

**The U.S. Nuclear Regulatory Commission's April 2025 status report as required by  
Section 5(c) of Executive Order 14156, of January 20, 2025, "Declaring a National Energy  
Emergency"**

In accordance with Section 5(c) of Executive Order 14156, entitled "Declaring a National Energy Emergency," dated January 20, 2025, the U.S. Nuclear Regulatory Commission (NRC) is providing the below list of all current, planned, or potential NRC licensing actions that support the production, generation, and supply of domestic energy that may be subject to this requirement, as of this April 31, 2025 report.

Changes in this Report

The Section 7 Endangered Species Act (ESA) consultation for the subsequent license for the project, "Diablo Canyon Power Plant, Units 1 & 2 (Pacific Gas & Electric Co.) License Renewal Application," was completed on April 21, 2025, and has been removed from this list.

Tennessee Valley Authority submitted a Construction Permit Application for the Clinch River Nuclear Site in Oak Ridge, Tennessee on May 20, 2025, and has been moved from "Planned or Potential License Application Reviews," to "Current Licensing Reviews."

The "Kairos Power Atlas Fuel Fabrication Facility" has been added back to the list of planned or potential license applications for nuclear fuel cycle facilities, correcting an error in last month's report.

Additionally, minor edits to project names have been made and identified in bold.

Current Licensing Reviews

The NRC staff are currently reviewing the following license applications. The ESA consultations for these licensing reviews are either complete or ongoing.

1. License applications to construct or operate new energy-generating facilities
  - 1.1. Kemmerer Power Station – Unit 1 (US SFR Owner, LLC [USO], as subsidiary of TerraPower, LLC), Construction Permit Application (DOE ARDP Awardee)
  - 1.2. Long Mott **Generating Station (Long Mott Energy, LLC, a subsidiary of The Dow Chemical Company) (X-Energy Xe-100 technology)** Construction Permit Application (Department of Energy [DOE] Advanced Reactor Demonstration Program [ARDP] Awardee)
  - 1.3. Clinch River Nuclear Site (Tennessee Valley Authority), Construction Permit Application
2. License applications actions to restart operation of nuclear power plant
  - 2.1. Palisades Nuclear Plant (Holtec Palisades, LLC), License Amendment Requests to restart operation of the power plant
3. License renewal or subsequent license renewal applications for operating nuclear power plants

- 3.1. Peach Bottom Atomic Power Station, Units 2 & 3 (Constellation Energy Generation, LLC), Subsequent License Renewal
  - 3.2. Point Beach Nuclear Plant, Units 1 & 2 (NextEra Energy Point Beach, LLC), Subsequent License Renewal
  - 3.3. Browns Ferry Nuclear Plant (Tennessee Valley Authority), Subsequent License Renewal
  - 3.4. Virgil C. Summer Nuclear Station, Unit 1 (Dominion Energy South Carolina), Subsequent License Renewal
  - 3.5. Clinton Power Station, Unit 1 (Constellation Energy Generation, LLC), License Renewal
  - 3.6. Perry Nuclear Power Plant, Unit 1 (Vistra Operations Company LLC) License Renewal
  - 3.7. St. Lucie Plant, Units 1 & 2 (Florida Power & Light Co.) Subsequent License Renewal Application
  - 3.8. Dresden Nuclear Power Station, Units 2 & 3 (Constellation Energy Generation, LLC) Subsequent License Renewal Application
4. License applications related to the exceedance of an operating nuclear plant's incidental take statement
    - 4.1. Brunswick Steam Electric Plant, Units 1 & 2 (Duke Energy Progress, LLC), exceedance of incidental take statement for species listed under the ESA
    - 4.2. St. Lucie, Units 1 and 2 (Florida Power & Light Co.), exceedance of incidental take statement for species listed under the ESA
5. License applications for nuclear fuel cycle facilities
    - 5.1. Dewey-Burdock (Powertech (USA) Inc.), Uranium In-Situ Recovery Facility License Renewal
    - 5.2. Crow Butte (Crow Butte Resources, Inc.), Uranium In-Situ Recovery Facility License Renewal
    - 5.3. Crownpoint Uranium Project (NuFuels, Inc.), Uranium In-Situ Recovery Facility License Renewal
    - 5.4. Louisiana Energy Services (LES) LLC, (Urenco USA), **Amendment to increase enrichment limits for waste systems**
    - 5.5. TRISO-X Fuel Fabrication Facility (TRISO-X, LLC), New Fuel Fabrication Facility License
    - 5.6. Framatome Fuel Fabrication Facility (Framatome), **Amendments (multiple) to increase enrichment limits**
    - 5.7. Paducah Laser Enrichment Facility (Global Laser Enrichment, LLC), New Fuel **Enrichment** Facility License

#### Planned or Potential License Application Reviews

The NRC staff currently anticipates the following license reviews based on a combination of the following factors: the potential applicant or licensee has selected a site, is considered within near-term budget planning, and has either submitted a letter of intent or regulatory engagement plan to the NRC or has held multiple pre-application meetings with NRC staff. This list does not include any propriety or non-public information.

6. Planned or potential license applications to construct or operate new energy generating facilities
  - 6.1. North Anna Site (Dominion Energy), Renewal of an Early Site Permit
  - 6.2. Belews Creek Site (Duke Energy Business Services, LLC), Early Site Permit
  - 6.3. Palisades Site Holtec SMR-300 (Holtec, Inc.), Limited Work Authorization and Construction Permit Applications
  - 6.4. Energy Northwest Small Modular Reactor (SMR) Project (Energy Northwest), Xe-100 Construction Permit Application
  - 6.5. Kemmerer Power Station – Unit 1 (US SFR Owner LLC [USO], as subsidiary of TerraPower, LLC), Operating License (DOE ARDP Awardee)
  - 6.6. Oklo Aurora Powerhouse (Oklo Inc.), Combined License Application
  - 6.7. Eielson Air Force Base (Department of Air Force), Construction Permit or Combined License Application
  - 6.8. Texas A&M University RELLIS (Texas A&M), Construction Permit Application, Early Site Permit
  - 6.9. Texas A&M University RELLIS – Aalo Small Modular Reactor (Texas A&M/Aalo), Construction Permit Application
  - 6.10. Texas A&M University RELLIS – Natura Small Modular Reactor (Texas A&M/Natura), Construction Permit Application
  - 6.11. Texas A&M University RELLIS – Terrestrial Small Modular Reactor (Texas A&M/Terrestrial), Construction Permit Application
  - 6.12. Texas A&M University RELLIS – Kairos Small Modular Reactor (Texas A&M/Kairos Power, LLC), Construction Permit Application
  - 6.13. Haskell County, Texas Site, Last Energy, Early Site Permit
  - 6.14. Campbell County, Virginia Site (Appalachian Power Company), Early Site Permit
7. Planned or potential license applications to construct or operate nuclear test or research reactors related to energy generation
  - 7.1. Hermes 1 (Kairos Power, LLC), Operating License Application
  - 7.2. Hermes 2 (Kairos Power, LLC), Operating License Application
  - 7.3. Abilene Christian University Molten Salt Research Reactor (Abilene Christian University), Operating License Application
  - 7.4. University of Illinois at Urbana-Champaign High-Temperature Gas-Cooled Research (HTGR) Reactor (University of Illinois at Urbana-Champaign), Construction Permit Application
8. Planned or potential license applications to restart operation of nuclear power plants
  - 8.1. Crane Clean Energy Center (Constellation Energy Corporation), License Amendment Requests to restart operation of the power plant
  - 8.2. Duane Arnold Energy Center (NextEra Energy Duane Arnold, LLC), License Amendment Requests to restart operation of the power

9. Planned or potential license applications related to extended power uprates<sup>1</sup> at nuclear power plants
  - 9.1. Columbia Generating Station (Energy Northwest), license amendment request
10. Planned or potential applications for license renewal or subsequent license renewal for nuclear power plants
  - 10.1. H.B. Robinson Steam Electric Plant, Unit 2 (Duke Energy Progress, LLC), Subsequent License Renewal
  - 10.2. Edwin I. Hatch Nuclear Plant, Units 1 & 2 (Southern Nuclear Operating Co, Inc.), Subsequent License Renewal
  - 10.3. Duane Arnold Energy Center (NextEra Energy), Subsequent License Renewal
  - 10.4. Palisades Nuclear Plant (Holtec Decommissioning International), Subsequent License Renewal
  - 10.5. Nine Mile Point, Unit 1 (Constellation Energy Generation, LLC), Subsequent License Renewal
  - 10.6. Ginna (Constellation Energy Generation, LLC), Subsequent License Renewal
  - 10.7. Cooper Nuclear Station (Nebraska Public Power District), Subsequent License Renewal
  - 10.8. Watts Bar Nuclear Plant, Unit 1 (Tennessee Valley Authority), License Renewal
  - 10.9. Joseph M. Farley Nuclear Plant, Unit 1 and 2 (Southern Nuclear), Subsequent License Renewal
  - 10.10. Prairie Island Nuclear Generating Plant, Units 1 and 2 (Northern States Power Company), Subsequent License Renewal
  - 10.11. Hope Creek Generating Station (PSEG Nuclear, LLC), Subsequent License Renewal
  - 10.12. Salem Nuclear Generating Station, Units 1 and 2 (PSEG Nuclear, LLC), Subsequent License Renewal
11. Planned or potential license applications for nuclear fuel cycle facilities
  - 11.1. IKE Enrichment Facility (Orano Enrichment USA LLC), New Fuel **Enrichment** Facility License
  - 11.2. Global Nuclear Fuel-Americas (GNF-A) Sodium Fuel Fabrication Facility (Global Nuclear Fuel-Americas, LLC), **Amendment to increase enrichment to produce Advanced Reactor Fuel**
  - 11.3. Westinghouse Columbia Fuel Fabrication Facility (Westinghouse Electric Company LLC), **Amendment to increase enrichment to produce Accident Tolerant Fuel**
  - 11.4. Framatome Fuel Fabrication Facility (Framatome Inc./ Ultra Safe Nuclear Corporation) **Amendment to increase enrichment for Advanced Reactor Fuel**
  - 11.5. Louisiana Energy Services (LES) LLC (Urenco USA), Fuel Enrichment **Facility Increase Enrichment Limits** (multiple) Amendments
  - 11.6. **Kairos Power Atlas Fuel Fabrication Facility (Kairos Power, LLC), New Fuel Fabrication Facility License**
  - 11.7. BWX Technologies, Inc, Fuel Fabrication Facility License Renewal

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<sup>1</sup> Extended power uprates require significant modifications to major balance-of-plant equipment such as the high-pressure turbines, condensate pumps and motors, main generators, and/or transformers and result in increases between 7 percent and 20 percent of the licensed output of nuclear power plants.