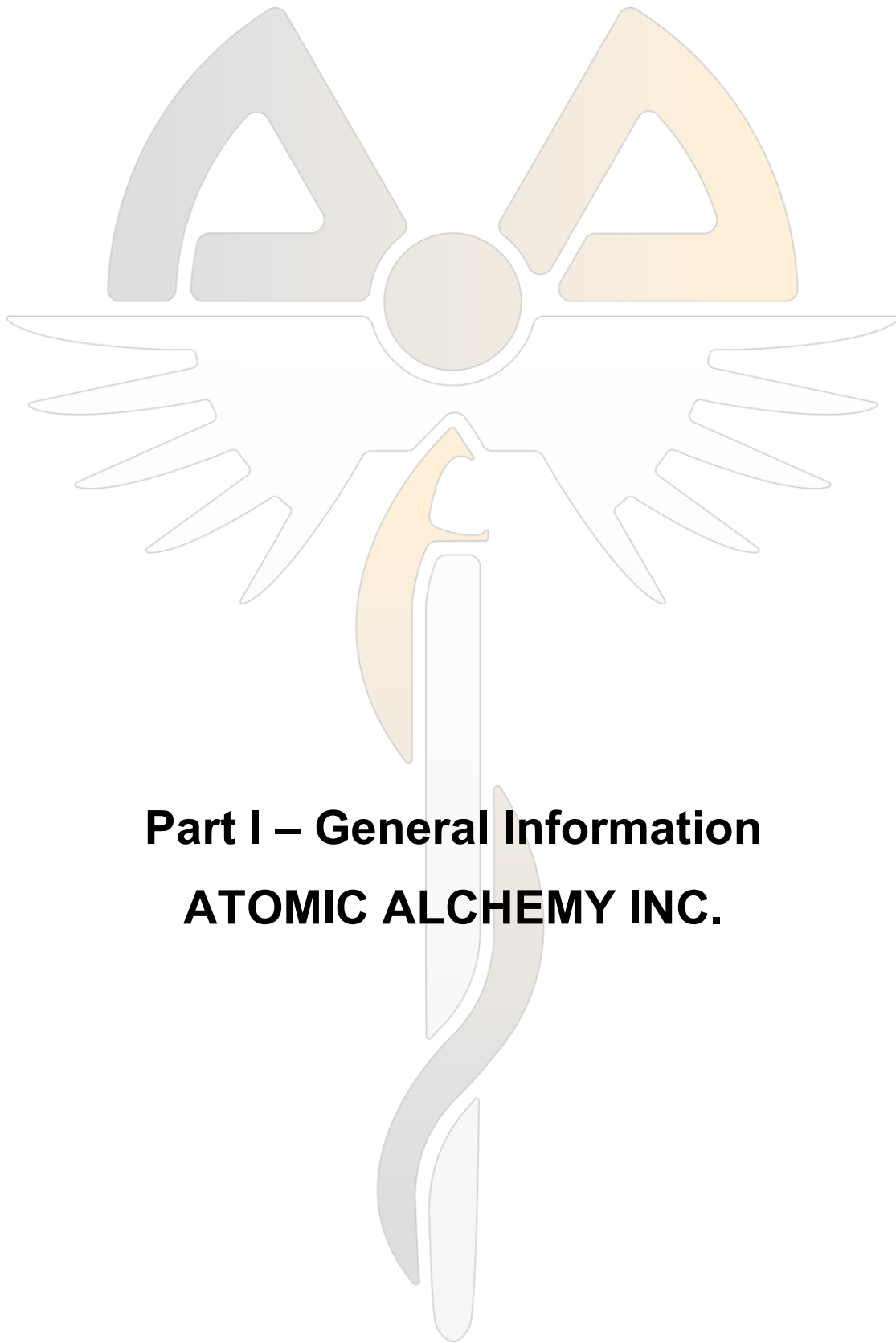




Part I – General Information

ATOMIC ALCHEMY INC.

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1 INTRODUCTION

This chapter of the Construction Permit application provides general information pursuant Title 10 *Code of Federal Regulations* (CFR) Part 50.33, “Contents of applications; general information.”

1.1 GENERAL INFORMATION

The following information is provided to fulfill the requirements of 10 CFR 50.33.

1.1.1 Name and Address of Applicant per 10 CFR 50.33(a) and (b)

The applicant is Atomic Alchemy Operators LLC. (Atomic Alchemy Operators), on behalf of VIPR Idaho LLC. (VIPR Idaho), both being Delaware limited liability companies and ultimate subsidiaries of Oklo Inc. (Oklo). VIPR Idaho is a subsidiary of AAI, a wholly owned subsidiary of Oklo. Atomic Alchemy Operators’ registered place of business is located at 1209 Orange Street, Wilmington, DE, 19801; VIPR Idaho’s registered place of business is located at 850 New Burton Road, Suite 201, Dover, DE 19904; AAI’s principal place of business is located at 3875 American Way, Idaho Falls, Idaho 83402; and Oklo’s principal place of business is located at 3190 Coronado Dr., Santa Clara, CA 95054.

Atomic Alchemy is the controlling and beneficial owner of VIPR Idaho and is under common ownership with Atomic Alchemy Operators and is delegating all licensee responsibilities to these two entities, which are intended to be the only two entities listed on the license for the Meitner-1 facility. Accordingly, Atomic Alchemy Operators requests that the U.S. Nuclear Regulatory Commission (NRC) issue the construction permit (CP) with VIPR Idaho as the owner and constructor of the Meitner-1 at Idaho National Laboratory, licensed to “construct and possess but not operate” the facility. Upon issuance of the operating license, Atomic Alchemy Operators requests that NRC issue the license with Atomic Alchemy Operators as the operator, licensed to “possess, manage, use, operate, and maintain” the facility. Both entities shall be licensed to “possess” the facility for the life of the plant.

1.1.2 Description of Business or Occupation of Applicant per 10 CFR 50.33(c)

AAI was founded in 2018 to become the world’s supplier of choice for high-value isotopes. The licensees, Atomic Alchemy Operators and VIPR Idaho were incorporated in 2025 as special purpose entities to serve as the vehicle for the possession, construction and safe operation of the Meitner-1 facility, which can house four Versatile Isotope Production Reactors (VIPRs). Meitner-1 is a non-power utilization facility that uses commercially available systems in advanced configurations for isotope production. Since its inception, AAI has focused its efforts on designing, constructing, and operating the Meitner-1 non-power reactor facility for the purpose of irradiating targets to produce beneficial isotopes for advanced medical, research, industrial, defense and space applications.

Currently, there exists a chronic shortage of radioisotopes due to a lack of manufacturing capacity—specifically the nuclear reactors required to produce the material. Former FDA Commissioner Scott Gottlieb framed the shortage as a national security issue in February 2018, as the United States nearly exclusively imports its medical radioisotopes from Europe. Similarly, the Department of Energy recently stated that the United States purchases 31 stable and radioactive isotopes from Russia.



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Meitner-1 will be built in Idaho within the Idaho National Laboratory complex and will contain the world's first commercial radioisotope production reactors since the decommissioning of the Cintichem facility in the early 1990s. The facility will be capable of producing over 40 different high value radioisotopes. Its reactor is being designed to maximize the use of proven, commercial, off-the-shelf reactor and hot cell technologies. This approach has led to the development of the VIPR, a 15 MWth pool-type, non-power reactor using traditional LEU fuel. The VIPR is walk-away safe with many inherent and passive safety features.

1.1.3 Ownership Information per 10 CFR 50.33(d)

Atomic Alchemy Operators and VIPR Idaho are both ultimately owned by Oklo Inc. (Oklo), which is presided by Oklo's CEO and U.S. Citizen Jacob DeWitte, and whose principal place of business is located at 3190 Coronado Dr., Santa Clara, California 95054. Oklo is a fast-fission power reactor developer who became public in May 2024 and has a diversified portfolio focused on commercializing advanced fission power reactors, isotope production, and fuel recycling and fabrication. AAI's CEO is Thomas Eiden, who is also a U.S. Citizen, and whose principal place of business is located at 3875 American Way, Idaho Falls, Idaho 83402. AAI, which owns VIPR Idaho, underwent a merger and acquisition with Oklo, in February 2025. Neither AAI or Oklo are owned, controlled, or dominated by an alien, foreign corporation, or foreign government.

1.1.4 Class of License and Duration of License per 10 CFR 50.33(e)

The construction permit is intended to be converted into a Class 103 operating license and shall cover a period of 40 years from the date of issuance.

1.1.5 Financial Qualifications per 10 CFR 50.33(f)

An estimate of the total construction cost of the Meitner-1 facility and related fuel cycle costs and the source of funds to cover this cost are presented in the Preliminary Safety Analysis Report (PSAR) Chapter 15, "Financial Qualifications." An estimation of the cost for five years of operation will be provided in the Final Safety Analysis Report.

1.1.6 Emergency Planning Zone per 10 CFR 50.33(g)

The emergency planning zone is addressed in the PSAR Chapter 13, "Accident Analyses," and the ingestion exposure pathway is addressed in the PSAR Chapter 11, "Radiation Protection Programs and Waste Management."

1.1.7 Construction Earliest and Latest Date for Construction Completion per 10 CFR 50.33(h)

Construction completion for the Meitner-1 facility is expected 24 months after receipt of the CP at the earliest, and 120 months after receipt of the CP at the latest.