

April 29, 2015

APPLICANT: Coqui Radio Pharmaceuticals, Corp.

SUBJECT: SUMMARY OF MARCH 26, 2015, MEETING WITH COQUÍ
RADIOPHARMACEUTICALS, CORP. TO DISCUSS THE POTENTIAL
APPLICATION FOR A MEDICAL RADIOISOTOPE PRODUCTION
FACILITY

On March 26, 2015, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Coquí Radio Pharmaceuticals, Corp. (Coquí) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was for Coquí to provide NRC staff with more information on certain topics that were identified as beneficial to the NRC staff as discussed during the previous public meeting held on October 8, 2014, related to the design and operation of the proposed Medical Isotope Production Facility (MIPF). Specifically, Coquí presented a project update and site overview of its proposed facility. A portion of the meeting was closed to the public to discuss proprietary information related to Coquí's design and operation of their MIPF. A list of the attendees is enclosed.

The NRC staff opened the meeting by providing Coquí with a few remarks about the importance of continued engagement and open communication with the NRC as the construction permit application is developed. These qualities are important to developing a high-quality application that the NRC staff will be able to review in a timely and efficient manner with a proper level of resources. NRC staff also stressed the importance of responding to any requests for additional information in a timely manner.

During the open public session, Coquí presented an overview of the MIPF project, including the details on site, design process, environmental report status, quality assurance, and security programs (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15118A937). Coquí is working with several other companies, including INVAP as the designer and general contractor; Hogan Lovells as the nuclear regulatory and environmental attorneys; Gresham, Smith and Partners (GS&P) as consultants for environmental report preparation; and ENERCON as consultants for preparation of the construction permit application; and MPR as consultants for engineering and regulatory interface. Coquí is planning to construct and operate the MIPF in Alachua, Florida, near the University of Florida. In January of 2015, Coqui acquired a 25-acre parcel of land on which the facility will be built. The MIPF will consist of two pool-type material testing reactors each operating at power levels below 10 megawatts and will use low enriched uranium fuel and targets to produce molybdenum-99 and iodine-131. The planned production capacity for the MIPF is 7,000 six-day curies per week. Aside from the two reactors, the Coqui facility will also have a radioisotope processing facility, and a waste conditioning facility, as well as support services and administrative offices. The facility will be designed and constructed by INVAP. Coquí is currently preparing a construction permit application for submission in late calendar year 2015.

During the portion of the meeting closed to the public to discuss proprietary information, Coquí first presented material on the technical aspects of its proposed facility. This presentation focused on core, fuel assembly, and target design information. Additionally, Coquí discussed thermal hydraulic data associated with the proposed core design. Coquí next presented simplified diagrams of core and pool cooling systems along with information regarding certain parameters and major components within these systems.

In a second presentation during the closed session, Coquí presented information on follow-up topics from the previous public meeting. The discussion began with Coquí presenting information on established margins in determining the critical heat flux ratio. Coquí then compared power densities of their proposed facility to a similar design in the international community that is currently operating. The discussion continued with Coquí examining LOCA initiators related to their proposed design. Finally, Coquí discussed the maximum hypothetical accident scenario selection process and assumptions associated with the proposed reactor design.

At the end of the meeting, NRC staff and Coquí identified several topics that would be beneficial to discuss at future public meetings which includes licensing processes, environmental site review, and security aspects.

Please direct any inquiries to Michael Balazik at 301-415-2856 or via e-mail at Michael.Balazik@nrc.gov.

Sincerely,

/RA/

Michael F. Balazik, Project Manager
Research and Test Reactors Licensing Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 0786

Enclosure:
List of Attendees

cc w/encl.: See next page

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| OFFICE | DPR/PRLB/PM | DPR/PRLB/BC | DPR/PRLB/PM |
| NAME | MBalazik | AAdams | MBalazik |
| DATE | 4/28/2015 | 4/29/2015 | 4/29/2015 |

Coqui Radio Pharmaceuticals, Corp.

Project No. 0786

cc:

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LIST OF ATTENDEES

March 26, 2015 MEETING WITH COQUI RADIO PHARMACEUTICALS, CORP.

| <u>Name</u> | <u>Organization</u> |
|----------------------|--|
| Carmen Bigles | Coqui Radiopharmaceuticals Corp. |
| Luis Reyes | Coqui Radiopharmaceuticals Corp. |
| Ian Turner | Coqui Radiopharmaceuticals Corp. |
| Amy Roma | Hogan Lovells |
| Jorge Weigandt | INVAP |
| Veronica Garea | INVAP |
| Vanessa Newton | Gresham, Smith, & Partners (GS&P) |
| Jeff Bartelme | SHINE Medical Technologies, Inc. |
| Caroline Schlaseman | MPR Associates, Inc. |
| Storm Kauffman | MPR Associates, Inc. |
| Brian Scrivens | MPR Associates, Inc. |
| Mirela Gavrilas | U.S. Nuclear Regulatory Commission (NRC) |
| Mary Adams | NRC |
| Steve Lynch | NRC |
| Linh Tran | NRC |
| Larry Harris | NRC |
| Carl Weber | NRC |
| Donna-Beth Howe | NRC |
| Lisa London | NRC |
| Donna-Beth Howe | NRC |
| Deborah Seymour | NRC |
| William Gott | NRC |
| Alexander Adams, Jr. | NRC |
| Eben Allen | NRC |
| Michael Balazik | NRC |
| Victoria Huckabay | NRC |
| Marcia Carpentier | NRC |
| Mitzi Young | NRC |
| Russell Chazell | NRC |
| William Schuster | NRC |
| Steven Herrin | Department of Homeland Security (DHS) |
| Richard Alt | DHS |

Enclosure