



May 11, 2010

Mr. Larry Camper, Director  
Division of Waste Management and Environmental Protection,  
Office of Federal and State Materials and Environmental Management Programs  
U.S. Nuclear Regulatory Commission  
Two White Flint North, Mailstop T8F5  
11545 Rockville Pike  
Rockville, MD 20852

RE: Withdrawal of Ludeman Amendment Application  
Materials License SUA-1341, Docket No. 40-8502

Dear Mr. Camper:

Uranium One Americas (Uranium One) is hereby withdrawing an application for amendment to Materials License SUA-1341 which, when approved, will authorize the construction and operation of the Ludeman Uranium Project in Converse County, Wyoming. The Ludeman project will consist of three satellite plants and associated wellfields that will ship loaded ion exchange resin for further uranium recovery processing at the Irigaray Central Plant.

As you know, Uranium One completed the acquisition of Cogema Mining, Inc., including the Irigaray and Christensen Ranch Uranium Projects, in late January 2010. In addition to the application to amend that license to add the Ludeman satellite operations, NRC is currently reviewing a license renewal application for SUA-1341. On January 14, 2010, a public teleconference was held concerning open issues identified by NRC staff for the license renewal safety evaluation report. At the time of this teleconference, Uranium One had not completed the acquisition of Cogema Mining. The open issues were later summarized in a letter from NRC dated February 18, 2010.

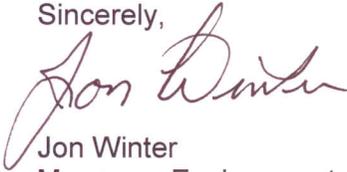
Uranium One is currently in the process of preparing responses to the SUA-1341 renewal open issues including a revised license renewal application. During the preparation of these renewal documents, Uranium One has become aware of several inconsistencies between the safety and environmental programs proposed in the Irigaray\Christensen

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Ranch license renewal and those contained in the Ludeman amendment application. While these inconsistencies are minor, we believe that correcting them in the Ludeman amendment application at this time will conserve NRC and Uranium One resources during the technical review process. Moreover, Uranium One has developed additional site characterization and technical design information specific to the Ludeman project since the application was submitted that we believe will streamline the amendment review process and allow a more thorough safety and environmental evaluation by NRC staff.

We intend to submit a revised amendment application for the Ludeman project within the next 60 to 90 days. If you have any questions, please feel free to contact me at (307) 234-8235 ext. 331.

Sincerely,



Jon Winter  
Manager- Environmental and Regulatory Affairs, Wyoming