

March 30, 2011

MEMORANDUM TO: Paul Michalak, Branch Chief
Materials Decommissioning Branch
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs

FROM: Tom McLaughlin, Project Manager /**RA**/
Materials Decommissioning Branch
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs

SUBJECT: MEETING SUMMARY

Background:

ExxonMobil requested an open meeting with the U.S. Nuclear Regulatory Commission (NRC) staff for a pre-submittal discussion of the content of their technical report in support of their proposal to amend Source Material License SUA-1139. As part of this license amendment for the Highland Uranium Mill Site, ExxonMobil is proposing new alternate concentration limits (ACL), Points of Exposure, Points of Compliance, and an expansion of the NRC long-term care boundary to include the Pit Lake to the west and the Boner Brothers property to the southeast.

Purpose of Meeting:

To present a pre-submittal discussion of technical findings that support a license amendment for an ACL and a proposed expansion of the NRC long-term surveillance program boundary.

Discussion:

On Tuesday, March 22, 2011, at the NRC Headquarters in Rockville, MD, ExxonMobil and its contractors presented an overview of proposed licensing action, the statutory and regulatory background, and a technical presentation. The attendees list (Enclosure 1) is enclosed. The presentation was in the form of 50 slides (Enclosure 2). ExxonMobil proposed licensing action would result in the extension of its long-term care boundary to be extended to include the Pit Lake area to the west and the Boner Brothers property to the southeast. ExxonMobil will submit a new ACL request along with proposed new Points of Compliance, Points of Exposure wells and an expanded long-term care boundary. ExxonMobil stated that earlier studies did not take

into account the seepage of byproduct material from the mill tailings pile towards the southeast and west. The meeting notice and meeting agenda can be found at ML110340399.

Action Items:

1. Tom McLaughlin will email, to the participants of the meeting, PDF files of studies which show that the Uranium Activity Ratio is influenced by concentration, lithology, mineralogy, weathering rates, ground water residence time, redox conditions, and the difference in the chemical characteristics of uranium and its daughter products.
2. Tom McLaughlin will email, to the participants of the meeting, a list and short summary of the studies and correspondence concerning the seepage of contaminants from the mill tailings area and the history of the Pit Lake.

Docket No.: 040-08102
License No.: SUA-1139

Enclosure:

1. Meeting Attendees
2. Presentation slides

cc: ExxonMobil Highlands Distribution List

Action Items:

1. Tom McLaughlin will email, to the participants of the meeting, PDF files of studies which show that the Uranium Activity Ratio is influenced by concentration, lithology, mineralogy, weathering rates, ground water residence time, redox conditions, and the difference in the chemical characteristics of uranium and its daughter products.

3. Tom McLaughlin will email, to the participants of the meeting, a list and short summary of the studies and correspondence concerning the seepage of contaminants from the mill tailings area and the history of the Pit Lake.

Docket No.: 040-08102

License No.: SUA-1139

Enclosure:

1. Meeting Attendees
2. Presentation slides

cc: ExxonMobil Highlands Distribution List

DISTRIBUTION:

DWMEP r/f

ML110830130

OFFICE	MDB/PM	MDB/LA	MDB/BC	MDB/PM
NAME	TMcLaughlin	Sachten	PMichalak	TMcLaughlin
DATE	3/25/2011	3/28/2011	329/2011	3/30/2011

OFFICIAL RECORD COPY

ExxonMobil Highlands Distribution List

Mahesh Vidyasagar, Project Manager
ExxonMobil Environmental Services
12450 Greenspoint Drive
GSC-GP6-1004
Houston Texas 77060

Anna Krzyszowska-Waitkus, Ph.D.
Wyoming Department of Environmental
Quality Land Quality Division
122 W.25th Street
Herschler Building 3-W
Cheyenne, WY 82002, USA

Steve Ingle
Wyoming Department of Environmental
Quality Land Quality Division
122 W.25th Street
Herschler Building 3-W
Cheyenne, WY 82002, USA

Rob Boner
Boner Bros. Partnership
P.O. Box 872
Douglas, WY 82633

MEETING ATTENDEES

Topic: Discussion of status of ExxonMobil Highlands reclamation project

Date: March 22, 2011

NAME	AFFILIATION	PHONE NUMBER
Thomas McLaughlin	NRC/FSME/DWMEP/MDB	301-415-5869
Paul Michalak	NRC/FSME/DWMEP/MDB	301-415-7612
Lifeng Guo	NRC/FSME/DWMEP/MDB	301-415-7962
Tracey Stokes	NRC/OGC	301-415-1064
Mahesh Vidyasagar	ExxonMobil	281-654-8458
Mark Zuscchek	ExxonMobil	703-846-2793
Robert Jackmore	ExxonMobil	703-846-6032
Rebecca Bilodeau	Advanced Environmental Services	970-443-2119
Bruce Wielinga	AMEC	303-630-0787
Chris Pugsley	Thompson/Pugsley	202-496-0780
Steve Ingle	WDEQ	(call in to conference)
Lowell Spackman	WDEQ	(call in to conference)
Chandrika Manepally	CNWRA Southwest Research Institute	(call in to conference)
Robert Lenhard	CNWRA Southwest Research Institute	(call in to conference)
Olufemi "Femi" Osidele	CNWRA Southwest Research Institute	(call in to conference)
Paul Bertetti	CNWRA Southwest Research Institute	(call in to conference)
Rob Boner	Boner Brothers	(call in to conference)
Steve Stresky	AquaTerra	(call in to conference)