

July 30, 2013

POTENTIAL APPLICANT: Eden Radioisotopes, LLC

SUBJECT: SUMMARY OF JUNE 24, 2013, MEETING WITH EDEN  
RADIOISOTOPES, LLC REGARDING MEDICAL ISOTOPE  
PRODUCTION (TAC NO. ME2287)

On June 24, 2013, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Eden Radioisotopes, LLC (Eden) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of this meeting was for Eden to introduce its proposed medical radioisotope production project. A portion of this meeting was closed to the public to discuss proprietary information related to the specifics of design and operation of Eden's proposed medical radioisotope production facility. A list of attendees is provided as an enclosure.

Eden opened the meeting with a discussion of its history and the origin of its proposed technology at Sandia National Laboratories. This was followed by a brief introduction by NRC staff emphasizing that the NRC will provide an effective and efficient review of an application submitted by Eden. However, the success of the review will be highly dependent on the quality of the application submitted. While reviewing the application, NRC staff committed to only developing thoughtful requests for additional information. NRC staff also encouraged Eden to begin engaging local stakeholders potentially impacted by its proposed project.

Following these introductory remarks, Eden began its presentation, beginning with a description of the status of molybdenum-99 (Mo-99) in the world. Eden then described its approach to Mo-99 production: a water-moderated and cooled all-target reactor. The proposed reactor design will operate utilizing low-enriched uranium-oxide fuel and neutral or negative reactivity feedback. The presentation then shifted to a high-level discussion of the fuel pellet, fuel pin, target assembly, and facility designs. The open portion of the meeting concluded with a dialogue on licensing and reactor and fuel qualifications. Further details on this discussion are included in the presentation slides, which are located in the NRC's Agencywide Documents Access and Management System (ADAMS), Accession No. ML13144A084.

Eden Radioisotopes, LLC

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During the portion of the meeting closed to the public to discuss proprietary information, Eden presented material on driver fuel.

No members of the public participated in this meeting.

Please direct any inquiries to Steven Lynch at 301-415-1524 or [Steven.Lynch@nrc.gov](mailto:Steven.Lynch@nrc.gov).

***/ RA Xiaosong Yin Acting for /***

Steven Lynch, Project Manager  
Research and Test Reactors Licensing Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

Project No. PROJ0802

Enclosure:  
List of Attendees

cc w/encl: Bennett J. Lee  
Chief Executive Officer  
Eden Radioisotopes, LLC  
1508 Dartmouth Ave NE  
Albuquerque, NM 87106

Eden Radioisotopes, LLC

- 2 -

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Albuquerque, NM 87106

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| NAME   | SLynch      | PBlechman   | GLappert    | AAdams<br>(LTran for) | SLynch<br>(XYin for) |
| DATE   | 07/24/2013  | 7/29/2013   | 7/29/2013   | 7/30/2013             | 7/30/2013            |

OFFICIAL RECORD COPY

LIST OF ATTENDEES

JUNE 24, 2013, MEETING WITH EDEN RADIOISOTOPES, LLC REGARDING  
MEDICAL ISOTOPE PRODUCTION

| <u>Name</u>       | <u>Organization</u>                |
|-------------------|------------------------------------|
| Bennett Lee       | Eden Radioisotopes, LLC            |
| Milton Vernon     | Eden Radioisotopes, LLC            |
| Steve Lynch       | U.S. Nuclear Regulatory Commission |
| Linh Tran         | U.S. Nuclear Regulatory Commission |
| Alexander Adams   | U.S. Nuclear Regulatory Commission |
| Mary Adams        | U.S. Nuclear Regulatory Commission |
| Lawrence Kokajko  | U.S. Nuclear Regulatory Commission |
| Xiaosong Yin      | U.S. Nuclear Regulatory Commission |
| Emily Larson      | U.S. Nuclear Regulatory Commission |
| Marcus Voth       | U.S. Nuclear Regulatory Commission |
| Mitzi Young       | U.S. Nuclear Regulatory Commission |
| Sarah Price       | U.S. Nuclear Regulatory Commission |
| Geoff Wertz       | U.S. Nuclear Regulatory Commission |
| Cassandra Frazier | U.S. Nuclear Regulatory Commission |
| Alex Sapountzis   | U.S. Nuclear Regulatory Commission |
| Mathew Panicker   | U.S. Nuclear Regulatory Commission |
| Maitri Banerjee   | U.S. Nuclear Regulatory Commission |
| Gina Davis        | U.S. Nuclear Regulatory Commission |
| Maggie Watford    | U.S. Nuclear Regulatory Commission |
| Michelle Moser    | U.S. Nuclear Regulatory Commission |
| Maria Guardiola   | U.S. Nuclear Regulatory Commission |
| Bernie White      | U.S. Nuclear Regulatory Commission |
| Cathy Kanatas     | U.S. Nuclear Regulatory Commission |
| Donna-Beth Howe   | U.S. Nuclear Regulatory Commission |
| Mark Blumberg     | U.S. Nuclear Regulatory Commission |
| Deborah Seymour   | U.S. Nuclear Regulatory Commission |
| Kimberly Gambone  | U.S. Nuclear Regulatory Commission |
| Dan Barss         | U.S. Nuclear Regulatory Commission |
| Jim Lynch         | U.S. Nuclear Regulatory Commission |

Enclosure