

October 10, 2012

Ms. Anita D. Liang, Director  
Safety and Mission Assurance  
NASA Glenn Research Center  
Plum Brook Station  
6100 Columbus Avenue  
Sandusky, Ohio 44870

SUBJECT: TERMINATION OF FACILITY LICENSE NOS. TR-3 AND R-93 FOR THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH REACTORS AT THE PLUM BROOK REACTOR FACILITY, SANDUSKY, OHIO

Dear Ms. Liang,

The U.S. Nuclear Regulatory Commission (NRC) has reviewed the National Aeronautics and Space Administration (NASA) request (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12268A326), to terminate Plum Brook Reactor Facility (PBRF) License Nos. TR-3 and R-93. In this request, NASA stated that it has completed all decommissioning activities specified in the NRC-approved decommissioning plan (DP) for PBRF and the terminal radiation survey and associated documentation demonstrate that the facility and site are suitable for release in accordance with the requirements for license termination in 10 CFR 50.82(b)(6).

On the basis of decommissioning activities carried out by NASA, the NRC evaluation of the final status surveys and Final Status Survey Report (FSSR), combined with the results of NRC's independent and confirmatory surveys, and 15 on-site inspections, the NRC staff concluded that the site radiological levels are consistent with the provisions of 10 CFR Part 20, "Standards for Protection Against Radiation," section 20.1402, "Radiological criteria for unrestricted use." As such, we consider the site acceptable for unrestricted use, and Facility License Nos. TR-3 and R-93 are hereby terminated. A technical evaluation report documenting the NRC staff's review of NASA's remediation activities and FSSR is enclosed.

The NRC staff also compared the remaining on-site residual contamination levels against the U.S. Environmental Protection Agency (EPA) trigger levels for soil and maximum contaminant levels (MCLs) for groundwater in the Memorandum of Understanding (MOU) between EPA and NRC on "Consultation and Finality on Decommissioning and Decontamination of Contaminated Sites." The NRC staff has concluded that the EPA trigger levels for soils and MCLs for groundwater were not exceeded and no consultation is required in accordance with Section V.C.2 of the MOU.

In connection with the license termination, we are enclosing two copies of Amendment No. 18 to Indemnity Agreement No. D-3. Please sign and return one copy to this office.

Also enclosed is a copy of the Notice of License Termination, which is being sent to the Office of the Federal Register for publication.

A. Liang

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In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice for Domestic Licensing Proceedings and Issuance of Orders," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of ADAMS. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

If you have any questions concerning this matter, please contact Chad Glenn at (301) 415-6722.

Sincerely,

**L. Chang for /RA/**

Andrew Persinko, Deputy Director  
Decommissioning and Uranium Recovery  
Licensing Directorate  
Division of Waste Management  
and Environmental Protection  
Office of Federal and State Materials  
and Environmental Programs

Docket Nos.: 50-30 and 50-185  
License Nos.: TR-3 and R-93

Enclosures:

1. Technical Evaluation Report
2. Amendment No. 18 to  
Indemnity Agreement D-3
3. *Federal Register* Notice

cc: see next page

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**L. Chang for /RA**

Andrew Persinko, Deputy Director  
Decommissioning and Uranium Recovery  
Licensing Directorate  
Division of Waste Management  
and Environmental Protection  
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National Aeronautics  
and Space Administration

Docket Nos. 50-30 and 50-185

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**Enclosure 1**  
**Technical Evaluation Report**  
**ML12223A254**

**Enclosure 2**  
**Amendment No. 18 to Indemnity Agreement D-3**  
**ML12264A323**

**Enclosure 3**  
**Federal Register Notice**  
**ML12223A263**