

Radiation Center



Corvallis, Oregon 97331 (503) 754-2341

July 10, 1980

U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Division of Project Management
Operating Projects Branch 4
Washington, D.C. 20555

Attention: Robert W. Reid, Branch Chief

Subject: Decommissioning of the Oregon State University AGN-201 reactor, License No. R-51, Docket No. 50-106; changes to the AGN-201 physical security plan; request for termination of the AGN-201 license.

Gentlemen:

The decommissioning of the Oregon State University AGN-201 reactor has been successfully completed. The project was carried out in accordance with the Commission's Order authorizing dismantling, dated March 8, 1979, and our NRC approved Dismantling and Disposal Plan, dated December 1978. The decommissioning went very smoothly and according to our schedule, and radiation levels were extremely low.

In compliance with the requirement specified in the above referenced Commission Order, we are enclosing the Final Decommissioning Report for the Oregon State University AGN-201 Reactor, dated July 9, 1980. We hope you find the report to be satisfactory.

In conjunction with the AGN decommissioning, several changes to the reactor's physical security plan were required. These changes were reviewed individually by the physical security staff and the Reactor Operations Committee, and were found to be acceptable since they in no way decreased the safeguards effectiveness of the AGN physical security plan. These changes are hereby reported to the NRC, as required by CFR 50.54(p).

- a. Change 1: As noted on page 11 of the OSU dismantling plan of December 1978, removal of a chain link fence associated with reactor physical security and access control was required. This was necessary to provide working space for the disassembly operation. While the locked fence was in place, the two doors to the room housing the AGN reactor

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(and other teaching equipment) were kept unlocked during the normal 8:00 a.m. to 5:00 p.m. workday. Also, the alarm circuit to Campus Security for the motion detector in the AGN room was inactivated during the stated time interval. However, on weekends and after normal working hours, the doors to the AGN room were kept locked and the motion detector alarm system was activated. To compensate for removal of the AGN area fence, it was decided that both doors to the AGN room would be kept locked at all times, thus providing a higher level of security for the reactor area than was provided during previous 8:00 a.m. to 5:00 p.m. workday intervals. During disassembly, the motion detector alarm procedure remained unchanged (i.e., inactive from 8:00 a.m. to 5:00 p.m. on workdays, active at all other times).

- b. Change 2: The disassembly project had as its final objective the removal of all AGN components from the AGN reactor room. Upon completion of this project, the fueled components (the control rods and the core) would be stored according to the dismantling plan in the TRIGA reactor room under the protection of the TRIGA physical security plan. The Ra-Be startup source would be locked in the Radiation Center source storage facility, and all other components would be removed to on-campus warehouse storage. Since the AGN room would then contain no reactor components, and since the special nuclear material from the AGN would be as well or better protected for physical security purposes while in the TRIGA facility, it was concluded that no decrease in AGN security would be created by deactivating the motion detector and dropping the requirement for locking the AGN room doors. When the decommissioning was completed, all components removed as indicated, and the exterior wall rebuilt with concrete blocks, this latter action concerning the door locks and motion detector was implemented.

The current status of the AGN-201 components is as follows:

- a. The core and all control rods are stored in the TRIGA reactor room according to our dismantling plan. The core is stored in a specially built and locked container within the TRIGA room, while all the control rods are stored in a 12 foot deep, locked, storage pit also in the TRIGA room. All fueled components are under the protection of the TRIGA physical security plan.

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- b. The nominal 10 mCi Ra-Be startup source is stored in the locked source storage facility in the Radiation Center. Authorization to possess this source outside the AGN-201 reactor has been arranged on our State of Oregon radioactive materials license, ORE-0005-3.
- c. All other reactor components have been crated and moved to an on-campus warehouse for storage.

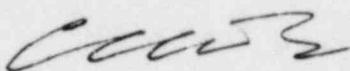
In view of the current status of our AGN-201 reactor components, we would like to formally submit the following requests:

- a. Transfer all AGN-201 fueled components (i.e., the control rods and the core) from the AGN license no. R-51, docket no. 50-106, onto the Oregon State University TRIGA reactor license no. R-106, docket no. 50-243, for possession only. The special nuclear material involved totals approximately 656 grams of uranium-235 at an enrichment of approximately 19.79%.
- b. Terminate the existing AGN-201 license no. R-51, docket no. 50-106.

We hope the information supplied by this letter and the attached report is sufficient to allow you to proceed with the termination of the AGN-201 license. However, if there are questions, please let me know, as we would appreciate being able to fully utilize the space formerly occupied by the AGN as soon as reasonably possible.

Thank you for your assistance throughout this action.

Yours sincerely,



C.H. Wang
Reactor Administrator
Director

CHW/mks

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