



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD, SUITE 102  
KING OF PRUSSIA, PA 19406-1415

August 31, 2023

David P. Rhoades  
Senior Vice President  
Constellation Energy Generation, LLC  
President and Chief Nuclear Officer (CNO)  
Constellation Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: UPDATED INSPECTION PLAN FOR LIMERICK GENERATING STATION,  
UNITS 1 AND 2 (REPORT 05000352/2023005 AND 05000353/2023005)

Dear David Rhoades:

The enclosed inspection plan lists the inspections scheduled through June 30, 2025, for Limerick Generating Station, Units 1 and 2. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 12 months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In addition to baseline inspections, the NRC will conduct Inspection Procedure 71003, "Post-Approval Site Inspection for License Renewal," for Unit 1 in June 2024.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of

NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (610) 337-6916 with any questions you have regarding this letter.

Sincerely,

Sarah H. Elkhiamy, Acting Chief  
Projects Branch 4  
Division of Operating Reactor Safety

Docket Nos. 50-352 and 50-353  
License Nos. NPF-39 and NPF-85

Enclosure:  
Limerick Inspection Plan

cc: Distribution via ListServ

SUBJECT: UPDATED INSPECTION PLAN FOR LIMERICK GENERATING STATION,  
UNITS 1 AND 2 (REPORT 05000352/2023005 AND 05000353/2023005)  
DATED AUGUST 31, 2023

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DOCUMENT NAME: <https://usnrc.sharepoint.com/teams/ROPAAssessmentMeetings/Shared Documents/ROP-24 Second Quarter Process/Branch 4/Lim ROP-24 Region I Inspection Plan Transmittal Letter.docx>  
ADAMS Accession No. ML23242A110

|                                                  |          |                                                                                         |  |                                                                                                           |  |
|--------------------------------------------------|----------|-----------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------|--|
| <input checked="" type="checkbox"/> SUNSI Review |          | <input checked="" type="checkbox"/> Non-Sensitive<br><input type="checkbox"/> Sensitive |  | <input checked="" type="checkbox"/> Publicly Available<br><input type="checkbox"/> Non-Publicly Available |  |
| OFFICE                                           | RI/DORS  | RI/DORS                                                                                 |  |                                                                                                           |  |
| NAME                                             | N Warnek | S Elkhiamy                                                                              |  |                                                                                                           |  |
| DATE                                             | 8/28/23  | 8/28/23                                                                                 |  |                                                                                                           |  |

OFFICIAL RECORD COPY

# Site Inspection Activity Plan

## Limerick

07/01/2023 - 06/30/2025

| Unit                                                                    | Start      | End        | Activity        | CAC    | Title                                                                       | Staff Count |
|-------------------------------------------------------------------------|------------|------------|-----------------|--------|-----------------------------------------------------------------------------|-------------|
| <b>RP - 71124.05 Instruments</b>                                        |            |            |                 |        |                                                                             | 1           |
| 1,2                                                                     | 8/14/2023  | 8/18/2023  | IP 71124.05     | 000729 | Radiation Monitoring Instrumentation                                        |             |
| <b>ISFSI Loading Campaign Inspection (60855) - LM</b>                   |            |            |                 |        |                                                                             | 1           |
| 1,2                                                                     | 8/21/2023  | 8/25/2023  | IP 60855        | 001001 | Operation Of An ISFSI                                                       |             |
| <b>EP EXERCISE INSPECTION - LIMERICK</b>                                |            |            |                 |        |                                                                             | 5           |
| 1,2                                                                     | 9/25/2023  | 9/29/2023  | IP 71114.04     | 000719 | Emergency Action Level and Emergency Plan Changes                           |             |
| 1,2                                                                     | 9/25/2023  | 9/29/2023  | IP 71114.07     | 000722 | Exercise Evaluation - Hostile Action (HA) Event                             |             |
| 1,2                                                                     | 9/25/2023  | 9/29/2023  | IP 71151        | 001397 | Performance Indicator Verification                                          |             |
| <b>Limerick Requal Inspection with P/F Results</b>                      |            |            |                 |        |                                                                             | 2           |
| 1,2                                                                     | 11/6/2023  | 11/10/2023 | IP 71111.11A    | 000703 | Licensed Operator Requalification Program and Licensed Operator Performance |             |
| 1,2                                                                     | 11/6/2023  | 11/10/2023 | IP 71111.11B    | 000704 | Licensed Operator Requalification Program and Licensed Operator Performance |             |
| <b>Focused Engineering Inspection - Aging Related</b>                   |            |            |                 |        |                                                                             | 3           |
| 1,2                                                                     | 11/13/2023 | 11/17/2023 | IP 71111.21N.04 | 001832 | Age-Related Degradation                                                     |             |
| 1,2                                                                     | 11/27/2023 | 12/1/2023  | IP 71111.21N.04 | 001832 | Age-Related Degradation                                                     |             |
| <b>2024 Limerick Initial License Exam</b>                               |            |            |                 |        |                                                                             | 4           |
| 1,2                                                                     | 10/9/2023  | 10/13/2023 | OV              | 000956 | FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)                 |             |
| 1,2                                                                     | 12/4/2023  | 12/8/2023  | EXAD            | 000500 | FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)                            |             |
| <b>Cyber Security - Limerick</b>                                        |            |            |                 |        |                                                                             | 4           |
| 1,2                                                                     | 12/4/2023  | 12/8/2023  | IP 71130.10     | 000741 | Cybersecurity                                                               |             |
| <b>PI&amp;R Biennial Team Inspection - Limerick</b>                     |            |            |                 |        |                                                                             | 4           |
| 1,2                                                                     | 1/29/2024  | 2/2/2024   | IP 71152B       | 000747 | Problem Identification and Resolution                                       |             |
| 1,2                                                                     | 2/12/2024  | 2/16/2024  | IP 71152B       | 000747 | Problem Identification and Resolution                                       |             |
| <b>Access Control, Equipment Testing and Maintenance, Training, SPR</b> |            |            |                 |        |                                                                             | 3           |
| 1,2                                                                     | 3/4/2024   | 3/8/2024   | IP 71130.02     | 000734 | Access Control                                                              |             |
| 1,2                                                                     | 3/4/2024   | 3/8/2024   | IP 71130.04     | 000736 | Equipment Performance, Testing, and Maintenance                             |             |
| 1,2                                                                     | 3/4/2024   | 3/8/2024   | IP 71130.07     | 000739 | Security Training                                                           |             |
| 1,2                                                                     | 3/4/2024   | 3/8/2024   | IP 71130.09     | 001656 | Security Plan Changes                                                       |             |
| 1,2                                                                     | 3/4/2024   | 3/8/2024   | IP 71151        | 001338 | Performance Indicator Verification                                          |             |
| <b>Inservice Inspection - Limerick Unit 1</b>                           |            |            |                 |        |                                                                             | 1           |
| 1                                                                       | 4/15/2024  | 4/19/2024  | IP 71111.08G    | 000701 | Inservice Inspection Activities (BWR)                                       |             |
| <b>RP - 71124.01 Rad Hazards</b>                                        |            |            |                 |        |                                                                             | 1           |
| 1,2                                                                     | 4/15/2024  | 4/19/2024  | IP 71124.01     | 000725 | Radiological Hazard Assessment and Exposure Controls                        |             |

# Site Inspection Activity Plan

|                                                             |            |            |                 |        |                                                                                               |   |
|-------------------------------------------------------------|------------|------------|-----------------|--------|-----------------------------------------------------------------------------------------------|---|
| <b>RP - 71124.03 Airborne and 71124.04 Dose</b>             |            |            |                 |        |                                                                                               | 1 |
| 1,2                                                         | 6/3/2024   | 6/7/2024   | IP 71124.03     | 000727 | In-Plant Airborne Radioactivity Control and Mitigation                                        |   |
| 1,2                                                         | 6/3/2024   | 6/7/2024   | IP 71124.04     | 000728 | Occupational Dose Assessment                                                                  |   |
| <b>License Renewal Phase 2 - Limerick Unit 1</b>            |            |            |                 |        |                                                                                               | 4 |
| 1                                                           | 6/10/2024  | 6/14/2024  | IP 71003        | 000687 | Post-Approval Site Inspection for License Renewal                                             |   |
| 1                                                           | 6/24/2024  | 6/28/2024  | IP 71003        | 000687 | Post-Approval Site Inspection for License Renewal                                             |   |
| <b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - LIM</b>     |            |            |                 |        |                                                                                               | 5 |
| 1,2                                                         | 8/5/2024   | 8/9/2024   | IP 71130.03     | 000735 | Contingency Response - Force-On-Force Testing                                                 |   |
| 1,2                                                         | 8/26/2024  | 8/30/2024  | IP 71130.03     | 000735 | Contingency Response - Force-On-Force Testing                                                 |   |
| <b>Commercial Grade Dedication - Limerick</b>               |            |            |                 |        |                                                                                               | 3 |
| 1,2                                                         | 9/16/2024  | 9/20/2024  | IP 71111.21N.03 | 001808 | Commercial Grade Dedication                                                                   |   |
| 1,2                                                         | 9/30/2024  | 10/4/2024  | IP 71111.21N.03 | 001808 | Commercial Grade Dedication                                                                   |   |
| <b>2024 Limerick Initial Licensing Exam</b>                 |            |            |                 |        |                                                                                               | 5 |
| 1,2                                                         | 9/23/2024  | 9/27/2024  | OV              | 000956 | FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)                                   |   |
| 1,2                                                         | 10/28/2024 | 11/8/2024  | EXAD            | 000500 | FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)                                              |   |
| <b>RP - 71124.06 RETS</b>                                   |            |            |                 |        |                                                                                               | 1 |
| 1,2                                                         | 10/7/2024  | 10/11/2024 | IP 71124.06     | 000730 | Radioactive Gaseous and Liquid Effluent Treatment                                             |   |
| <b>EP Program Inspection - Limerick</b>                     |            |            |                 |        |                                                                                               | 1 |
| 1,2                                                         | 11/4/2024  | 11/8/2024  | IP 71114.02     | 000717 | Alert and Notification System Testing                                                         |   |
| 1,2                                                         | 11/4/2024  | 11/8/2024  | IP 71114.03     | 000718 | Emergency Response Organization Staffing and Augmentation System                              |   |
| 1,2                                                         | 11/4/2024  | 11/8/2024  | IP 71114.04     | 000719 | Emergency Action Level and Emergency Plan Changes                                             |   |
| 1,2                                                         | 11/4/2024  | 11/8/2024  | IP 71114.05     | 000720 | Maintenance of Emergency Preparedness                                                         |   |
| 1,2                                                         | 11/4/2024  | 11/8/2024  | IP 71151        | 001397 | Performance Indicator Verification                                                            |   |
| <b>RP - 71124.08 Radwaste and 71151 PIV</b>                 |            |            |                 |        |                                                                                               | 1 |
| 1,2                                                         | 11/4/2024  | 11/8/2024  | IP 71124.08     | 000732 | Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation |   |
| 1,2                                                         | 11/4/2024  | 11/8/2024  | IP 71151        | 000746 | Performance Indicator Verification                                                            |   |
| <b>Comprehensive Engineering Team Inspection - Limerick</b> |            |            |                 |        |                                                                                               | 7 |
| 1,2                                                         | 1/13/2025  | 1/17/2025  | IP 71111.21M    | 000713 | Comprehensive Engineering Team Inspection                                                     |   |
| 1,2                                                         | 1/27/2025  | 1/31/2025  | IP 71111.21M    | 000713 | Comprehensive Engineering Team Inspection                                                     |   |
| <b>Inservice Inspection - Limerick Unit 2</b>               |            |            |                 |        |                                                                                               | 1 |
| 2                                                           | 5/5/2025   | 5/9/2025   | IP 71111.08G    | 000701 | Inservice Inspection Activities (BWR)                                                         |   |
| <b>RP- 71124.01 Rad Hazards</b>                             |            |            |                 |        |                                                                                               | 1 |
| 2                                                           | 5/12/2025  | 5/16/2025  | IP 71124.01     | 000725 | Radiological Hazard Assessment and Exposure Controls                                          |   |