



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 13, 2021

LICENSEE: Exelon Generation Company, LLC

FACILITY: Limerick Generating Station, Units 1 and 2

SUBJECT: SUMMARY OF MARCH 16, 2021, PUBLIC MEETING WITH EXELON GENERATION COMPANY, LLC REGARDING PLANNED DIGITAL MODERNIZATION LICENSE AMENDMENT REQUEST FOR LIMERICK GENERATING STATION, UNITS 1 AND 2 (EPID L-2020-LRM-0041)

On June 12, 2020, a public meeting via webinar was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Exelon Generation Company, LLC (Exelon, the licensee). The purpose of the meeting was to discuss Exelon's plan to submit a license amendment request (LAR) involving the modernization of instrumentation and control (I&C) systems at Limerick Generating Station (Limerick), Units 1 and 2. The meeting notice and agenda, dated February 25, 2021, are available in the Agencywide Documents Access and Management System (ADAMS) at Accession No. ML21071A056. The meeting was partially closed, because some of the information discussed during the meeting was proprietary in nature. The non-proprietary presentation used during the meeting is available in ADAMS at Accession No. ML21063A119. The proprietary presentation used during the meeting is available in ADAMS at Accession No. ML21120A082 (non-public). A list of attendees is enclosed.

The licensee provided an overview of the planned I&C modernization project at Limerick and an overview of the planned license amendment request. The planned project would upgrade analog I&C systems and integrate the safety related reactor protection system, nuclear steam supply shutoff system, and emergency core cooling system into a single system that will be known as plant protection system. Additionally, redundant reactivity control system would be upgraded. As part of the upgrade data display system would be installed and some technical specification surveillance would be replaced. The licensee plans to include the following in its license amendment request:

- Required information listed in Enclosure B, "Information Provided in Support of a License Amendment Request for a Digital Instrumentation and Control Modification," of DI&C-ISG-06, "Licensing Process" (December 2018).
- Licensing technical report
- Description of technical specification changes
- Description of system requirements specification
- Description of system design specification
- Summary of equipment qualifications
- Summary of human factors
- Summary of vendor oversight program
- Summary of defense in depth and diversity analysis

- Conceptual mark-ups of final safety analysis report
- Regulatory commitments

In the closed portion of the meeting, the licensee discussed the design principles for the planned project and its planned approach to defense-in-depth and diversity.

The NRC staff asked the licensee about what portion of the modernization effort would be completed under Section 50.59 of Title 10 of the *Code of Federal Regulations*. The licensee stated it would provide that information at a later date. In response to a question from the NRC staff, the Exelon representative stated that implementation phase of the project will take place between design and test phases. The NRC staff asked the licensee to discuss alignment of vendor oversight with the site's quality assurance processes and procedures and change controls governing the vendor oversight program.

Another pre-submittal meeting will be held in either June or July 2021.

No regulatory decisions were made during the meeting. Members of the public were in attendance. No comments or questions from the public were received during the meeting. No public meeting feedback forms were received.

Please direct any inquiries to me at 301-415-2871 or [Michael.Marshall@nrc.gov](mailto:Michael.Marshall@nrc.gov).

*/RA/*

Michael L. Marshall, Jr., Senior Project Manager  
Plant Licensing Branch I  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-352 and 50-353

Enclosure:  
List of Attendees

cc: Listserv

LIST OF ATTENDEES

MARCH 16, 2021, PUBLIC MEETING WITH EXELON GENERATION COMPANY, LLC

LIMERICK GENERATING STATION, UNITS 1 AND 2

PROPOSED LICENSE AMENDMENT REQUEST

INVOLVING DIGITAL MODERNIZATION

| Name                      | Organization                             |
|---------------------------|--|
| Aaron Armstrong           | U.S. Nuclear Regulatory Commission (NRC) |
| Andrea Veil               | NRC                                      |
| Craig Erlanger            | NRC                                      |
| David Rahn                | NRC                                      |
| Deanna Zhang              | NRC                                      |
| Eric Benner               | NRC                                      |
| Eva Brown                 | NRC                                      |
| Greg Galletti             | NRC                                      |
| Jack Zhao                 | NRC                                      |
| Jeanne Johnston           | NRC                                      |
| John Tappert              | NRC                                      |
| Justin Vazquez            | NRC                                      |
| Khadijah West             | NRC                                      |
| Michael Marshall          | NRC                                      |
| Michael Waters            | NRC                                      |
| Philip McKenna            | NRC                                      |
| Ramon Gascot Lozada       | NRC                                      |
| Richard Stattel           | NRC                                      |
| Robert Beaton             | NRC                                      |
| Rossnyev Alvarado         | NRC                                      |
| Samir Darbali             | NRC                                      |
| Tarico Sweat              | NRC                                      |
| Wendell Morton            | NRC                                      |
| Craig Myers               | Exelon Generation Company, LLC (Exelon)  |
| Dave Helker               | Exelon                                   |
| Dave Molteni              | Exelon                                   |
| David Peiffer             | Exelon                                   |
| Elliott Flick             | Exelon                                   |
| Frank Mascitelli          | Exelon                                   |
| George Bonanni            | Exelon                                   |
| George Budock             | Exelon                                   |
| Jason Zorn                | Exelon                                   |
| Jerry Segner              | Exelon                                   |
| John Connelly             | Exelon                                   |
| Kayla Marriner            | Exelon                                   |
| Mark Samselski            | Exelon                                   |
| Michael Foote             | Exelon                                   |
| Scott Schumacher          | Exelon                                   |
| Shannon Rafferty-Czincila | Exelon                                   |
| Steven Hesse              | Exelon                                   |

Enclosure

| Name                 | Organization    |
|----------------------|-----------------|
| Vikram Shah          | Exelon          |
| Pareez Golub         | Sargent & Lundy |
| Bill Rosco           | Rolls Royce     |
| Deann Raleigh        | Curtiss Wright  |
| Calvin Tang          | Westinghouse    |
| Christopher Crefeld  | Westinghouse    |
| James Rozum          | Westinghouse    |
| Stefan Levine        | Westinghouse    |
| Steven Merkiel       | Westinghouse    |
| Terrence Tuite       | Westinghouse    |
| Thomas Pietryka      | Westinghouse    |
| Tim Rozum            | Westinghouse    |
| Warren Odess Gillett | Westinghouse    |
| William Bennett      | Westinghouse    |
| Alison Hahn          | -----           |
| Bill Fowler          | -----           |
| Claire Ochroch       | -----           |
| David Herrell        | -----           |
| Deann Raleigh        | -----           |
| Neil Archambo        | -----           |
| Stephen Seaman       | -----           |
| Tony Mull            | -----           |

SUBJECT: SUMMARY OF MARCH 16, 2021, PUBLIC WEBINAR WITH EXELON GENERATION COMPANY, LLC REGARDING PLANNED DIGITAL MODERNIZATION LICENSE AMENDMENT REQUEST FOR LIMERICK GENERATING STATION, UNITS 1 AND 2 (EPID L-2020-LRM-0041) DATED MAY 13, 2021

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| OFFICE | NRR/DORL/LPL1/PM | NRR/DORL/LPL1/LAiT | NRR/DORL/LPL1/LA |
| NAME   | MMarshall        | KZeleznock         | JBurkhardt       |
| DATE   | 05/07/2021       | 05/04/2021         | 05/04/2021       |
| OFFICE | NRR/DORL/LPL1/BC | NRR/DORL/LPL1/PM   |                  |
| NAME   | JDanna           | MMarshall          |                  |
| DATE   | 05/13/2021       | 05/13/2021         |                  |

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