



UNITED STATES
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
ALBUQUERQUE OPERATIONS OFFICE
P.O. BOX 5400
ALBUQUERQUE, NEW MEXICO 87115

IA.02.4

APR 9 1975

P. C. Leahy, Chief, Real Estate & Maintenance Management Br., BRAO

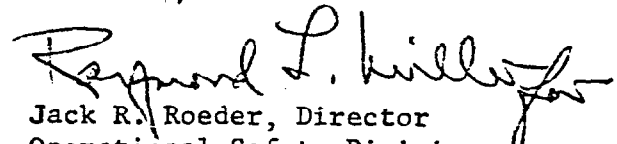
RADIOACTIVE CONTAMINATION CLEARANCE REPORT FOR THE BURLINGTON
ERDA FACILITY

The following information is furnished in response to your verbal request.

1. Measurements for ionizing radiation and radioactive contamination have been made in all Burlington ERDA Facility buildings where radioactive material was handled, stored or processed. No detectable radiation or radioactive contamination above natural background was detected. All buildings are free of radioactive contamination.
2. Radiation surveys have also been made of all potentially contaminated land areas at the Burlington ERDA Facility. Results of these surveys show that the only real property with radioactive contamination above a background level is the FS-12 area. FS-12 was used as a test area for explosives and depleted uranium (D38). No plutonium or other radioactive material of any type, except D38, was involved in the FS-12 operations.
3. The FS-12 area was decontaminated to a level that is deemed to be as low as practicable and the contaminated soil was shipped offsite to a licensed radioactive waste disposal contractor. However, low level uranium contamination still remains in this area as shown by the attached soil sample analysis results.
4. The FS-12 soil sample analysis results indicate that there is no health hazard to the public, or civilian, or military personnel in the area due to the remaining uranium contamination. It is also noted that no resuspension of radioactive material was found on air samples that were taken since decontamination, with the area being used for conventional explosive testing.



5. All Burlington ERDA Facility Buildings and real property may be returned to Army control, with only the FS-12 area noted as containing low level radioactive contamination from depleted uranium.


Jack R. Roeder, Director
Operational Safety Division

WOH:CED

Enclosure:
Memo, dtd. 9/20/74, 3 pgs.

20 September 1974

Contracting Officer
Contract No. W-49-010-AMC-62(A)
Burlington AEC Plant
Burlington, Iowa

Dear Sir:

Subject: Decontamination of FS-12

After the decontamination of FS-12 area, as agreed in letters dated 9 April 1974, R. L. Holmberg to Commanding Officer, and one dated 24 April 1974, J. F. Burke to D. R. Hensley, additional soil samples were obtained.

Samples were taken at a depth of 6-inches in the areas indicated on the attached drawing.

Air samples have been taken since the decontamination with the area being used for conventional explosives testing and no resuspension has been noted.

<u>Soil Samples</u>	<u>µg of U/gross of Soil</u>	<u>µCi/gm of Soil</u>
1. 15' from 22	350.0	1.55 X 10 ⁻⁴
2. 30' "	767.0	3.35 X 10 ⁻⁴
3. 45' "	76.7	3.35 X 10 ⁻⁵
4. 15' "	16.6	7.25 X 10 ⁻⁶
5. 35' "	23.3	1.02 X 10 ⁻⁵
6. 65' "	36.0	1.57 X 10 ⁻⁵
7. 18' "	330.0	1.44 X 10 ⁻⁴
8. 65' "	50.0	2.13 X 10 ⁻⁵
9. 15' "	473.0	2.07 X 10 ⁻⁴

Contracting Officer
Contract No. W-49-010-AMC-68(A)
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20 September 1974

<u>Soil Samples</u>	<u>ug of U/gram of Soil</u>	<u>uCi/cm of soil</u>
10. 65' from gw	26.7	1.17 X 10 ⁻⁵
11. 50' "	26.6	1.16 X 10 ⁻⁵
12. 30' "	5.5	2.4 X 10 ⁻⁶
13. Ground Zero	None	None

<u>Air Samples</u>	<u>uCi/ml</u>
After decontamination completed	0.0

The above data is furnished as requested. Should additional information be required please let us know.

Very truly yours,

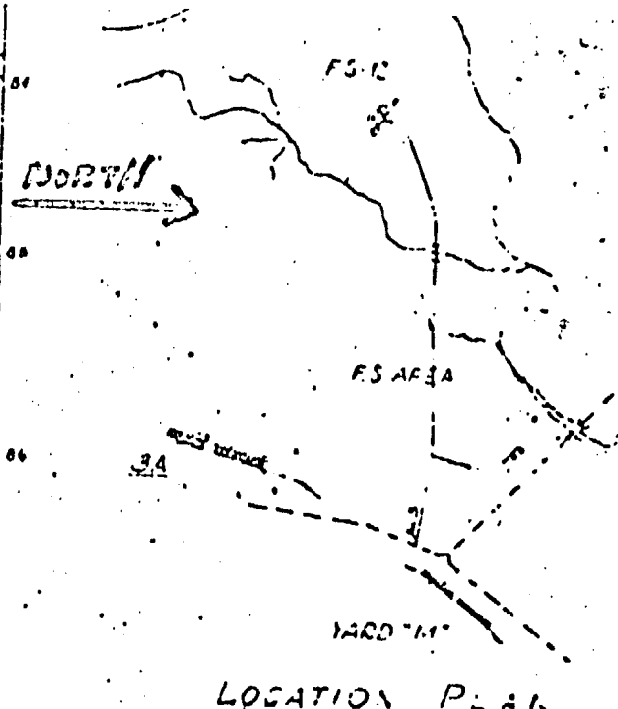
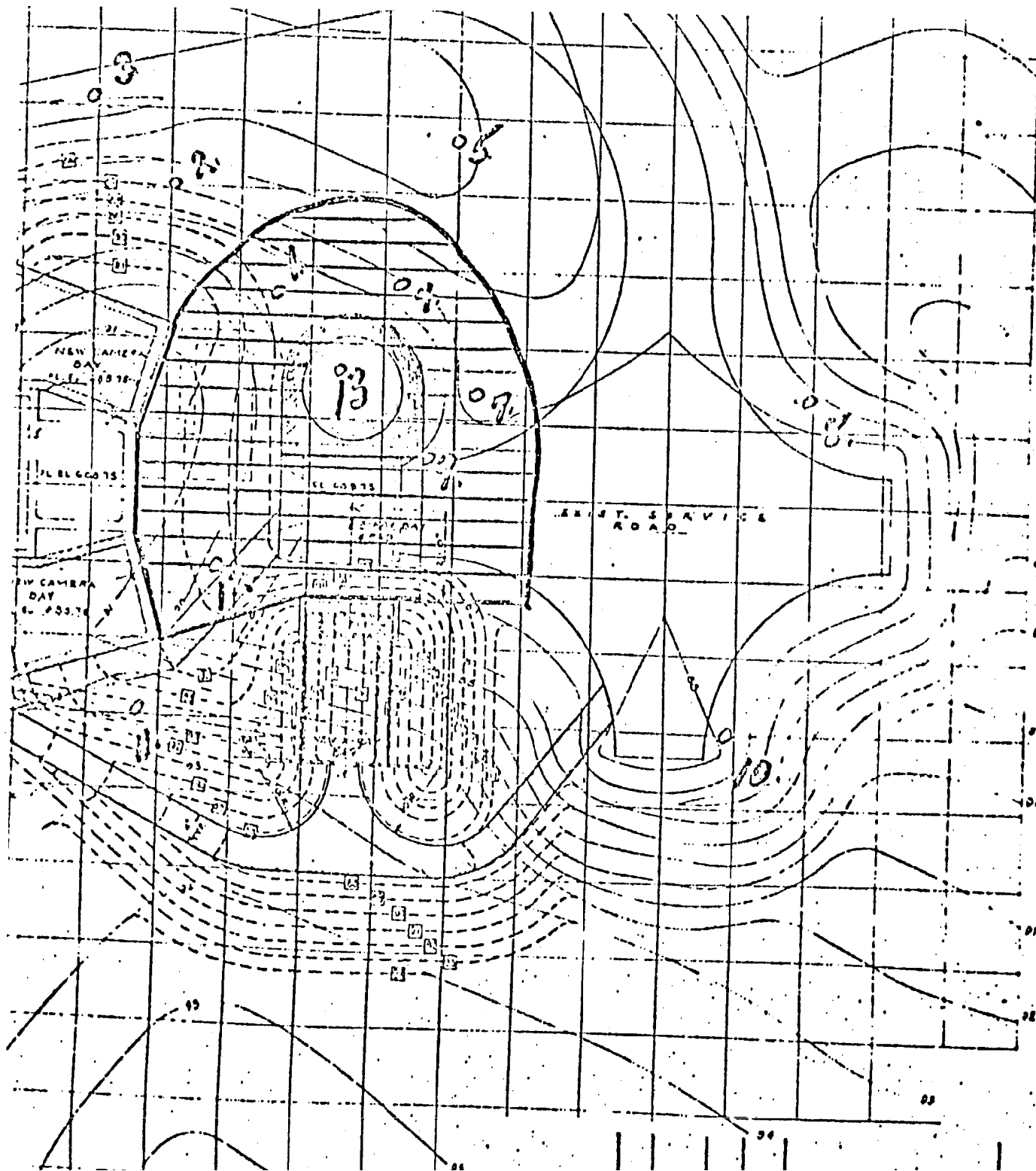
MASON & HANGER-SILAS MASON CO., INC.

R. L. Holmberg
Plant Manager

RLH/JLJ/JES/rm

Att. 1 a/s

bc: General File (2) w/o atts.
J. E. Jamison (2) w/1 cy. of att.
(RC) J. E. Shannan (1) w/att. ✓



LEGEND:

- - - - - EXISTING CONTOUR ELEVATIONS
- - - - - NEW CONTOUR ELEVATIONS
- - - - - NEW ADDITIONS & VALUES
- - - - - EXISTING ROAD ELEVATIONS

- SAMPLE LOCATIONS
- - PIT - CLEANED TO A DEPTH OF 15'
- - 1-2 INCHES OF TOP SOIL REMOVED

Mason & Slinger-Plus, Inc.
ENGINEERS
 OPERATORS OF
 IOWA ARMY AMMUNITION
DEPARTMENT