

October 6, 2025

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U.S. Nuclear Regulatory Commission

ATTN: Document Control Desk

Washington, DC 20555-0001

Subject: REPLOY Licensing White Paper: Submersible Power System Prototype Unit Introduction

NRC Project/Docket Number: 99902132

Enclosed is the REPLOY Power Licensing White Paper: "Submersible Power System Prototype Unit Introduction," (RP-SPS-LWP-25-03). This white paper introduces the REPLOY Power concept for a prototype reactor. The paper presents the reasoning for this approach, as well as the differences between the prototype reactor and the follow-on commercial reactor. It also contains the licensing strategy and approach for the prototype reactor.

This document contains information that is proprietary and confidential to REPLOY Power. As such we request that enclosure 3 of this submittal be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390, as directed by the enclosed Affidavit.

REPLOY requests the NRC Project Manager provide an estimate of the total number of hours and fees required for review of this submission concurrently with the start of the review.

Sincerely,

Don Statile

Director of Licensing, Safety, and Quality Assurance

REPLOY Power, Inc.

Donald J. Statils

cc: Alina Schiller (NRC)

Stacy Joseph (NRC)

Mahmoud (MJ) Jardaneh (NRC)

## Enclosures:

- 1. RP-SPS-LWP-25-03 Submersible Power System Prototype Unit Introduction (public version)
- 2. 10 CFR 2.390 Affidavit
- 3. RP-SPS-LWP-25-03 Submersible Power System Prototype Unit Introduction (proprietary version)