



22-June-2021

Project Number: 99902080

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

REFERENCES: 1) Atomic Alchemy Inc. Letter AAL-2020-003, "Atomic Alchemy Versatile Isotope Production Reactor Quality Assurance Program Description" dated October 16, 2020.
 2) Letter from William Kennedy (USNRC) to Thomas Eiden (Atomic Alchemy Inc.), "Requests for Additional Information Related to the Quality Assurance Program Description Review for the Construction License Application for the Atomic Alchemy Inc. Non-Power Production Facility" dated April 26, 2021.

SUBJECT: ATOMIC ALCHEMY'S RESPONSE TO NRC QUESTIONS RELATED TO THE QUALITY ASSURANCE PROGRAM DESCRIPTION FOR ATOMIC ALCHEMY'S NON-POWER PRODUCTION AND UTILIZATION FACILITY

ENCLOSURES: 1) Atomic Alchemy's response to RAIs 2 through 8.
 2) Atomic Alchemy's response to RAI 1.

In Reference 1, by letter dated October 16, 2020, Atomic Alchemy Inc. submitted its Quality Assurance Program Description (QAPD) as a Topical Report. In Reference 2, by letter dated April 26, 2021, the NRC requested additional information to support the review of the Atomic Alchemy Inc. submission. The purpose of this letter is to provide a response to the NRC's requested information.

Atomic Alchemy Inc. provides its response to NRC RAI 1 in Enclosure 2, and the remaining NRC RAIs are addressed in Enclosure 1.

Information contained in the enclosures of this docketed response and accepted by the NRC as satisfactorily answering their requested information may be incorporated into a future revision of the Atomic Alchemy Inc. Quality Assurance Program Description, as necessary.

This response does not include any Atomic Alchemy Inc. proprietary information.

This letter contains one new commitment and no revisions to existing commitments. See below.

If there are any questions or a need for additional information, please contact Mr. Michael Grochowski, our Nuclear Regulatory Affairs & Compliance Manager at regulatory@atomicalchemy.us.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on June 22, 2021.

Sincerely,

Thomas Eiden
CEO, Atomic Alchemy Inc.

TE/mjg

CC:

Nuclear Regulatory Commission:

Michael Balazik, Project Manager

Non-Power Production and Utilization Facilities Licensing Branch

Division of Advanced Reactors and Non-Power Production and Utilization Facilities (NPUFs)

Office of Nuclear Reactor Regulation

Greg Casto, Branch Chief

Non-Power Production and Utilization Facilities Licensing Branch

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Office of Nuclear Reactor Regulation

Atomic Alchemy Inc.

Michael Grochowski, Nuclear Regulatory Affairs & Compliance Manager

Regulatory Commitments Contained in this Letter		
This communication contains the following new commitment(s) which will be completed or incorporated into the Atomic Alchemy licensing basis as noted:		
Atomic Alchemy Commitment Number	Commitment	Due Date
AA0-RC-0026	Atomic Alchemy will incorporate the NRC-accepted changes, identified in its responses to the NRC's Request for Additional Information, into the QAPD.	Atomic Alchemy will submit the revised QAPD to the NRC for review prior to its use, and no later than December 31, 2022.