UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

September 3, 2009

TO: Docket File 040-09079

THROUGH: Jack E. Whitten, Chief ***/RA/***
Nuclear Materials Safety Branch B

FROM: Robert Evans, CHP, PE, Senior Health Physicist ***/RA/***
Nuclear Materials Safety Branch B

SUBJECT: ANTELOPE AND JAB PROJECT SITE VISIT

On August 6, 2009, NRC Staff conducted a site visit of the Antelope and JAB Project, a uranium in-situ leach extraction facility being developed by Energy Metals Corporation in Sweetwater County, Wyoming. Attached to this Memorandum is a trip report for this site visit. No regulatory issues or safety concerns were identified during the site visit.

Docket Number: 040-09079
License Number: None

Enclosure: NRC Trip Report

bcc w/enclosure:
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ADAMS	■Yes ☐ No	■SUNSI Rev Complete	Reviewer Initials:	RJE
Publicly Avail.	■Yes ☐ No	Sensitive Value:		

RIV:DNMS:NMSB-B	C:NMSB-B		
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09/01/09	09/02/09		

OFFICIAL RECORD COPY T=Telephone E=E-mail F=Fax

NRC Trip Report

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

Docket No.:	040-09079
License No.:	None
Report No.:	None
Applicant:	Energy Metals Corporation dba Uranium One Americas
Facility:	Antelope and JAB Uranium Project
Location:	Sweetwater County, Wyoming
Date:	August 6, 2009
Inspectors:	Robert Evans, PE, CHP, Senior Health Physicist Nuclear Materials Safety Branch B Linda M. Gersey, Health Physicist Nuclear Materials Safety Branch B
Accompanied By:	Tanya Palmateer Oxenberg, PhD, Health Physicist Decommissioning and Uranium Recovery Licensing Directorate Division of Waste Management and Environmental Protection Office of Federal and State Materials and Environmental Management Programs James Webb, Project Manager Decommissioning and Uranium Recovery Licensing Directorate Division of Waste Management and Environmental Protection Office of Federal and State Materials and Environmental Management Programs John Saxton, Hydrogeologist Decommissioning and Uranium Recovery Licensing Directorate Division of Waste Management and Environmental Protection Office of Federal and State Materials and Environmental Management Programs
Approved By:	Jack E. Whitten, Chief Nuclear Materials Safety Branch B
Attachment:	None

ENCLOSURE

NRC Trip Report

Background

By letter dated July 3, 2008, Energy Metals Corporation submitted a Source Materials License application to the NRC for the Antelope and JAB Uranium Project in Sweetwater County, Wyoming. The Antelope and JAB Project would involve the recovery of uranium by insitu recovery (ISR) extraction at the two sites. When fully operational, the project will consist of a central processing facility at Antelope and a satellite facility at JAB.

The NRC published a notice of receipt and availability of the license application, and opportunity to request a hearing, in the *Federal Register* on May 19, 2009. The NRC subsequently published a Notice of Intent to Prepare a Supplemental Environmental Impact Statement in the *Federal Register* on August 14, 2009, for the Antelope and JAB Uranium Project.

Site Status

At the time of the site visit, the company employed approximately 25-30 staff members at its Casper, Wyoming office. The majority of the staff consisted of geologists. Presently, there are no major physical structures located at either site.

No major drilling activities have been conducted during calendar year 2009, although the company plans to conduct additional exploratory drilling in the next 30 days. The company has not conducted any groundwater or surface water sampling this year, and baseline air particulate and radon sampling have been suspended.

Approximately 30 groundwater monitoring wells have been installed including 24 groundwater monitoring wells at the Antelope site and six groundwater monitoring wells at the JAB site.

The company is currently conducting wildlife monitoring. There are no meteorological stations at the Antelope and JAB sites. Instead, the company uses the meteorological weather stations at the Seminoe Mines and the Rawlins Airport to monitor and record weather conditions.

The NRC staff conducted a limited visit of the location for the future central processing plant at the Antelope site. There were no field activities in progress during the site visit. The licensee plans to commence with construction of the facility during early 2010, but the construction schedule depends on when the NRC issues the license.

Energy Metals Corporation Officials Contacted

Jon Winter, Manager, Wyoming Environmental and Regulatory Affairs
Steven Loose, Senior Geologist

Antelope Site Photos

Figure 1: Antelope site, looking south

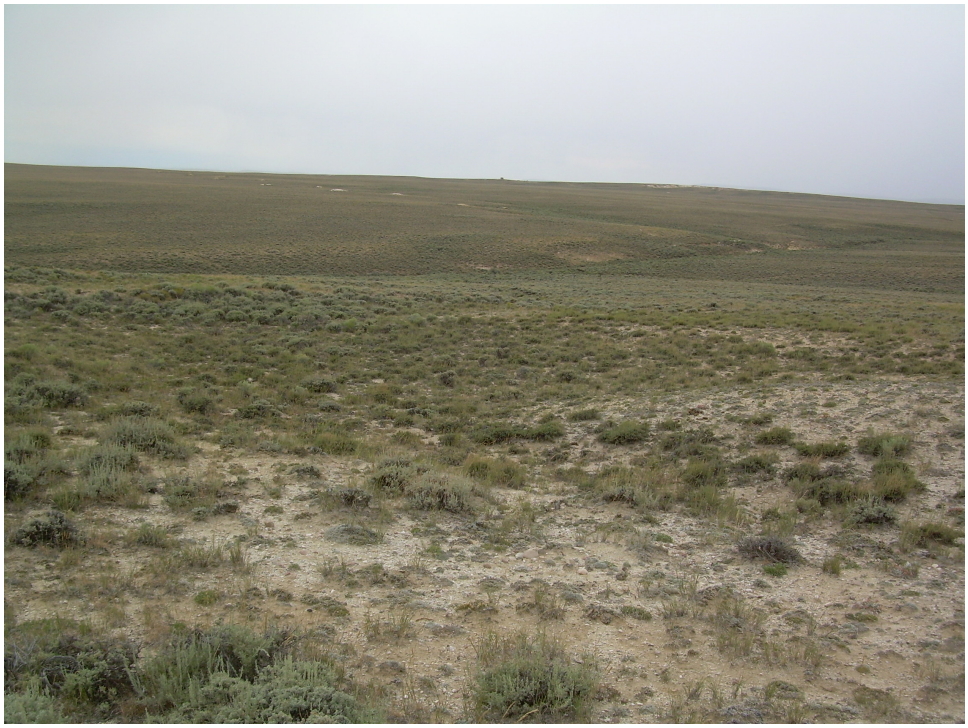

Figure 2: Antelope site, looking northwest