

National Aeronautics and  
Space Administration  
**John H. Glenn Research Center**  
**Lewis Field**  
Cleveland, OH 44135-3191



January 29, 2008

Reply to Attn of:

QSH

U.S. Nuclear Regulatory Commission  
Director, Office of Federal and State Materials  
and Environmental Management Program  
Attn: Document Control Desk  
Washington, DC 20555-0001

Subject: Notification In Accordance with 10 CFR 30.36(d)

Ref: License # 34-00507-16, Docket # 030-05626

Facilities at the National Aeronautics and Space Administration's (NASA) John H. Glenn Research Center (GRC) in Cleveland, Ohio include a non-operational particle accelerator. Construction of this cyclotron by General Electric began in the late 1940's with the operational unit being turned over to the National Advisory Committee for Aeronautics (NACA) in 1956. Over the years, various research activities were performed using this cyclotron, including the intentional generation of radioactive isotopes. After ceasing operations in 1990, facility modifications were implemented to stabilize the underground building housing the cyclotron in order to prevent the potential spread of contamination and facilitate storage for radiological decay. These improvements included an upgrade to the ventilation system in the area, the installation of a new heating system, as well as improvements to other structural components. The building housing the particle accelerator is posted as a restricted area and has been under the control of GRC's health physics staff since cyclotron activities ended.

Based upon available information regarding the Nuclear Regulatory Commission's (NRC) change to their definition of "byproduct material," NASA believes that the activated cyclotron machine and supporting equipment should now be designated as byproduct material. Accordingly, this now licensable material is subject to NRC rules on decommissioning in 10 CFR 30.36 "Expiration and termination of licenses and decommissioning of sites and separate buildings or outdoor areas." As such, GRC is providing this formal notification to the commission about the NASA cyclotron facility.

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Additionally, the Center Radiation Safety Officer has been involved with initial communications with Region III decommissioning branch personnel. Two individuals from Region III and two from NRC headquarters managed to briefly visit the cyclotron facility at the tail-end of a regularly-scheduled inspection of the NASA's Plum Brook Reactor Facility decommissioning in early November.

Should you have questions or require additional information, you may contact Mr. Chris Blasio, Radiation Safety Officer, at (216) 433-6520.

A handwritten signature in black ink, reading "Gayle M. Reid". The signature is written in a cursive, flowing style.

Gayle M. Reid, Chief  
Occupational Health Branch

cc:

U.S. Nuclear Regulatory Commission/W. Snell

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