

Occurrence Report

After 2003 Redesign

SNL Division 2000

(Name of Facility)

Environmental Restoration Operations

(Facility Function)

Sandia National Laboratories - SS

Sandia National Laboratories

(Site)

(Contractor)

Name: Robert Morrison**Title:** Operations Coordinator**Telephone No.:** (505) 844-7996

(Facility Manager/Designee)

Name: Rogers, Jessica**Title:** REGULATORY COMPLIANCE SPECIALIST**Telephone No.:** (505) 845-4727

(Originator/Transmitter)

Name: Corey Cruz**Date:** 11/23/2015

(Authorized Classifier (AC))

1. Occurrence Report Number: NA--SS-SNL-2000-2015-0009

Legacy Depleted Uranium (DU) Discovered on TTR Lakebed (subsurface)

2. Report Type and Date: NOTIFICATION/FINAL

	Date	Time
Notification:	12/18/2015	17:24 (ETZ)
Initial Update:	12/18/2015	17:24 (ETZ)
Latest Update:	12/18/2015	17:24 (ETZ)
Final:	12/18/2015	17:24 (ETZ)

3. Significance Category: 4**4. Division or Project:** 2000/Tonopah Test Range

5. Secretarial Office: NA - National Nuclear Security Administration

6. System, Bldg., or Equipment: Antelope Lake Bed/N Excavation Site

7. UCNI?: No

8. Plant Area: Remote Area

9. Date and Time Discovered: 11/16/2015 13:00 (MTZ)

10. Date and Time Categorized: 11/16/2015 13:00 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
11/16/2015	16:00 (MTZ)	DOE/SFO	DOE/SFO

13. Subject or Title of Occurrence:

Legacy Depleted Uranium (DU) Discovered on TTR Lakebed (subsurface)

14. Reporting Criteria:

6B(4) - Identification of onsite legacy radioactive contamination greater than 10 times the total contamination values in 10 CFR Part 835 Appendix D, exclusive of footnote 3 to Appendix D, and that is found outside of the following locations: areas routinely posted, controlled and monitored for contamination, and areas controlled in accordance with 10 CFR Section 835.1102(c), and, per Section 835.604(a), any non-posted area that is under the continual observation and control of an individual empowered to implement access and exposure control measures. For tritium, the reporting threshold is 10 times the removable contamination values in 10 CFR Part 835, Appendix D.

[Notes:

a) Legacy radioactive contamination is radioactive contamination resulting from historical operations that are unrelated to current activities.

b) This does not apply to contamination from residual radioactive material meeting applicable DOE-approved authorized limits.

c) The exclusion from reporting contamination in a Radiological Buffer Area applies only when the area has been established for a Contamination Area, High Contamination Area or Airborne Radioactivity Area and its exit requirements have adopted guidance from Article 338.2 of DOE-STD-1098-2008.

d) Legacy contamination identified through a routine radiological monitoring program, compliant with 10 CFR 835 may be summarized in a single short form report, for example, on a quarterly basis. Each instance of legacy contamination must be identified in the report and contain the details required for reporting in accordance with this Order.]

15. Description of Occurrence:

Soil from an excavated test was being surveyed and fresh DU fragments removed so the soil could be returned to the excavation hole. Sandia RCTs discovered two locations where highly oxidized DU was present just below the undisturbed lake bed surface. The oxidized DU was removed for disposal as radioactive waste. Approximately one cubic foot of oxidized DU mixed with soil was removed. Line Manager, Sr. Manager and Acting Director were all notified of this event.

16. Is Subcontractor Involved? No

17. Operating Conditions of Facility at Time of Occurrence:

Normal

18. Activity Category:

10 - Inspection/Monitoring

19. Immediate Actions Taken and Results:

DU was identified and immediately removed by Radiation Protection Personnel.

20. ISM:

2) Analyze the Hazards

21. Cause Code(s):

22. Description of Cause:

Critique/Fact Finding Performed: 10/30/15

23. Evaluation (by Facility Manager/Designee):

24. Is Further Evaluation Required?: No

25. Corrective Actions

(* = Date added/revised since final report was approved.)

1.	DU was immediately removed and prepared for disposition as hazardous waste in working with Radiation Protection personnel.		
	<table><tr><td>Target Completion Date: 11/16/2015</td><td>Completion Date: 11/16/2015</td></tr></table>	Target Completion Date: 11/16/2015	Completion Date: 11/16/2015
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26. Lessons Learned:

27. Similar Occurrence Report Numbers:

28. User-defined Field #1:

29. User-defined Field #2:

30. HQ Keyword(s):

31. HQ Summary:

32. DOE Facility Representative Input:

33. DOE Program Manager Input: