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95-051

Department of Energy

Oak Ridge Operations
P.O. Box 2001
Oak Ridge, Tennessee 37831—

February 6, 1995

Alpha Fowler Bryan, M.D., Chairperson
and Members of the St. Louis
Site Remediation Task Force
c/o Mr. James J. Dwyer, Facilitator
4515 Maryland Avenue
St. Louis, Missouri 63108

Dear Dr. Bryan:

ST. LOUIS SITE - FUSRAP PLANS FOR REMEDIATION AT SLDS PLANT 10 AND LATTY AVENUE, AND FY-95 BUDGET ALLOCATION

At the last St. Louis Site Remediation Task Force Meeting, DOE was asked to provide background information on the scope of remediation activities planned for later this Spring, as well as a breakdown of the FY-95 budget for St. Louis FUSRAP activities. Following is the requested information.

SLDS Plant 10 Remediation

During the Senior Stakeholders' Summit held last August, Thomas Grumbly, Assistant Secretary of Energy, expressed an interest and committed to focused remediation action at the St. Louis Downtown Site (SLDS) during FY-95. Following discussion between representatives of Mallinckrodt and DOE, Mallinckrodt proposed that DOE perform soil remediation in a portion of SLDS known as Plant 10. The Mallinckrodt proposal includes the removal of buildings on the Plant 10 site by Mallinckrodt, followed by the remediation of approximately 6,000 cubic yards of radioactively contaminated soils in Plant 10 by DOE. The objective of the Plant 10 remediation is to free the Plant 10 area (the entire city block) for future industrial development. Mallinckrodt has stated that removal of the contamination, which now restricts plant development and expansion, will also benefit the community by the potential for increased employment and tax revenue which would accompany this development.

For the past three months, Mallinckrodt and FUSRAP engineers have been working toward undertaking this cleanup during FY-95. The current plan (described in greater detail in Enclosure 1) calls for this remediation to begin later this Spring. DOE currently has \$4.2M in FY-95 funding allocated for this remediation activity; however, the budget projection for this task is \$5.2M. DOE is evaluating options for the additional funding requirement.

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Latty Avenue Vicinity Property Remediation

FUSRAP is also evaluating a removal action in North County along Latty Avenue. During Spring 1994, the tenant at 9060 Latty Avenue undertook an oil-contaminated soil remediation effort that resulted in the construction of a storage pile, containing soil that is contaminated with both radioactivity and oil, on that property. The tenant had arranged for the remediation and removal of oil-contaminated soils on the property; however, soils that were contaminated with both oil and radioactivity were placed into an onsite pile that contains approximately 2,500 cubic yards of material. The pile was covered with a sheet of plastic; however, the cover has since deteriorated and currently provides little protection from erosion.

In addition to the environmental benefits derived from remediation of this pile of contaminated soil, it also allows DOE to meet a commitment for the disposal of a minimum quantity of 11e.(2) waste material during fiscal 1995. In order to ensure the availability of an 11e.(2) waste disposal cell, FUSRAP was one of several customers to commit to disposal of material in the Envirocare of Utah waste cell (the only commercial cell of this type in the U.S.). Based on the commitment from its customers, Envirocare constructed and opened this waste cell.

FUSRAP engineers are currently preparing the design to excavate the pile and package it for shipping and disposal -- a straightforward excavation task with little complexity. DOE has allocated \$3.0M for this removal action.

FY-95 Budget Breakdown

During the August summit meeting, Secretary Grumbly committed to a budget of \$15 million for St. Louis activities in FY-95. The following is the breakdown of how the budget is allocated:

SLAPS VP Cleanup (Fall)	\$ 1.9M
Latty Avenue Cleanup	\$ 3.0M
SLAPS Stabilization	\$ 0.9M
SLDS Plant 10 Cleanup	\$ 4.2M
CERCLA Requirements	\$ 1.3M
Soil Treatability Studies	\$ 0.7M
Site Operations/Monitoring	\$ 1.4M
Other	\$ 1.6M
Total	\$15.0M

SLAPS VP Breakdown of Actual Costs

The task force has also asked for a breakdown of the actual costs for performing the SLAPS vicinity property cleanup this past Fall. The breakdown of costs into the major component pieces is:

Engineering/Design	\$ 170K
Excavation/Field Construction	\$ 750K
Shipping/Utah Disposal	\$ 900K
Post-RA Survey/Documentation	\$ 80K
Total	\$ 1.9M

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Should you need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "David G. Adler", with a stylized, flowing script.

David G. Adler, Site Manager
Former Sites Restoration Division

Enclosure

Enclosure

DESCRIPTION OF SLDS PLANT 10 REMEDIATION

Background

During the 1940s and early 1950s, the area currently known as Plant 10 (City Block 1201) was known as Plant 4. Plant 4 included several buildings that were used in the production of uranium metal for the federal government. The buildings used for these purposes were decommissioned and demolished.

Only one of the original Plant 4 buildings, Building 80, still remains as part of today's Plant 10. However, Building 80 was never used in uranium processing. There are two other buildings in Plant 10 -- both constructed after the decommissioning of the uranium processing activities.

Based on characterization performed in the late 1980s, areas of radioactive contamination were identified in Plant 10 (see attached figure). DOE plans to perform additional characterization to confirm the areas requiring remediation.

Plant 10 Remediation

In order to make the contaminated soil accessible for remediation, Mallinckrodt has committed to decommissioning and dismantling the existing buildings in Plant 10. A small amount of roofing material has been identified as being contaminated on the roof of Building 80; this material will be turned over to FUSRAP for disposal during the building dismantlement.

Once the buildings have been removed, FUSRAP will begin excavation of the contaminated soil. Based on current characterization data, the maximum depth of contaminated soil is approximately 6-8 feet. The volume of contaminated soil is estimated to be 6,000 cubic yards. It is planned that the soil will be disposed at Envirocare of Utah.

FUSRAP is currently evaluating the packaging and disposal options for this material. The experience during the North County cleanups this past Fall indicated that there is a national shortage of the intermodal containers used for that cleanup. Given that the Plant 10 remediation involves almost five times as much soil, DOE expects that other packaging and shipping options will have to be considered. Options currently under consideration include the use of rail gondola cars and long-haul dump trucks.

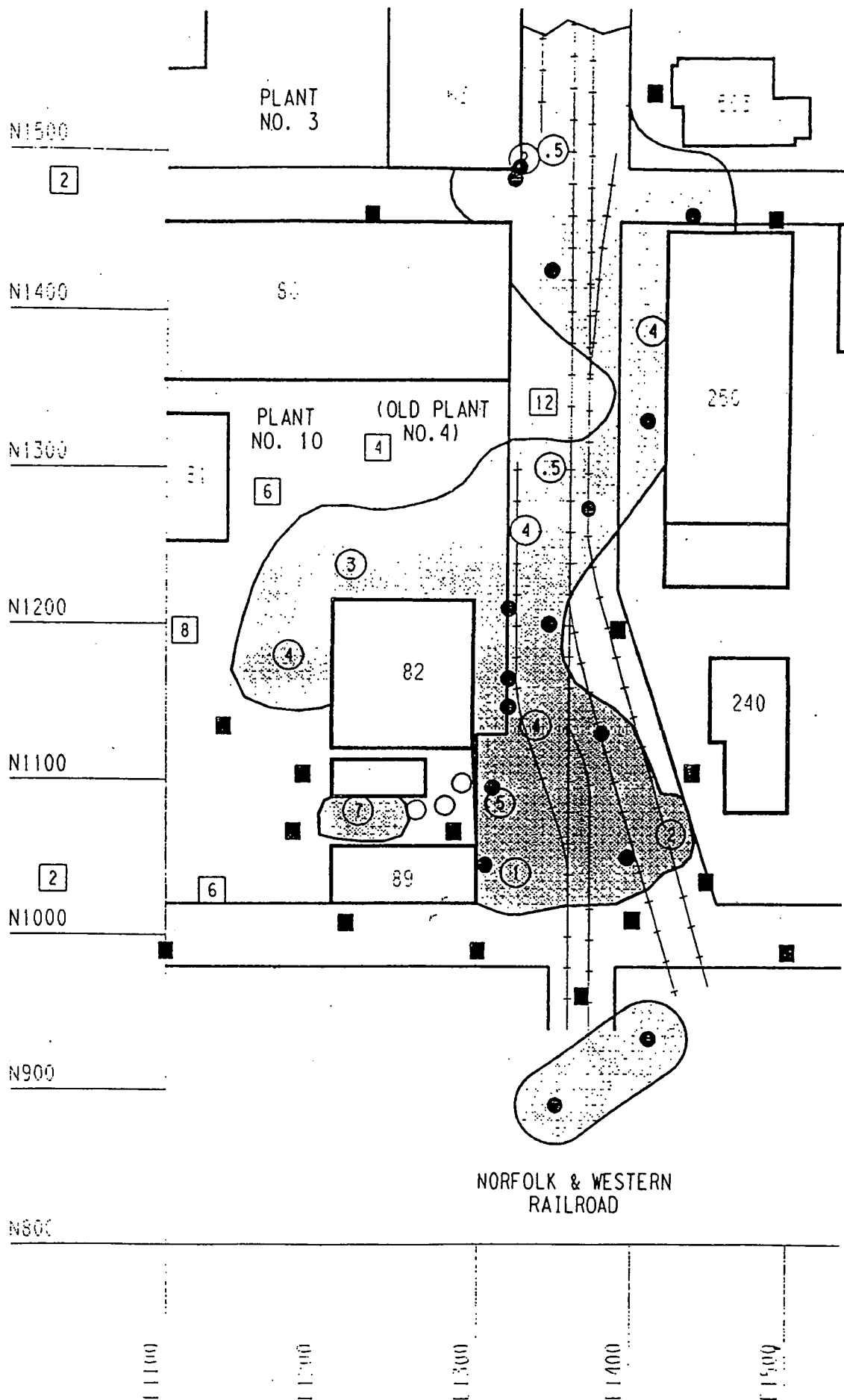


FIGURE: Plant 10 Area (SW corner of SLDS)

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Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for the St. Louis Site, Missouri



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