



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

January 23, 2026

Mr. Donald Statile
Director of Licensing, Safety,
and Quality Assurance
REPLOY Power, Inc.
7301 Seneca Falls Loop
Austin, Texas 78739

**SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION RESPONSE TO REPLOY
POWER, INC.'S REQUEST TO REVIEW REPLOY POWER'S WHITE PAPER
ON "ENVIRONMENTAL IMPACT REPORT APPROACH FOR SPS
[SUBMERGED POWER SYSTEM] UNITS" (EPID: L-2025-LRO-0066)**

Dear Mr. Statile:

By letter dated October 6, 2025 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML25280A238), REPLOY Power, Inc. (REPLOY) submitted to the U.S. Nuclear Regulatory Commission (NRC) a white paper titled "Environmental Impact Report Approach for SPS [Submerged Power System] Units," Revision 0 (ML25280A239).

The white paper outlines REPLOY's strategy for evaluating the environmental impacts of its SPS units, which consist of advanced nuclear reactors deployed in maritime environments.

REPLOY proposes a generic Environmental Report methodology that can be applied across various maritime deployments, aiming to streamline regulatory processes, reduce repetitive site-specific environmental assessments, and accelerate deployment.

The NRC staff has completed its assessment of the white paper and identified areas where additional details may be necessary, as outlined in the enclosure to this letter.

If you have questions related to this matter, please contact project manager Alina Schiller at (301) 415-8177 or via email at Alina.Schiller@nrc.gov.

Sincerely,



Signed by Jardaneh, Mahmoud
on 01/23/26

Mahmoud Jardaneh, Chief
New Reactor Licensing Branch
Division of New and Renewed Licenses
Office of Nuclear Reactor Regulation

Project No.: 99902132

Enclosure:
As stated

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DATED: JANUARY 23, 2026

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OFFICE	NRR/DNRL/NRLB/PM	NMSS/REFS/EPMB3	NRR/DNRL/NRLB/BC
NAME	ASchiller	DBarnhurst	MJardaneh
DATE	01/06/2026	01/16/2026	1/23/26

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**NRC Staff Feedback on REPLOY Power, Inc.'s White Paper on
“Environmental Impact Report Approach for SPS [Submerged Power System] Units”**

1. This white paper proposes, at a high level, a maritime Generic Environmental Impact Statement (GEIS) process with bounding parameters that REPLOY would develop. The white paper reflects a process similar to one that the NRC is moving towards (New Reactor GEIS and Nth-of-a-Kind microreactor licensing process).
2. There are no specifics on postulated accidents or any other impacts. Those impacts can be quite different from a land-based reactor.
3. The idea of ocean/location specific appendices to the GEIS is a good one and would allow for a more streamlined-focused review based on location.
4. NRC is currently not assessing Environmental Justice impacts.
5. REPLOY should ensure that the project is in accordance with all environmental U.S. laws and regulations as well as those that apply in international waters.

Enclosure