

(10-2003)  
10 CFR 2.201

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

**Battelle Memorial Institute**  
505 King Avenue  
Columbus, OH 43201-2693

## 2. NRC/REGIONAL OFFICE

**U.S. Nuclear Regulatory Commission**  
Region III  
2443 Warrenville Road  
Liste, Illinois 60532-4352

REPORT

070-00008/05-003

## 3. DOCKET NUMBER(S)

070-00008

## 4. LICENSEE NUMBER(S)

SNM-00007

## 5. DATE(S) OF INSPECTION

10/24-27/05

## LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:



1. Based on the inspection findings, no violations were identified.



2. Previous violation(s) closed.



3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):



4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

(Violations and Corrective Actions)

## Licensee's Statement of Corrective Actions for Item 4, above.

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

Title

Printed Name

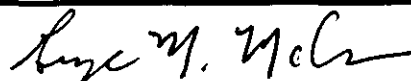
Signature

Date

LICENSEE'S  
REPRESENTATIVE

NRC INSPECTOR

George M. McCann, Senior Health Physicist



10/27/05

(10-2003)  
10 CFR 2.201

# **Docket File Information** **SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE <b>Battelle Memorial Institute</b>		2. NRC/REGIONAL OFFICE <b>Region III 2443 Warrenville Road Lisle, IL 60532</b>	
REPORT NUMBER(S) <b>070-00008/05-003</b>			
3. DOCKET NUMBER(S) <b>070-00008</b>	4. LICENSE NUMBER(S) <b>SNM-00007</b>	5. DATE(S) OF INSPECTION <b>October 24-27, 2005</b>	
6. INSPECTION PROCEDURES USED <b>83890, 86740, 83822</b>		7. INSPECTION FOCUS AREAS <b>0.01-03.07</b>	

## SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) <b>21325</b>	2. PRIORITY <b>D</b>	3. LICENSEE CONTACT <b>Joe Jacobsen, Radiation Safety Officer</b>	4. TELEPHONE NUMBER <b>(614) 424-4098</b>
------------------------------------	-------------------------	--	--

<input checked="" type="checkbox"/> Main Office Inspection	Next Inspection Date: _____
<input type="checkbox"/> Field Office _____	
<input checked="" type="checkbox"/> Temporary Job Site	<u>Battelle Memorial Institute, West Jefferson, Ohio</u>

## PROGRAM SCOPE

The licensee is nearing completion of demolition and remediation of underlying soils of four research buildings, associated drain and sewer lines and filter beds at its former North Nuclear Sciences Site, located near West Jefferson, Ohio. These activities are part of the Battelle Columbus Laboratories Decommissioning Project. As part of the decommissioning activities, the licensee was approved to temporarily store onsite remote handled and contact handled transuranic wastes, until an approved disposal site could be arranged. The licensee recently received approval to ship its transuranic wastes to the U.S. Department of Energy's (DOE) Savannah River Company, located at Aiken, South Carolina. This shipment is the first of a number of shipments to the DOE's Savannah River facility. This shipment involved the transfer of a number of standard waste boxes containing contact handled transuranic radioactive materials in U.S. Department of Energy's TRUPACT-II, Type B shipping cask, NRC Certificate of Compliance No. 9218, revision 17, Package No. USA/9218/B(U) F-85.

## Performance Observations

The licensee verified and documented the labeling, placarding, and radiation survey of the shipping vehicle, transport trailer, and shipping casks according to Battelle "Transportation Operation Procedure, Shipping and Receiving Radioactive Materials," TR-OP-003, rev. 4. Inspectors from the Public Utilities of Ohio Commission (PUCO) also inspected the shipment according to U.S. Department of Transportation (DOT) and Ohio State Transportation requirements. The PUCO inspectors checked the drivers license and medical documents for each driver, the mechanical safety aspects of the semi-tractor, semi-trailer, proper DOT shipping papers, proper labeling and placarding of the vehicle and appropriate DOT labels according to type radioactive material and radiation levels from the shipping casks ("Driver/Vehicle Examination Report," Number: OH320230378).

The NRC inspector performed independent radiation surveys, and observed the performance of radiation surveys by an Ohio Department of Health, Bureau of Radiological health physicist on the shipping casks. The inspector also observed licensee's activities to insure proper security and personnel radiation exposure control while the shipping containers were being prepared for shipment.

The NRC inspector interviewed licensee personnel, and personnel from the DOE Savannah River Company and the DOE Waste Isolation Pilot Project. The DOE personnel audited Battelle's waste inventory, which included records and video-tape review, to insure that the licensee's NRC Forms 540 and 541, "Uniform Low Level Radioactive Waste Manifest-Shipping Paper," and "Uniform Low Level Radioactive Manifest-Contaminated Waste Description," respectively, were correct.