



August 29, 2019

Mr. Ho K. Nieh
Director, Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

SUBJECT: Notice of Intent to Submit an Application to License and Operate a
Non-Power Production and Utilization Facility

ATTACHMENTS: License Approach and Pre-Application Schedule for Atomic
Alchemy's Non-Power Production and Utilization Facility

Dear Mr. Nieh,

This letter serves as notification of the intent of Atomic Alchemy, Inc. (Atomic Alchemy) to apply for a construction permit and operating license for a non-power production and utilization facility (NPUF), under the Atomic Energy Act of 1954, as amended (AEA) Section 103, pursuant to 10 CFR 50.22.

The NPUF license application will include four non-power, pool type reactors (utilization facility) to irradiate targets of various materials, and the associated chemical extraction and purification facility (production facility) to produce radioisotopes of commercial interest.

Atomic Alchemy intends to submit the construction permit application in two parts pursuant to 10 CFR 2.101(a)(5). Part one is expected to be submitted as early as May 2020, with pre-licensing discussion to begin in October 2019. This notice is provided to facilitate your resource and budget planning. As part of the pre-licensing discussions and process, Atomic Alchemy will provide a Regulatory Engagement Plan (REP). The REP will be drafted and provided to the U.S. Nuclear Regulatory Commission (NRC) staff for review by October 2019, and Atomic Alchemy will be looking for agreement from the staff, on licensing approach and schedule, by December 2019.

The plans and schedule for the Atomic Alchemy NPUF, detailed in the enclosed attachment, have not yet been publicly announced; therefore, Atomic Alchemy is requesting that this information and the accompanying affidavit be withheld from public disclosure. The affidavit sets forth the basis on which the information may be withheld under conditions of 10 CFR 2.390.

Thank you for your attention to this Letter of Intent. If you have any questions, please contact me at regulatory@atomicalchemy.us.

Sincerely,

Thomas Eiden
CEO, Atomic Alchemy, Inc.