



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

April 10, 2017

ALL AGREEMENT AND NON-AGREEMENT STATES  
STATE LIAISON OFFICERS  
TRIBES WITHIN 50 MILES OF REACTORS

NOTIFICATION OF AN UPCOMING WEBINAR ON THE PAST, PRESENT AND FUTURE OF  
MOLYBDENUM-99 PRODUCTION (STC-17-037)

**Purpose:** To provide notification that the U.S. Nuclear Regulatory Commission (NRC) staff will conduct a webinar on the past, present and future of molybdenum-99 production on May 16, 2017, as part of the ongoing State Liaison Officers webinar training series.

**Background:** Molybdenum-99 is a radioisotope with a 66 hour half-life that decays to technetium-99m with a 6 hour half-life. Technetium-99m is used worldwide in over 20 million nuclear medicine imaging procedures per year (over 50 percent of these procedures are performed in the United States). The supply system for molybdenum-99, which is produced from the fissioning of uranium, is complex and is dependent on only a few reactors in the world. In the last 10 years, this system has proven to be fragile in that there have been severe molybdenum-99 shortages due to reactor outages and production plant issues. Additionally, many of the reactors that produce molybdenum-99 are being converted from highly-enriched uranium targets to low-enriched uranium targets. As this shift is made, supplies may be impacted. Although molybdenum-99 is not currently produced in the United States, there are several efforts to begin production here to ensure a stable supply.

**Discussion:** The NRC continues to seek ways to provide technical support for training and to engage States and tribes on topics. This webinar will both provide an overview of the roles of federal agencies and applicable regulations and discuss issues associated with introduction of molybdenum-99 production in the United States.

The webinar is scheduled for May 16, 2017, from 2 p.m. – 3 p.m. (ET). Participants must register in advance of the webinar at the following link:

<https://attendee.gotowebinar.com/register/1422935553737150467>.

STC-17-037

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If you have any questions regarding this correspondence, please contact me at 301-415-3340 or the individual named below:

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