



23-June-2025

Project Number: 99902080

US Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

SUBJECT: REGULATORY ENGAGEMENT PLAN FOR ATOMIC ALCHEMY'S NON-POWER PRODUCTION OR UTILIZATION FACILITY

ENCLOSURES: 1) AFF-2025-001, Affidavit Pursuant to 10 CFR 2.390
2) AAI-EXT-010, Rev 0, Atomic Alchemy Inc. Regulatory Engagement Plan: Q3 2025 Update (Proprietary)

The purpose of this letter is Atomic Alchemy's voluntarily submittal of its revised Regulatory Engagement Plan (REP) for its non-power production and utilization facility (NPUF)—covering the preapplication interactions with the NRC in support of the preparation of Atomic Alchemy's NPUF construction permit application and operating license application, under Title 10 *Code of Federal Regulations* (CFR) Part 50.

Atomic Alchemy's REP contains commercially sensitive, proprietary information and, as such, we are requesting that this information be withheld from public disclosure in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Request for Withholding," specifically provision 4(a). Since commercially proprietary information constitutes much of the information herein, a public version is not being submitted. Accordingly, Enclosure 2 is the proprietary version of Atomic Alchemy's REP which contains non-redacted sensitive information. This proprietary information is appropriately marked and an affidavit documenting the basis for this request is provided in Enclosure 1.

There are no commitments made in this submittal.

If there are any questions or a need for additional information, please contact via email.

Sincerely,

Thomas Eiden
CEO, Atomic Alchemy Inc.

Cc:

Nuclear Regulatory Commission:

Linh Tran, U.S. NRC

Non-Power Production and Utilization Facility Licensing Branch (UNPL) Division of
Advanced Reactors and Non-Power Production and Utilization Facilities (DANU) Office of
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Bradley Stamler, Project Manager

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