

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Dow AgroSciences 9330 Zionsville Road 306 Building, E2-1010 Indianapolis, IN 46268-1054 REPORT NUMBER(S) 16-001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Rd, Suite 210 Lisle, IL 60532
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3. DOCKET NUMBER(S) 030-32714	4. LICENSE NUMBER(S) 13-26398-01	5. DATE(S) OF INSPECTION May 12, 2016
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6. INSPECTION PROCEDURES USED 87126	7. INSPECTION FOCUS AREAS 03.01-03.07
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03610	2. PRIORITY 3	3. LICENSEE CONTACT Roben Roberts Trout, RSO	4. TELEPHONE NUMBER (317) 337-3435
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Main Office Inspection Next Inspection Date: 05/12/2019
 Field Office Inspection _____
 Temporary Job Site Inspection _____

PROGRAM SCOPE

This was a routine inspection of a broadscope research and development licensee located in Indianapolis, Indiana, with one field research station located in Fowler, Indiana. Radioactive materials have never been used at the field research station as of the inspection. The licensee had 32 active laboratories and 2 greenhouses at the main facility authorized to use radioactive materials. The licensee had 7 principal investigators and 80 research workers who were authorized to use the radioactive materials. The licensee decommissioned one research laboratory that used phosphorus-32 in December 2015.

Performance Observations

The inspection consisted of interviews with select licensee personnel; a review of select records; a tour of the facilities; and independent measurements. Interviews with staff from the environmental health and safety (EHS) office, radiation safety committee (RSC) chairperson, RSC management representative, research laboratory worker and through demonstrations indicated the licensee's staff to be knowledgeable of radiation protection principles and regulatory requirements. The inspector reviewed the radioactive materials inventory, distribution, and waste disposal tracking procedures. The inspector visited four different laboratories where radioactive materials are used and stored, and toured the waste disposal facility. Licensed material was observed to be adequately secured, labs authorized to use material have restricted access, proper "caution radioactive material" signs posted, and the room designated for decay in storage was locked. The inspector did not observe any use of radioactive materials at the time of inspection. The inspector had a loading dock staff demonstrate how to handle, survey, wipe test, and document a package upon receipt, with no issues noted.

Interviews with licensee staff indicates the staff had an adequate level of understanding when it came to tracking inventory, material handling techniques, waste disposal, area surveys, and spill procedures. The inspector reviewed the decay in storage and waste disposal records, with no findings. The RSC meets quarterly and approves authorized users at their meetings. Authorized users are required to complete several training sessions and pass an exam with a score of 90% or higher prior to approval. The inspector reviewed the RSC minutes, semi-annual program audits, authorized users initial and annual training program, inventory procedures, wipe tests, meter calibration, and disposal procedures, with no issues noted.

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(Continued)

The inspector reviewed dosimetry records for 2013, 2014, and 2015, indicating the maximum annual dose to be minimal detected - DDE and 190 mrem - SDE, and performed independent and confirmatory radiation measurements which indicated results consistent with the licensee's survey results and within regulatory limits.

No violations of NRC requirements were identified as a result of this inspection.