



May 31, 2011

Dr. Charles L. Miller, Director
Office of Federal and State Materials and
Environmental Management Programs
U.S. Nuclear Regulatory Commission
Two White Flint North, Mail Stop T8D22
11545 Rockville Pike
Rockville, MD 20852

Dear Mr. Miller

RE: Updated Letter of Intent--Titan Uranium USA, Inc.'s Proposed Sheep Mountain Uranium Project, State of Wyoming

The purpose of this letter is to update the status of Titan Uranium USA, Inc.'s (Titan) proposed Sheep Mountain Uranium Project, located in Fremont County, Wyoming and the proposed License Application, as previously indicated in our letter of Intent, dated February 16, 2010, updated November 11, 2010. Titan is a wholly-owned subsidiary of Titan Uranium, Inc., a publicly traded company listed on the Toronto Stock Exchange (TUE.V). Titan has its United States office in Casper, WY, and its parent company's (Titan Uranium, Inc.) head corporate office is located in Saskatoon, SK, Canada.

Since the submission of our initial Letter of Intent in February and the update in November 2010, Titan has made considerable progress in developing the data required to support our proposed application. This information has been shared with NRC Staff at meetings, in April and September of 2010, as well as February and May 2011.

The Sheep Mountain area has been the site of previous uranium mining from both underground and open pit operations commencing in 1957 (Western Nuclear, Inc. (WNI)), with the most recent mining activities taking place in 1988. There is a past NRC source material license, which covers a portion of the project area, for an ion-exchange (IX) plant previously operated by WNI (SUA - 1524). The proposed project has a current mine permit issued by Wyoming Department of Environmental Quality (WDEQ) (Permit #381C) for both the underground and open pit mining operations. A proposed revision of that permit is currently being prepared for submission to WDEQ. Planned uranium extraction will be conducted using heap leach methodologies, followed by solvent extraction or IX, drying, and packaging. Each of these activities is proposed to be conducted within the current WDEQ mine permit area.



TITAN
URANIUM INC

Titan plans to submit a license application that will include: (1) a cover memorandum discussing the aspects of the application and any associated legal/regulatory issues; (2) a technical report prepared in accordance with applicable NRC regulations, guidance, and associated regulatory guides; and (3) an environmental report prepared in accordance with NUREG-1748 entitled *Environmental Review Guidance for Licensing Actions Associated with NMSS Programs*. In addition, in the event that Titan determines that elements of the aforementioned license application require protection from public disclosure, Titan will submit an application pursuant to 10 CFR § 2.390 to obtain such public protection.

In addition to the considerable data available regarding site-specific conditions, Titan's license application will comply with NRC's 10 CFR Part 40, Appendix A requirements for a minimum of twelve months of pre-operational monitoring and data gathering for a range of site-specific issues, including collection of the required environmental baseline data regarding site specific radiological conditions, climatology, air quality, geology and hydrology.

Based on current projections, Titan believes that it will submit its license application on or about the end of October 2011. In the event that this schedule is likely to change, Titan will provide NRC Staff with immediate notice of any such change. Thank you very much for your time and consideration in this matter and we look forward to continuing to work with you and your staff.

Respectfully Submitted,

Chris M. Healey, P.G.
President and Chief Executive Officer
Titan Uranium USA Inc.

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cc: Stephen Cohen, U.S. Nuclear Regulatory Commission
Gregory L. Adams, VP Exploration, Titan Uranium USA Inc.