

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

Mail Stop 3561

May 5, 2016

Via E-mail
Jeffrey L. Vigil
Vice President, Finance and Chief Financial Officer
Uranium Resources, Inc.
6950 South Potomac Street, Suite 300
Centennial, Colorado 80112

Re: Uranium Resources, Inc.

Registration Statement on Form S-1

Filed April 18, 2016 File No. 333-210793

Dear Jeffrey Vigil:

We have limited our review of your registration statement to those issues we have addressed in our comments. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to this letter by amending your registration statement and providing the requested information. If you do not believe our comments apply to your facts and circumstances or do not believe an amendment is appropriate, please tell us why in your response.

After reviewing any amendment to your registration statement and the information you provide in response to these comments, we may have additional comments.

General

1. We note that you are registering up to 2,500,000 shares of your common stock for resale, which appears to be more than one-third of the nonaffiliated float. Based on the aggregate number of shares being registered for resale in this registration statement relative to the number of outstanding shares held by non-affiliates and given that you are also not eligible to register the offering as a primary offering on Form S-3, please advise us why the current offering is eligible to proceed as an at-the-market offering.

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes the information the Securities Act of 1933 and all applicable Securities Act rules require. Since the company and its management are in

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possession of all facts relating to a company's disclosure, they are responsible for the accuracy and adequacy of the disclosures they have made.

Notwithstanding our comments, in the event you request acceleration of the effective date of the pending registration statement, please provide a written statement from the company acknowledging that:

- should the Commission or the staff, acting pursuant to delegated authority, declare the filing effective, it does not foreclose the Commission from taking any action with respect to the filing;
- the action of the Commission or the staff, acting pursuant to delegated authority, in declaring the filing effective, does not relieve the company from its full responsibility for the adequacy and accuracy of the disclosure in the filing; and
- the company may not assert staff comments and the declaration of effectiveness as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

Please refer to Rules 460 and 461 regarding requests for acceleration. We will consider a written request for acceleration of the effective date of the registration statement as confirmation of the fact that those requesting acceleration are aware of their respective responsibilities under the Securities Act of 1933 and the Securities Exchange Act of 1934 as they relate to the proposed public offering of the securities specified in the above registration statement. Please allow adequate time for us to review any amendment prior to the requested effective date of the registration statement.

Please contact Kathleen Suellentrop at (202) 551-4256 or James Lopez at (202) 551-3536 with any other questions.

Sincerely,

/s/ James Lopez (for)

John Reynolds Assistant Director Office of Beverages, Apparel, and Mining

cc: David Crandall, Esq. Hogan Lovells US LLP