

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Purdue University  
West Lafayette, IN

REPORT

## 2. NRC/REGIONAL OFFICE

U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road  
Suite 210  
Lisle, Illinois 60532-4351

## 3. DOCKET NUMBER(S)

070-00152

## 4. LICENSEE NUMBER(S)

SNM-142

## 5. DATE(S) OF INSPECTION

Oct 21, 2005

## 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

- ☒ 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	Deborah A. Piskura	<i>D. A. Piskura</i>	10/21/05

## Docket File Information

SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION

1. LICENSEE <b>Purdue University</b> REPORT NUMBER(S) <b>2005-001</b>		2. NRC/REGIONAL OFFICE <b>Region III</b> <b>2443 Warrenville Road</b> <b>Lisle, IL 60532</b>	
3. DOCKET NUMBER(S) <b>070-00152</b>	4. LICENSE NUMBER(S) <b>SNM-142</b>	5. DATE(S) OF INSPECTION <b>October 21, 2005</b>	
6. INSPECTION PROCEDURES USED <b>87126</b>	7. INSPECTION FOCUS AREAS <b>03.01, 03.02, 03.03, 03.04, 03.05, 03.06, and 03.07</b>		
<b>SUPPLEMENTAL INSPECTION INFORMATION</b>			
1. PROGRAM <b>21310</b>	2. PRIORITY <b>E1C 5</b>	3. LICENSEE CONTACT <b>Jim Schweitzer, Ph.D., RSO</b>	4. TELEPHONE NUMBER <b>765.494.2350</b>
<input checked="checked" type="checkbox"/> Main Office Inspection <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site			
Next Inspection Date: <b>October 2010</b>			

## PROGRAM SCOPE

The Purdue University possessed various quantities of fuel rods, uranium oxide pellets, natural uranium, a PuBe subcritical assembly and various calibration and reference sources used in its Fast Breeder Blanket Facility (FBBF). The FBBF was commissioned in the 1980's and used for breeder reactor technology research. As stated in Inspection Report 99-001, the licensee had not used the FBBF since the early 1990's and all material was maintained in secured storage. Access to the material was restricted to authorized users within the Physics and Nuclear Engineering departments. The University continued to negotiate with the Department of Energy for transfer of all fuel to the DOE. The RSO expected this transfer to occur within the next 2 years. The remaining material authorizations (PuBe sources, calibration and reference sources) would be transferred to Purdue's broad scope license (13-02812-04).

This inspection consisted of tours of the FBBF and the material storage rooms; review of select records; interviews with licensee staff; and independent surveys.