National Aeronautics and Space Administration

John H. Glenn Research Center Lewis Field Cleveland, OH 44135-3191



May 28, 2008

Reply to Attn of:

**QSH** 

U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

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

Please amend the subject byproduct materials license as indicated below to reflect the following changes in authorized possession by the National Aeronautics and Space Administration's (NASA) John H. Glenn Research Center (GRC).

Remove Item A, "Carbon-14" (Amersham TO77). This item was transferred to the Duratek (Energy Solutions) Bear Creek Facility on April 3, 2008, on manifest 3533-T081414. Enclosed is the receipt letter from Duratek (Energy Solutions), the associated Uniform Low-Level Radioactive Waste Manifest "Shipping Paper" (Form 540), and "Container and Waste Description" (Form 541), and the GRC's internal "Radioactive Material Receipt and Inventory Record."

Remove Item C, "Americium-241/Beryllium" (General Nuclear, Inc.). This item was transferred to the Off-Site Source Recovery (OSR) Project which is managed by the Department of Energy's Los Alamos National Laboratory. Enclosed is the "Authorization to Transfer/Relinquishment of Ownership" (ATRO) number 2008:37 and associated cover letter.

Also, based upon the change in the Nuclear Regulatory Commission's (NRC) definition of "byproduct material" and the requirements of 10 CFR 30.36(d), the GRC provided formal notification to the NRC on January 29, 2008, of NASA's possession of a shutdown particle accelerator. Enclosed is a copy of this letter. GRC requests that its possession of the activated materials (equipment and infrastructure) associated with this shutdown cyclotron facility be covered under item D on the current license. To accommodate the cyclotron materials, the "Authorized Use" for this item would need to be updated to include "For storage only incident to disposal" in addition to "For research and development as described in 10 CFR 30.4." There would be no change in possession limits and consequently no impact on financial assurance.

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

Gayle M. Reid, Chief /

Occupational Health Branch

3 Enclosures



Thursday, April 3, 2008

Radiation Safety Officer NASA - Plumbrook Reactor Facility 6100 Columbus Avenue Sandusky, OH 44870

Dear Attn Officer:

The attached signed shipping manifest copies are your notice of receipt of the radioactive waste materials shipment specified on the manifest number below.

Manifest Number

Date Received

3533-T081414

Thank you for your business.

Jammy 2. Payre

Sincerely,

Shipping and Receiving

cc: Manifest File Shipping and Receiving file Extrasted lumbers per response to compty with this intermedian collection request. 45 minutes. This uniform connection to receive by PRIC to most reporting requirements of Pederal and Exists Apparets for the sets transportation, and disposal of New-Investments. Board despression requirements to the Second and FCIAP receive Branch (14 PCZ, LLX, Reciser Regulatory, Control and Regulatory, Control and Second and FCIAP received and FCIAP received by Deck Officer, Critica of Enteroperation and Regulatory, Artists, ASC 4-1212, [2154-6147, CRIC and Enteroperation, DC 28533-171 a means treed to Impulse an Information collection and Second Critical and Cri

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N3 International Threat Reduction Off-Site Source Recovery (OSR) Project P.O. Box 1663, Mail Stop: J552 Los Alamos, New Mexico 87545 505-667-7440/Fax: 505-665-7913

Date: May 8, 2008 Refer to: N3: 08-058

James Caldwell, Director Div. of Nuclear Materials Safety 2443 Warrenville Road, Suite 210 Lisle, ILL 60532-4352

Re: ATRO#2008:37

Dear Mr. Caldwell:

Enclosed please find a signed Authorization to Transfer/Relinquishment of Ownership/Custody form concerning:

NASA John H. Glenn Research Center 21000 Brookpark Road Mailstop 6-4 Brookpark, OH 44135

The radioactive source described on the form has been removed from the John H. Glenn Research Center in Brookpark, OH and is in storage at NSSI in Houston, TX. This source has been transferred to Department of Energy (DOE) ownership and is being stored under DOE license exemption.

This action was completed as part of the Off-Site Source Recovery (OSR) Project managed by this office. If you need any further information on this action, please contact the OSR Project Office at 505-667-7440.

Sincerely,

Rick Rasmussen

Team Leader OSR Project

1 Normans

RR/lh\_\_\_\_

Cy:

Christopher J. Blasio, John H. Glenn Research Center Michele Burgess, NRC HQ Joel Grimm, U.S. DOE, NA-211 N3 File OSRP File

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## Los Alamos

NATIONAL LABORATORY

## ATRO # 2008:37

MAR -7 800:

## Off-Site Source Recovery Project Authorization to Transfer/Relinquishment of Ownership/Custady

SOURCE OWNER:

NASA John H. Glenn Research Center

TELEPHONDE:

216 433-6520

LICENSE:

3 NRC - Region III

FAX:

216 433-8719

LICENSE:

No.: 34-00507-16

Christopher J. Blasio

CONTACT NAME: ADDRESS:

21000 Brookpark Road

Mailstop 6-4

Brookpark, OH 44135

Pursuant to its authority under the Atomic Energy Act, the U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) has directed Los Alamos National Security, LLC(LANS), to recover and store excess, unwanted, abandoned, orphan radioactive sealed sources and other radioactive material sources on behalf of DOE/NNSA.

LANS has determined that the sealed source(s) identified below meet the requirements of the Los Alamos National Laboratory Off-Site Source Recovery Project and, on behalf of DOE/NNSA, authorizes NASA John H. Glenn Research Center to transfer the sealed source(s) to the following designated LANS support subcontractor:

NSSI/Sources & Services, Inc.
Texas Department of State Health Services
Radioactive Material License No. L02991

NASA John H. Glenn Research Center affirms it is the owner/custodian of the sealed source(s) identified below, and hereby irrevocably relinquishes all rights, title and ownership/custody in the scaled source(s) to DOE/NNSA in furtherance of the OSRP. LANS accepts the sealed sources on behalf of DOE/NNSA, pursuant to DOE/NNSA contract no. DE-AC52-06NA25396, upon the execution of the Acknowledgment of Receipt of the source(s) by the designated LANS support subcontractor below.

## SOURCE INFORMATION

Isotope:	Mfr/Model:	Serial No:	Activity (Ci):	
241Am/Be	GENNU/NB	NB-200	0.947	
SOURCE OWN OFFICIAL NAM		J. Blasio	Radiation Safety Office	.e (
		lease Print or Type)	TITLE (Please Print or Type)	
SIGNATURE	(18)		DATE 2/20/08	
LANS AUTHO	RIZATION:			
OFFICIAL NAM	IE/TITLE: Rick Rasmus	sen; Team Ecader, Off-Site S	* 1° /	1
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		DESIGNATED LANS SU	PPORT SUB CONTRACTOR:	
NSSI / Sources &	& Services, Inc.			
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SIGNATURE _	- Caly		DATE 4-22-08	

National Aeronautics and Space Administration

John H. Glenn Research Center Lewis Field Cleveland, OH 44135–3191



January 29, 2008

Reply to Attn of:

**OSH** 

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.

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 tailend 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.

Gaze M. Reid, Chiez

Occupational Health Branch

cc:

U.S. Nuclear Regulatory Commission/W. Snell

National Aeronautics and Space Administration

John H. Glenn Research Center

Sender Mail Stop 21000 Brookpark Road

21000 Brookpark Road Cleveland, OH 44135-3191



U S NUCLEAR REGULATORY COMMISSION REGION III 2443 WARRENSVILLE ROAD, SUITE 210 LISLE IL 60532-4352 02 1A \$ 01.170 0004629852 MAY 29 2008 MAILED FROM ZIPCODE 44135