

advanced structural and functional materials and to assess neutron-degradation limits of Reduced Activation Ferritic Martensitic (RAFM) alloys beyond 5 MW-year m⁻². In 2022, the Electric Power Research Institute (EPRI) sponsored an FPNS workshop³ at which a strong consensus

was reached in support of an FPNS delivered in 2028 or earlier, that would meet the requirements provided in Table 1, and that FPNS be designed with sufficient capability for future upgrade(s) to deliver increased performance capability by 2032, or

earlier, also as shown in Table 1. There remained a strong consensus that the FPNS neutron spectrum must introduce appropriate levels of gaseous and solid transmutant impurities into the tested materials, consistent with the fusion neutron environment.

TABLE 1—FPNS PERFORMANCE REQUIREMENTS DESIRED BY 2028 OR EARLIER, AND 2032 OR EARLIER
[As indicated in columns 2 and 3, respectively]

Parameter	Capability requirement by 2028 or earlier	Capability requirement by 2032 or earlier
Damage rate	5 to 11 dpa/calendar year (Fe equivalent)	15 dpa/calendar year (Fe equivalent).
Spectrum	Gaseous and solid transmutant generation rates consistent with 14 MeV fusion neutron.	Gaseous and solid transmutant generation rates consistent with 14 MeV fusion neutron.
Sample volume in high flux zone.	≥50 cm ³	≥300 cm ³ .
Temperature range	~300 to 1200 °C	~300 to 1200 °C.
Temperature control	3 independently monitored and controlled regions	4 independently monitored and controlled regions.
Flux gradient	≤20%/cm in the plane of the sample	≤20%/cm in the plane of the sample.

To meet the mission of the Bold Decadal Vision for Commercial Fusion Energy,⁴ the design and demonstration of an FPP must occur simultaneously with the design and construction of the FPNS. Thus, the results from an FPNS may not directly impact the design and construction of the first FPP but will be critical to later iterations of FPP and eventual licensing of commercial fusion power plants.

Questions for Input

SC is issuing this Request for Information on potential technological approaches to meet the needs listed in Table 1, and on potential ways to accelerate the construction and delivery of an FPNS including public-private partnerships. Of special interest are approaches leading to a facility under a total capital cost of \$500M, even if meeting this objective would require upfront R&D. Responses should include discussions of the following topics (limit all responses to five pages):

- Technological approach to meeting the performance requirements in Table 1 (provide the parameters listed in Table 1 that would be achieved based on projections of your proposed approach);
- Technical maturity and risks of the concept;
- Research and development required (with rough cost/schedule and go/no-go milestones) to increase the technical readiness level and retire risks such that a final design can be completed;
- Estimated capital and operating costs;
- Potential for performing accelerated irradiation studies;

- Similarity or deviation of neutron irradiation spectrum relative to prototypic fusion device conditions (be quantitative);

- Temperature and irradiation flux stability/control;
- Ability to perform multiple-effect tests (e.g., irradiation in the presence of a flowing coolant or in the presence of complex applied stress fields); and
- Potential commercial partners, markets, and opportunities for public-private partnerships in funding and constructing FPNS.

Signing Authority

This document of the Department of Energy was signed on March 20, 2023, by Asmeret Asefaw Berhe, Director, Office of Science, pursuant to delegated authority from the Secretary of Energy. The document with the original signature and date is maintained by DOE. For administrative purposes only, and in compliance with requirements of the Office of the Federal Register, the undersigned DOE **Federal Register Liaison Officer** has been authorized to sign and submit the document in electronic format for publication, as an official document of the Department of Energy. This administrative process in no way alters the legal effect of this document upon publication in the **Federal Register**.

Signed in Washington, DC, on March 21, 2023.

Treena V. Garrett,
Federal Register Liaison Officer, U.S. Department of Energy.

[FR Doc. 2023-06176 Filed 3-24-23; 8:45 am]

BILLING CODE 6450-01-P

DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Project No. 4108-019]

City of St. Cloud; Notice of Application Tendered for Filing With the Commission and Establishing Procedural Schedule for Licensing and Deadline for Submission of Final Amendments

Take notice that the following hydroelectric application has been filed with the Commission and is available for public inspection.

- Type of Application:* New Major License.
- Project No.:* 4108-019.
- Date Filed:* December 15, 2022.
- Applicant:* City of St. Cloud.
- Name of Project:* St. Cloud Hydroelectric Project (St. Cloud Project or project).
- Location:* The project is located on the Mississippi River approximately 75 miles northwest of St. Paul, Minnesota in the City of St. Cloud, Stearns and Sherburne Counties, Minnesota. The project does not occupy any federal or Tribal lands.

³ <https://www.epri.com/research/products/00000003002023917>.

⁴ <https://www.whitehouse.gov/ostp/news-updates/2022/03/15/fact-sheet-developing-a-bold-vision-for-commercial-fusion-energy/>.

g. Filed Pursuant to: Federal Power Act, 16 U.S.C. 791(a)-825(r).

h. Applicant Contact: Ms. Tracy Hodel, City of St. Cloud—Public Services Director, 1201 7th Street South, St. Cloud, MN 56301; Telephone: (320) 255-7226 or tracy.hodel@cistcloud.mn.us.

i. FERC Contact: Nicholas Ettema at (312) 596-4447, or nicholas.ettema@ferc.gov.

j. The application is not ready for environmental analysis at this time.

k. Project Description: The project consists of: (1) an approximately 3.5-mile-long, 294-surface-acre reservoir with a storage capacity of 2,254 acre-feet at a normal pool elevation of 981.0 feet National Geodetic Vertical Datum of 1929; (2) a 420-foot-long earthen embankment that abuts the east side of the dam; (3) a 550-foot-long, 19.5-foot-high concrete gravity dam and main spillway topped with inflatable crest

gates; (4) a 50-foot-wide spillway containing two 20-foot-wide Tainter gates; (5) a 70-foot-wide, 122-foot-long reinforced concrete powerhouse containing two turbine-generator units with a total installed generating capacity of 8.64 megawatts and with an average annual generation of 51,500 megawatt-hours; (6) a 200-foot-long earthen embankment that abuts the west side of the dam; (7) an underground 180-foot-long, 5-kilovolt (kV) transmission line connecting the powerhouse to a step-up transformer; (8) a 5/34.5-kV step-up transformer; (9) an underground 900-foot-long, 34.5-kV transmission line connecting the step-up transformer to a non-project substation; and (10) appurtenant facilities. Average annual generation at the St. Cloud Project was 51,500 MW-hours from 2014 through 2021. City of St. Cloud is not proposing any new project facilities or changes to the operation of the project.

l. A copy of the application can be viewed on the Commission’s website at <http://www.ferc.gov>, using the “eLibrary” link. Enter the docket number, excluding the last three digits in the docket number field, to access the document (P-4108). For assistance, contact FERC at FERCOnlineSupport@ferc.gov, or call toll-free, (866) 208-3676 or (202) 502-8659 (TTY).

m. You may also register online at <http://www.ferc.gov/docs-filing/esubscription.asp> to be notified via email of new filings and issuances related to this or other pending projects. For assistance, contact FERC Online Support.

n. Procedural schedule: The application will be processed according to the following preliminary schedule. Revisions to the schedule will be made as appropriate.

Milestone	Target date
Issue Deficiency Letter (if necessary)	April 2023.
Request Additional Information (if necessary)	May 2023.
Notice of Acceptance/Notice of Ready for Environmental Analysis	October 2023.
Filing of recommendations, preliminary terms and conditions, and preliminary fishway prescriptions	December 2023.

o. Final amendments to the application must be filed with the Commission no later than 30 days from the issuance date of the notice of ready for environmental analysis.

Dated: March 15, 2023.

Kimberly D. Bose,
Secretary.

[FR Doc. 2023-06184 Filed 3-24-23; 8:45 am]

BILLING CODE 6717-01-P

ENVIRONMENTAL PROTECTION AGENCY

[EPA-HQ-OPPT-2023-0098; FRL-10582-01-OCSPP]

Certain New Chemicals or Significant New Uses; Statements of Findings for January 2023

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: The Toxic Substances Control Act (TSCA) requires EPA to publish in the **Federal Register** a statement of its findings after its review of certain TSCA submissions when EPA makes a finding that a new chemical substance or significant new use is not likely to present an unreasonable risk of injury to health or the environment. Such statements apply to premanufacture

notices (PMNs), microbial commercial activity notices (MCANs), and significant new use notices (SNUNs) submitted to EPA under TSCA. This document presents statements of findings made by EPA on such submissions during the period from January 1, 2023 to January 31, 2023.

ADDRESSES: The docket for this action, identified by docket identification (ID) number EPA-HQ-OPPT-2023-0098, is available online at <https://www.regulations.gov> or in-person at the Office of Pollution Prevention and Toxics Docket (OPPT Docket), Environmental Protection Agency Docket Center (EPA/DC), West William Jefferson Clinton Bldg., Rm. 3334, 1301 Constitution Ave. NW, Washington, DC. The Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Public Reading Room is (202) 566-1744, and the telephone number for the OPPT Docket is (202) 566-0280. For the latest status information on EPA/DC services and docket access, visit <https://www.epa.gov/dockets>.

FOR FURTHER INFORMATION CONTACT:

For technical information contact: Rebecca Edelstein, New Chemical Division (7405M), Office of Pollution Prevention and Toxics, Environmental Protection Agency, 1200 Pennsylvania

Ave. NW, Washington, DC 20460-0001; telephone number: (202) 564-1667 email address: edelstein.rebecca@epa.gov.

For general information contact: The TSCA-Hotline, ABVI-Goodwill, 422 South Clinton Ave., Rochester, NY 14620; telephone number: (202) 554-1404; email address: TSCA-Hotline@epa.gov.

SUPPLEMENTARY INFORMATION:

I. Executive Summary

A. Does this action apply to me?

This action provides information that is directed to the public in general.

B. What action is the Agency taking?

This document lists the statements of findings made by EPA after review of submissions under TSCA section 5(a) that certain new chemical substances or significant new uses are not likely to present an unreasonable risk of injury to health or the environment. This document presents statements of findings made by EPA during the reporting period.

C. What is the Agency’s authority for taking this action?

TSCA section 5(a)(3) requires EPA to review a submission under TSCA section 5(a) and make one of several specific findings pertaining to whether