



September 30, 2025

TP-LIC-LET-0458
Docket Number 50-613

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

Subject: Regulatory Engagement Plan for the Kemmerer Unit 1 Operating License Application

References: 1. TerraPower, LLC, "Submittal of the Construction Permit Application for the Natrium Reactor Plant, Kemmerer Power Station Unit 1," March 28, 2024 (ML24088A059).

Pursuant to Title 10 of the *Code of Federal Regulations*, Part 50 (10 CFR 50), "Domestic Licensing of Production and Utilization Facilities," TerraPower, LLC (TerraPower), on behalf of US SFR Owner, LLC (USO), submitted a construction permit application (CPA) to construct a Natrium[®] Reactor Plant¹ at the Kemmerer Power Station Unit 1 (KU1) site (Reference 1). The enclosed Regulatory Engagement Plan (REP) is being provided to establish a structured framework for interactions between TerraPower and the US Nuclear Regulatory Commission (NRC) prior to submittal of an operating licensing application for KU1.

The REP is also being submitted to define the scope of activities that qualify for the Reduced Hourly Rate as defined in the Fiscal Year 2025 Final Fee Rule, effective October 1, 2025. In addition to the activities outlined in the enclosure, TerraPower also requests all reviews currently ongoing associated with Reference 1, including the review of

¹ Natrium is a TerraPower and GE Vernova Hitachi Nuclear Energy Technology.



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documents incorporated by reference and therefore part of an advanced nuclear reactor construction permit, qualify for the Reduced Hourly Rate.

This letter makes no new or revised regulatory commitments. If you have any questions regarding this submittal, please contact Ian Gifford at igifford@terrapower.com.

Sincerely,

A handwritten signature in cursive script that reads "George Wilson".

George Wilson
Senior Vice President, Regulatory Affairs
TerraPower, LLC

cc: Mallecia Sutton, NRC
Josh Borromeo, NRC
Nathan Howard, DOE

Enclosure: NAT-9408, Revision 0, "Regulatory Engagement Plan for the Kemmerer Unit 1 Operating License Application"

ENCLOSURE 1

**NAT-9408, Revision 0, "Regulatory Engagement Plan for the Kemmerer Unit 1
Operating License Application"**



Document Title: Regulatory Engagement Plan for the Kemmerer Unit 1 Natrium Reactor Plant Operating License Application				
Natrium Document No.: NAT-9408	Rev. No.: 0	Page: 1 of 17	Doc Type: Report	Target Quality Level: N/A
Alternate Document No.: N/A	Alt. Rev.: N/A	Originating Organization: Licensing		Quality Level: N/A
Natrium MSL ID: Licensing & Permitting	Status: Released			Open Items? N/A
Approval				
Approval signatures are captured and maintained electronically; see Electronic Approval Records in EDMS. Signatures or Facsimile of Electronic Approval Record attached to document.				

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1 INTRODUCTION

The purpose of this Regulatory Engagement Plan (REP) is to establish a structured framework for interactions between the US SFR Owner, LLC (USO), a wholly owned subsidiary of TerraPower, LLC (TerraPower), and the United States Nuclear Regulatory Commission (NRC) to support the timely, efficient, and transparent review of the Natrium® Reactor Plant Operating License Application (OLA) at the Kemmerer Power Station Unit 1 site (KU1).¹ This REP is submitted as a “Qualifying Licensing Project Plan” under the Nuclear Energy Innovation and Modernization Act (NEIMA) and the Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy (ADVANCE) Act. This REP includes all activities relating to or supporting the activities described in the following sections of this document. Additional activities may be added as needed.

This REP is intended to:

- Facilitate early and frequent communication.
- Identify key engagement topics and milestones.
- Align expectations regarding scope, content, and schedule of submittals.
- Provide a risk-informed and performance-based approach to regulatory interactions.

1.1 Summary of Strategic Project Approach/Goals

The approach to the OLA is like that used for the Construction Permit Application (CPA). USO is using the licensing process in Title 10 of the Code of Federal Regulations (10 CFR) Part 50, “Domestic Licensing of Production and Utilization Facilities,” (Reference 1) to move from a construction permit to an operating license.

Aspects of the project’s approach that could influence or impact the extent of the pre-application, NRC staff review schedule, or the need for NRC staff training and familiarity with the project may include:

- Unique approaches with respect to compliance with NRC regulations and guidance and the use of the Licensing Modernization Project
- The extent that the Natrium Technology represents first-of-a-kind design and unique implementation of previously demonstrated technologies
- Design review challenges associated with the use of commercial codes and standards
- Identifying an appropriate scope and depth of information needed for approval

1.2 Objectives

The objectives of the REP are to:

- Promote Transparency: Ensure NRC staff have timely access to design and licensing information.

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- Enable Predictability: Establish mutually agreed engagement milestones to support efficient scheduling.
- Facilitate A Risk-Informed Review: Focus interactions on safety-significant topics and novel features.
- Support Licensing Efficiency: Identify areas where topical reports (TRs), white papers, or pre-application submittals can reduce future review effort.
- Build Public Confidence: Demonstrate regulatory rigor and early resolution of safety, security, and environmental issues.

1.3 Approach

The REP is expected to be a living document that will be updated and expanded as plans evolve. As such, USO expects to:

- Communicate and seek alignment with NRC staff when changes to the information contained in the REP are needed.
- Periodically update the REP.

2 PROJECT OVERVIEW

2.1 Company/Project Structure

The Sodium Reactor Plant is a TerraPower and GE Vernova Hitachi (GVH) Nuclear Energy technology that features a sodium-cooled fast reactor (SFR) combined with a molten salt energy storage system.

2.2 Technology Summary

The Sodium reactor is a metal-fueled, pool type SFR that takes advantage of the simple and robust safety profile of SFRs to reduce the complexities associated with nuclear design and construction, resulting in a vastly simplified reactor building. The superior heat transfer characteristics of sodium and operating at low pressure permit the use of compact and lightweight equipment, unlike in other reactor types cooled with pressurized water or gas.

The Sodium reactor is coupled to a molten salt loop that transports heat from the nuclear island to the energy island. This minimizes the amount of equipment and structures on the nuclear site and enables load following, coupling to thermal energy storage, and industrial heat applications.

The higher operating temperature and constant thermal output make an ideal match for thermal energy storage using molten salt, a technology that is commercially deployed in the solar industry. Hot sodium from the reactor transfers its heat to intermediate sodium. Heat from the intermediate sodium is then transferred to a molten salt loop, which carries heat off the nuclear island where it can be stored, converted into electricity, or used for industrial process heating. This “decoupled” architecture minimizes the size of the nuclear site and allows the reactor to operate at constant conditions while the energy island meets variable energy demands. The Sodium reactor is rated at 840MW thermal. The energy island will have the capability to produce up to 500MW electric.

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3 REGULATORY ENGAGEMENT STRATEGY

Identifying key topics that need to be resolved early and gaining an understanding of how planned submittals will provide required content and design information is key to a predictable review schedule.

3.1 Types of Engagement

- Pre-Application Interactions: Technical meetings, site visits, and audits.
- Regular Status Meetings: Periodic meetings with NRC staff.
- Focused Technical Discussions: On areas that are unique to the Sodium design or that are new to NRC staff.
- Document Submittals: Including white papers, TRs, and technical reports.
- Document Roadmap Alignment: Early review of chapter outlines of the OLA Final Safety Analysis Report (FSAR).

3.2 Communication Protocols

- Routine meetings with NRC Project Managers.
- Ad hoc meetings with NRC staff to discuss technical and non-technical topics.
- Public meetings with NRC staff to discuss topics of interest.
- Drop-in visits at either NRC or TerraPower offices or sites.
- Written documents provided on the docket, which may include white papers, TRs, and technical reports, among others.

3.3 Assessing Alignment and Gaps

Pre-application interactions will be conducted with NRC staff to align on gap resolution not previously identified at the CPA stage.

3.4 Key Milestones

Key milestones are major planned activities and decision points that represent significant progress toward licensing and require coordination between USO and the NRC. Achieving key milestones requires identifying and resolving potential licensing issues early. To this end, a list of anticipated milestones has been developed and appears further on in this document.

3.5 Key Areas for Engagement

Major design changes, white papers, TRs, and technical reports are expected to become key areas for engagement. To this end, a list has been developed and appears further on in this document.

3.6 Escalation of Issues

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It is expected that USO and NRC staff will develop a process for escalating issues that arise during the review.

4 PRE-APPLICATION ENGAGEMENT

USO will facilitate pre-application engagements (e.g., teleconferences, video conferences, and face-to-face meetings) with the NRC staff. The primary objectives of these engagements are to identify, assess, and mitigate regulatory risks. The primary benefits for planning these engagements are alignment on content, scope, and level of detail, and to reduce regulatory uncertainty. USO will coordinate with NRC staff to establish an appropriate engagement schedule of open and closed meetings until application submittal. The purpose of these meetings is to ensure NRC staff has timely and accurate information to complete its safety and environmental determinations with respect to agency resource availability. USO understands the need to notify the public of agency meetings and will support efforts for early meeting notifications.

In coordination with NRC staff, topics can be prioritized and interactions optimized to address those issues most important to the overall project plan.

4.1 Identification of Topics

The various tables near the end of this document contain milestones and lists of topics that have the potential to warrant engagement with NRC staff during the pre-application process:

Table 6-1: New Topical Reports – Lists new TRs that will be required for the OLA.

Table 6-2: Revised Topical Reports – Lists TRs that were reviewed during the CPA but that have since been revised and will require review for the OLA.

Table 6-3: Exemptions to Support OLA – Contains a list of anticipated/known exemptions that will be required for OLA.

Table 6-4: Meetings, White Papers, and Miscellaneous Engagements – Contains a list of other documents or activities that may require review by NRC staff.

The NRC staff will be notified if additional topics are needed for planning and budget purposes. Timely pre-application engagement for each identified topic is important to keep NRC staff informed and aligned on schedule. Some of the pre-application engagements are estimated based on current information and are subject to change as the project progresses.

Topics important to address in pre-application engagements are selected because of a potential tie to a:

- deviation from guidance;
- generic or industry issue;
- design-specific issue; or
- site-specific issue.

4.2 Topics for Pre-Application Engagement Meetings

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It is anticipated that USO and NRC staff will perform an initial review of the items listed in this REP to determine those desired to be scheduled for engagement. Those items will then become the focus of the initial set of pre-application engagements. Topics and issues may be added or removed as deemed necessary and the REP will be revised and re-issued periodically.

4.3 Prioritization of Topics

Topics for pre-application interaction are prioritized based on complexity; schedule, licensing timelines, and resource availability. Early interactions with NRC staff and management will focus on the selection of topics with potentially broad programmatic impact such as:

- Quality Assurance program and procedure development;
- issues that could impact long-lead material and equipment procurement;
- fuel qualification; and
- testing.

4.4 Types and Frequency of Interactions

The types and frequency of interactions anticipated between USO and NRC staff can be found in Sections 3.1 and 3.2 and may include phone calls, teleconferences, or meetings to solicit feedback on proposed technical approaches, or audits/inspections of the engineering information, testing facilities, etc. to support the OLA.

4.5 Continuous Improvement

The REP will be treated as a living document and updated as project milestones, NRC feedback, or design changes warrant.

4.6 Schedule Considerations

Pre-application engagements will establish a schedule of meetings and submittals, and the timing/duration of NRC staff reviews and public meetings. Additionally, the expectations for communicating changes to the schedule and scope will also be established.

4.7 Relation to Other Proceedings/Reviews

The OLA will build on the information provided in the CPA.

5 SCHEDULE

Sections 3 and 4 outline general considerations for pre-application interactions and document submittals, including periodic schedule reviews and management-level reviews of schedule performance following submittal and docketing of the application. Topics may be considered for inclusion or revision during the course of the REP and were used in developing the tables that follow. The schedule will consist of the following phases:

5.1 Pre-Application

- Routine project management meetings

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- Technical exchanges, including issue identification and resolution meetings and NRC staff familiarization sessions
- Establishment of long-lead programmatic items
- Submittal of TRs, technical reports, white papers, etc.
- Pre-application site visits, and audits
- Pre-application readiness assessment

5.2 Application

- Resolution of readiness assessment issues
- Finalization and submittal of the application
- Acceptance review

5.3 Post-Application

- Docketing and NRC notifications
- Establishment of review schedules, including Advisory Committee on Reactor Safeguards (ACRS) interactions
- Audits and inspections
- Periodic management reviews of schedule performance

Not Confidential*Controlled Document - Verify Current Revision***6 TABLES****Table 6-1: New Topical Reports**

Topic	Timeframe*	Scope and Desired Outcome
Comprehensive Vibration Assessment Program (CVAP)	26Q1	SCOPE: Discuss CVAP TR and methods of conforming to Regulatory Guide 1.20. OUTCOME: NRC approval of the program described.
Sodium-Salt Interactions	26Q2	SCOPE: Describe the sodium-salt interaction (quantitative and testing). Propose approach to preventing the interaction in Sodium-Salt Heat Exchanger design. OUTCOME: NRC approval of the methodology described for defining the sodium-salt interaction and the preventative features of the SHX design.
Technical Specifications & Technical Requirements Manual Methodology	26Q3	SCOPE: Topical Report outlines the method used to develop the Tech Specs and the Technical Requirements Manual OUTCOME: NRC approval of the method described.
Criticality Methodology	26Q3	SCOPE: Topical report covers each spent fuel storage location (e.g., IVS, EVST, SFP) criticality methodology and results. OUTCOME: NRC approval of the method described and the Sodium core assembly storage locations.
Core Design	26Q3	SCOPE: Discuss strategy of providing detailed core design information in a new TR. OUTCOME: NRC understanding, and approval of the Sodium reactor core design.
Plant-Referenced Simulator Design and V&V	26Q3	SCOPE: Discuss the methodologies for conducting major activities (e.g., sampling of operational conditions, verification and validation, simulator fidelity, ISV, human engineering discrepancy resolution, and malfunctions). OUTCOME: NRC staff approval of defined activities necessary for having an approved plant-referenced simulator for performing control manipulations so that Operator Licensing training and examination can be completed without the need for a deferral.
Sodium Scaling Methodology	26Q3	SCOPE: Describe the overall methodology for scaled testing to support the Sodium design and Probabilistic Risk Assessment (PRA) and safety analysis assumptions. OUTCOME: NRC approval of the overall approach to scaled testing.
Software Life Cycle	26Q4	SCOPE: Describe the overall methodology software life cycle. OUTCOME: NRC approval of the method described.

* Approximate timeframe, subject to change

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Topic	Timeframe*	Scope and Desired Outcome
Update to NAT-9395 Partial Flow Blockage Methodology	26Q3	SCOPE: Provide general updates to the TR and document previous plan execution. Will provide information related to adequacy of method following benchmarks, scaling, and experiments. OUTCOME: NRC approval of the methodology.
Update to NAT-9393 Reactor Stability Methodology	26Q3	SCOPE: Provide general updates to the TR. Additional Sodium values for the report were in development at prior revision submittal, new revision will capture these. OUTCOME: NRC approval of the methodology..
Update to NAT-4950 I&C Architecture and Design Basis Topical Report	26Q4	SCOPE: Brief staff on the updates to Instrumentation and Controls (I&C) architecture based on detailed design. OUTCOME: NRC understanding and approval of the I&C architecture.
Update to NAT-9394 DBA Transient Methods for Events with Radiological Release	26Q4	SCOPE: Provide general updates to the TR and document previous plan execution. Will provide information related to adequacy of method following benchmarks, scaling, and experiments. OUTCOME: NRC approval of the methodology.
Update to NAT-9390 DBA In-Vessel Transient Methodology for Events without Radiological Release	26Q4	SCOPE: Provide general updates to the TR and document previous plan execution. Will provide information related to adequacy of method following benchmarks, scaling, and experiments. OUTCOME: NRC approval of the methodology
Update to NAT-9392 (TP-LIC-RPT-0003) Radiological Source Term Methodology	26Q4	SCOPE: Provide general updates to the TR and document previous plan execution. Will provide information related to adequacy of method following benchmarks, scaling, and experiments. OUTCOME: NRC approval of the methodology.
Update to NAT-2965 Human Factors Engineering	27Q1	SCOPE: Provide general updates to the TR. OUTCOME: NRC approval of the approach described in the report.
Update to NAT-2806 Fuel and Control Assembly Qualification	27Q2	SCOPE: Provide general updates to the TR. Revision will document results from qualification testing and include considerations for Type 1B fuel. OUTCOME: NRC approval of the qualification plan.

* Approximate timeframe, subject to change

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Topic	Timeframe*	Scope and Desired Outcome
Technical Specifications & Technical Requirements Manual Approach	26Q1	<p>SCOPE: Framework and strategy, PRA Information Use in Risk-Informed Technical Specifications, Scoping Process (including TRM), exemption from 50.36.</p> <p>OUTCOME: NRC staff's understanding and feedback on TS strategy and scope of exemption.</p>
Physical Security Plan	26Q2	<p>SCOPE: Discuss physical security plan regulatory compliance and possible exemption.</p> <p>OUTCOME: NRC understanding and feedback on physical security plan and exemption scope.</p>
Elimination of the Shift Technical Adviser	26Q3	<p>SCOPE: Discuss the approach to the exemption eliminating the STA from the Main Control Room minimum staffing.</p> <p>OUTCOME: NRC understanding and feedback on the exemption approach.</p>
Control Room Staffing	27Q3	<p>SCOPE: Propose Control Room staffing plan and details for exemption from STA requirements and potentially 50.54(m).</p> <p>OUTCOME: NRC understanding and feedback on the staffing plan and exemption justification.</p>
TIRICE Implementation	27Q4	<p>SCOPE: Approach to implementing Technology-Inclusive Risk-Informed Change Evaluation (TIRICE) and scope of required exemption to 50.59.</p> <p>OUTCOME: NRC staff's understanding and feedback on approach and exemption scope.</p>

* Approximate timeframe, subject to change

Not Confidential*Controlled Document - Verify Current Revision***Table 6-4: Meetings, White Papers, and Miscellaneous Engagements**

Topic	Timeframe*	Scope and Desired Outcome
Technical Specifications & Technical Requirements Manual Approach	26Q1	SCOPE: Meeting & White Paper; Framework and strategy, PRA Information Use in Risk-Informed TS, Scoping Process (including TRM), exemption from 50.36. OUTCOME: NRC staff's understanding and feedback on TS strategy and scope of exemption.
Fire Protection (FP)	26Q1	SCOPE: Meeting & White Paper; Approach to fire protection for Sodium, KU1 Fire Protection Plan (including fire brigade strategy), plan for FHA, FPRA, SSA. OUTCOME: NRC understanding and feedback on overall FP strategy.
Nuclear Methods Benchmark Validation and Uncertainty Calculations	26Q1	SCOPE: Meeting & White Paper; Describe Sodium nuclear method FOMs, V&V, historical benchmarks, and plans. OUTCOME: NRC understanding and feedback on use of historical data to validate neutronics codes.
Emergency Preparedness – Emergency Action Level Methodology	26Q1	SCOPE: Meeting & White Paper; Propose Sodium-specific Emergency Action Level Methodology. OUTCOME: NRC understanding and feedback on a Sodium-specific methodology using similar approach of Nuclear Energy Institute (NEI) 07-01 and NEI 99-01 Rev 7.
Fuel Handling Design and Construction Code Application for IVTM and FTL	26Q1	SCOPE: Meeting; Discussion current code application for the design of the (In-Vessel Transfer Machine (IVTM) and Fuel Transfer Lift (FTL). OUTCOME: NRC feedback on code application for the IVTM and FTL.
Seismic Isolation System design and qualification	26Q1	SCOPE: Meeting; Present seismic isolation system design and qualification plan details. OUTCOME: NRC understanding and feedback on Seismic Isolation System design details and qualification plan.
RAC Method Modeling and Validation	26Q2	SCOPE: Meeting; RAC plan for method code validation and acceptance including discussion of known phenomena. OUTCOME: NRC understanding and feedback on strategies to address important phenomena and V&V.
Use of Computational Fluid Dynamics (CFD) in lieu of testing	26Q2	SCOPE: Meeting; Describe strategies for determining acceptable use of CFD to supplement historical data and testing for core thermal hydraulics. OUTCOME: NRC understanding and feedback on acceptability of using CFD for methods to supplement testing.
Emergency Preparedness - E-plan	26Q2	SCOPE: Meeting; Description of the E-plan approach and regulatory guidance used to implement 50.160. OUTCOME: NRC understanding and feedback on the approach to implementing 50.160 in the E-plan using available guidance.

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Topic	Timeframe*	Scope and Desired Outcome
Offsite Dose Calculation Manual (ODCM)	26Q2	SCOPE: Meeting; Propose approach to ODCM using NEI 07-09A template, including Radiological Environmental Monitoring Program, and Natrium-specific dose calculation methodology. OUTCOME: NRC understanding and feedback on how Natrium complies with 50.36a, RG 1.21 Rev 3, and the specific methodology for dose calculation.
Technical Specifications & Technical Requirements Manual - Resulting Requirements	26Q2	SCOPE: Meeting; Discuss the final content of the proposed technical specifications and items that were screened out of the technical specification scope. OUTCOME: NRC staff understanding of the content of the proposed technical specifications that will be submitted with the OLA.
PITAP	26Q3	SCOPE: Meeting; Describe the planned scope of pre-operational and initial startup testing to be included in the FSAR. Compare to Regulatory Guide (RG) 1.68 requirements. OUTCOME: NRC understanding and feedback on expectations for the level of detail and amount of testing included in the FSAR/licensing basis.
Use of digital components in I&C design	26Q4	SCOPE: Meeting; Discuss the digital components that have been identified for I&C systems based upon detailed design and procurement. Provide detailed description of industry codes and standards being used to comply with regulation and conform to regulatory guidance. OUTCOME: NRC understanding and feedback on the methods being used to comply with regulation and conform to regulatory guidance.
Cyber Security Plan	27Q1	SCOPE: Meeting; Discuss conformance of cyber security plan to industry guidance. OUTCOME: NRC understanding and feedback on cyber security plan.
30/40/70 Licensing Considerations	27Q1	SCOPE: Meeting; Propose approach to licensing radioactive materials for receipt prior to OLA issuance including program staging and general timelines. OUTCOME: NRC understanding and feedback on approach to license, receive, and possess materials through 10 CFR Parts 30, 40, and 70.
Design changes since PSAR	27Q1	SCOPE: Meeting; Brief NRC on major design changes since the CP was issued. OUTCOME: NRC awareness of changes to the design to be included in the FSAR.
Licensing Exam Standard / Knowledge and Abilities (K&A) Catalog	27Q1	SCOPE: Meeting; Develop the requirements for conducting Operator Licensing examinations. OUTCOME: Provide NRC with the information needed to be used for consideration for input to the KU1 section of NUREG-1021 (i.e., Natrium-specific K&A Catalog) to support an exam early in 2028. Gain alignment on the exemptions from the requirements in NUREG-1021 involving exam validation, exam prep, comparable facilities, required control manipulations, quantitative attributes, criteria for critical tasks, and use of part-task/limited scope simulator, among others.

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Topic	Timeframe*	Scope and Desired Outcome
ER Updates	27Q1	<p>SCOPE: Meeting; Present a comparison of the CPA Final Environmental Impact Statement (FEIS) to updated OLA Environmental Report (ER) content. Address commitments made in CPA ER/FEIS.</p> <p>OUTCOME: NRC understanding of what will be included as an Environmental Report supplement and receive feedback.</p>
Outcome of R&D	27Q1	<p>SCOPE: Meeting; Discuss the results of the R&D items described in Preliminary Safety Analysis Report (PSAR) Chapter 13.</p> <p>OUTCOME: NRC understanding of the R&D and how results were integrated into design and analyses.</p>
PRA Peer Review	27Q1	<p>SCOPE: Meeting; Discuss the results of the Peer Review and discuss Facts and Observations, including closure plans.</p> <p>OUTCOME: NRC understanding of the Peer Review results and Facts and Observations.</p>
PRA Updates	27Q2	<p>SCOPE: Meeting; Discuss Methodologies for Seismic, Fire, High Winds, and Internal Flooding. Highlight where existing non-Light-Water Reactor or Light-Water Reactor guidance does not apply.</p> <p>OUTCOME: NRC understanding and feedback on the methods being used for the external hazard PRAs.</p>
10 CFR 50.155 Compliance Strategy	27Q2	<p>SCOPE: Meeting; Discuss method for compliance with 10 CFR 50.155.</p> <p>OUTCOME: NRC understanding and feedback on implementation of 10 CFR 50.155 for new technology.</p>
Safety Analysis updates	27Q2	<p>SCOPE: Meeting; Update NRC on major analysis, Licensing Basis Events, and safety classification changes since the CP was issued.</p> <p>OUTCOME: NRC awareness of how changes to design affect safety analysis results.</p>
Generic Technical Guidelines (GTG)	27Q2	<p>SCOPE: Meeting; Describe the overall approach to generating Generic Technical Guidelines that will be used as the basis for plant specific technical guides used for EOPs.</p> <p>OUTCOME: NRC understanding and feedback prior to GTG submittal.</p>

* Approximate timeframe, subject to change

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Acronym	Definition
ACRS	Advisory Committee on Reactor Safeguards
ADVANCE	Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy
CFD	Computational Fluid Dynamics
CP	Construction Permit
CPA	Construction Permit Application
CVAP	Comprehensive Vibration Assessment Program
DEIS	Draft Environmental Impact Statement
DOE	Department of Energy
EIS	Environmental Impact Statement
ER	Environmental Report
FEIS	Final Environmental Impact Statement
FP	Fire Protection
FTL	Fuel Transfer Lift
FSAR	Final Safety Analysis Report
FSER	Final Safety Evaluation Report
GTG	Generic Technical Guidelines
GVH	GE Vernova Hitachi
I&C	Instrumentation and Controls
IVTM	In-Vessel Transfer Machine
NEI	Nuclear Energy Institute
NEIMA	Nuclear Energy Innovation and Modernization Act
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
OLA	Operating License Application
PRA	Probabilistic risk assessment
PSAR	Preliminary Safety Analysis Report
RAI	Requests for additional information
REP	Regulatory Engagement Plan
RG	Regulatory Guide
SEIS	Supplemental Environmental Impact Statement
SFR	Sodium-cooled fast reactor
TIRICE	Technology-Inclusive Risk-Informed Change Evaluation

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1. United States Code of Federal Regulations, "Domestic Licensing of Production and Utilization Facilities," Part 50, Chapter I, Title 10, "Energy."
2. Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy (ADVANCE) Act of 2024, Public Law 118-67, 118th Congress.
3. Nuclear Energy Innovation and Modernization Act (NEIMA), Public Law 115-439, 115th Congress.

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