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September 25, 2024

U.S. Nuclear Regulatory Commission

ATTN: Document Control Desk

Washington, DC 20555-0001

Subject: Submission of Initial Regulatory Engagement Plan (REP)

REPLAY Power submitted a letter of intent in July 2024 to engage in pre-application activities to the U.S. NRC. REPLAY Power hereby submits our initial regulatory engagement plan. The enclosed regulatory engagement plan includes information on the principal design of the REPLAY Submerged Power Station (SPS) as well as the regulatory strategy currently considered for successful deployment. The plan includes key design and licensing topics which REPLAY has identified as requiring effective pre-application interaction with the U.S. NRC to mitigate licensing risks. Our current pre-application plan indicates the submittal of phase 1 whitepapers in Q1 2025.

REPLAY Power is developing the Submerged Power Station (SPS), a revolutionary nuclear deployment model which will yield significant commercial and safety benefits for light water reactor (LWR) deployments both in the USA and globally. The SPS has generated very strong market interest, especially from coastal load centers and corporations, such as major industrial firms in Texas. There remain key areas of technological innovation and policy development that must be addressed for the full realization of the REPLAY model.

The REPLAY Power Submersible Power Station Regulatory Engagement Plan, Revision 0 contains information that is proprietary and confidential to REPLAY Power. As such we request that this submittal be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390, as directed by the enclosed Affidavit.

Sincerely,

*mark rosen*

Mark Rosen

Regulatory Advisor and General Counsel

REPLAY Power, Inc.

cc: Michelle Hayes (NRC)

Brian Smith (NRC)

Samuel Lee (NRC)

Enclosures:

1. 10 CFR 2.390 Affidavit of Mark Rosen
2. REPLOY Power Submersible Power Station Regulatory Engagement Plan, Revision 0