested to the text in lines 28 to 30 on page 4-101 (~~strike through~~ font = deletion; *italics* font = addition):

Portions of either the ~~The~~ intake canal ~~and~~ or the discharge canals at the Oyster Creek Nuclear Generating Station in New Jersey have been dredged approximately every ~~3 to~~ 10 years (NRC 2007b), ...

12. **Vol. 1, Page 4-221, lines 24 to 27:** Text in lines 24 to 27 on page 4-221 reads as follows:

Several recent environmental analyses for license renewal applications have found that overall cumulative impacts in the region of influence of the power plant were significant (e.g., the Oyster Creek plant in New Jersey and the Susquehanna plant in Pennsylvania).

Exelon questions the NRC's characterization of the overall cumulative impacts for the Oyster Creek Nuclear Generating Station as "significant," which is undefined terminology. In Section 4.8.6 of the *Generic Environmental Impact Statement for License Renewal of Nuclear Power Plants Supplement 28: Regarding Oyster Creek Nuclear Generating Station* (NRC 2007b), the NRC concludes that overall cumulative impacts ranged from SMALL to MODERATE for the Oyster Creek Nuclear Generating Station. Accordingly, Exelon suggests that it would be clearer and more consistent with NRC's approach to impact characterization in NEPA documents if the above-quoted sentence in lines 24 to 27 on page 4-221 in the draft updated GEIS were changed to read as follows (~~strike through~~ font = deletion; *italics* font = addition):

Several recent environmental analyses for license renewal application found that overall cumulative impacts in the region of influence of the power plant ~~were significant~~ *changed from SMALL to MODERATE* (e.g., the Oyster Creek plant in New Jersey and the Susquehanna plant in Pennsylvania).

13. **Vol. 2, Page C-6, line 6:** Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "Commonwealth Edison Company" to "Exelon Generation Company".
14. **Vol. 2, Page C-12, line 6:** Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "Exelon Corporation" to "Exelon Generation Company".
15. **Vol. 2, Page C-20, line 6:** : Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "AmerGen Energy Co." to "Exelon Generation Company".
16. **Vol. 2, Page C-60, line 6:** Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "Exelon Corporation" to "Exelon Generation Company".
17. **Vol. 2, Page C-62, line 6:** Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "Exelon Corporation" to "Exelon Generation Company".
18. **Vol. 2, Page C-76, line 6:** Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "AmerGen Energy, LLC" to "Exelon Generation Company".
19. **Vol. 2, Page C-76, line 14:** Based on the renewed license for the Oyster Creek Nuclear Generating Station, change the entry in the row labeled "License Expiration" from "2009" to "2029".
20. **Vol. 2, Page C-82, line 6:** Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "Exelon Co." to "Exelon Generation Company".
21. **Vol. 2, Page C-116, line 6:** Based on the NRC List of Power Reactor Units [<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>], change the entry in the row labeled "Licensee" from "Exelon Corporation" to "Exelon Generation Company".