

From: [Sean M. McDeavitt](#)
To: [Boyle, Patrick](#)
Cc: [Osborn, Jeremy M](#); [Newhouse, Jerry E](#); [Adams, Alexander](#); [Hardesty, Duane](#)
Subject: [External_Sender] RE: Proposed license conditions for Texas A&M University AGN reactor, License Number R-23
Date: Friday, September 23, 2016 4:01:11 PM

Patrick,

Thank you for forwarding these proposed changes to me. I have reviewed these changes and discussed them with my staff and I agree with, accept, and affirm the text below. Please proceed accordingly to implement the changes.

Best Regards,

Sean M. McDeavitt

Director, TEES Nuclear Science Center
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From: Boyle, Patrick [mailto:Patrick.Boyle@nrc.gov]
Sent: Thursday, September 22, 2016 10:29 AM
To: Sean M. McDeavitt
Cc: Osborn, Jeremy M; Newhouse, Jerry E; Adams, Alexander; Boyle, Patrick; Hardesty, Duane
Subject: Proposed license conditions for Texas A&M University AGN reactor, License Number R-23

Dr. McDeavitt,

In your correspondence dated June 17, 2016 (ML16169A346) you provided proposed license conditions supporting the license amendment request dated November 11, 2016 (ML15315A027) for the Texas A&M University (TAMU) Aerojet General Nucleonics model 201 modified (AGN-201M) reactor, License No. R-23. One of the proposed changes was to delete License Condition 2.B.(2) that allows possession of the special nuclear material (SNM) for the AGN-201M reactor. TAMU had also requested the license amendment to become effective upon transfer of the SNM to the Nuclear Science Center reactor License No. R-83.

The NRC staff would like to propose the following changes to the license conditions, to achieve the same results without the need to delay the effectiveness date of the license amendment. The newly revised license conditions, listed below, separate the Part 30 and Part 70 possession limits and separate the SNM related to the AGN-201M reactor fuel and startup source from the material remaining in the non-fuel components. The possession limit for the AGN-201M fuel and neutron startup source will extinguish upon transfer of the AGN-201M reactor fuel to the NSC, License No. R-83. This is similar to the license conditions developed and utilized during the conversion of the TAMU TRIGA reactor from highly enriched uranium to low enriched uranium (ML062410474).

Review the proposed license conditions listed below and respond to this email (including an affirmation statement) that you accept the NRC staff proposed license conditions or provide

alternative wording for the affected license conditions.

Sincerely,
Patrick G. Boyle
PM for TAMU-AGN reactor
License Number R-23
Docket Number 50-59

Proposed license conditions:

- B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses the Texas A&M University:
- (1) Pursuant to Section 104c of the Act and 10 CFR, Chapter 1 Part 50, "Licensing of Production and Utilization Facilities" to possess, but not use or operate the reactor as a utilization facility at the designated location in College Station, Texas, in accordance with the procedures and limitations set forth in this license.
 - (2) Pursuant to the Act and 10 CFR Part 30 "Rules of general applicability to domestic licensing of byproduct material"
 - (a) to possess, but not separate such byproduct material in the form of fission products and activated materials that had been produced in the AGN-201M reactor fuel until the AGN-201M reactor fuel is transferred to License Number R-83
 - (b) to possess, but not separate such byproduct material present in the AGN-201M reactor non-fuel components
 - (3) Pursuant to the Act and 10 CFR Part 70 "Domestic licensing of special nuclear material"
 - (a) to possess, but not separate up to 700 grams of contained uranium 235, enriched to less than 20 percent in uranium dioxide (UO₂) embedded in radiation stabilized polyethylene, and up to 16 grams of plutonium 239 in the form of a sealed Pu-Be neutron source, both in connection with operation of the AGN-201M reactor, until this special nuclear material is transferred to the R-83 license
 - (b) to possess, but not separate such special nuclear material present in the AGN-201M reactor non-fuel components