

BIBLIOGRAPHIC DATA SHEET

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Early Site Permit (ESP) at the
Exelon Generation Company, LLC (EGC) ESP Site

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Washington, D.C. 20555-0001

10. SUPPLEMENTARY NOTES

Project No. 718, Docket No. 52-007

11. ABSTRACT (200 words or less)

This safety evaluation report (SER) documents the U.S. Nuclear Regulatory Commission (NRC) staff's technical review of the site safety analysis report (SSAR) and emergency planning information in the early site permit (ESP) application submitted by Exelon Generation Company, LLC (EGC or the applicant), for the EGC ESP site. By letter dated September 25, 2003, Exelon submitted the ESP application for the EGC ESP site in accordance with Subpart A, "Early Site Permits," of Title 10 of the Code of Federal Regulations (10CFR) Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants." The EGC ESP site is located approximately 6 miles east of the city of Clinton in central Illinois, and is adjacent to an existing nuclear power reactor operated by AmerGen, which is a subsidiary of Exelon Generation Company. In its application, EGC seeks an ESP that could support a future application to construct and operate additional nuclear power reactors at the ESP site with a total nuclear generating capacity of up to 6800 megawatts (thermal).

This SER presents the results of the staff's review of information submitted in conjunction with the ESP application. The staff has identified, in Appendix A to this SER, certain site-related items that will need to be addressed at the combined license or construction permit stage, if an applicant desires to construct one or more new nuclear reactors on the EGC ESP site. The staff determined that these items do not affect the staff's regulatory findings at the ESP stage and are, for reasons specified in Section 1.7, more appropriately addressed at later stages in the licensing process. Appendix A to this SER also identifies the permit conditions that the staff recommends the Commission impose, if an ESP is issued to the applicant.

12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)

Early Site Permit (ESP)
Final Safety Evaluation Report
Combined License (COL)
Permit Conditions
COL Action Items
Site Characteristics
Bounding Parameters
Exelon Generation Company, LLC (EGC) ESP Site

13. AVAILABILITY STATEMENT

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