

**MALLINCKRODT  
CHEMICAL**SLDS  
Administrative  
Record  
9808161057

October 10, 1994

Mr. David G. Adler  
Site Manager  
U.S. Department of Energy  
Oak Ridge Operations Office  
Post Office Box 2001  
Oak Ridge, Tennessee 37831-8723

Mallinckrodt Chemical, Inc.  
16305 Swingley Ridge Drive  
Chesterfield, Missouri 63017-1777  
Telephone (314) 530-2000

Re: St. Louis Downtown Site, FY95 Actions

Dear Mr. Adler:

At the August 8, 1994 St. Louis Sites Senior Stakeholders Meeting, Secretary Grumbly stated DOE's interest in performing focused remedial actions during FY95 at the St. Louis Downtown Site (SLDS) which will allow for continued economic development. As owner of the SLDS, Mallinckrodt is pleased and encouraged by DOE's commitment to initiate site remediation.

Introduction

Mallinckrodt has evaluated a number of remediation and soil management scenarios. Within the guidelines established by Mr. Grumbly, we believe that DOE funds will be put to best use by remediating soil contamination in Plant 10 (former Plant 4) and upgrading the former MED/AEC buildings 704, 705, 706, and 707 for additional temporary storage of excavated soils. This recommendation is described in detail below.

Plant 7 Modifications for Additional Debris Storage

Mallinckrodt recommends that buildings 704, 705, 706 and 707 be modified and used for interim storage of the rubble and debris generated during plant 10 remediation. It appears that maximum use of building volume will be achieved by constructing internal reinforced concrete walls which will "confine" bulk piles. In this manner, approximately 7,200 cubic yards of soil can be stored. Prior to use, minor modifications such as removal of unused piping and pressure grouting floors are recommended. Mallinckrodt will make these buildings available immediately to DOE for modification.

In the event that additional storage is required, Mallinckrodt recommends that DOE relocate its site administration and support offices located in the north end of Building 116 and use the first and second floors of Building 116 for storage of soil and debris in supersacks and boxes.

Mr. David G. Adler  
October 10, 1994  
Page 2

### Plant 10 Building Demolition

Mallinckrodt will remove the above-ground structures currently occupying Plant 10. None of the existing structures were used during MED/AEC processing operations. Building 80 is a three-story masonry warehouse constructed in 1905. Mallinckrodt has identified the presence of uranium residues on the Building 80 roof. Building 81 is a single story metal building built in 1968. Some of the Plant 4 uranium processing buildings were previously located in the area now occupied by Building 81. Building 82 is a single story masonry warehouse constructed by Mallinckrodt in 1955. This building was erected in an area used as a transportation corridor between Plant 4 and the rest of the Mallinckrodt facility. DOE characterization data indicate soil contamination on all sides of Building 82 at depths of up to seven feet.

Mallinckrodt will demolish these buildings and remove rubble from the site. Contaminated materials such as portions of the Building 80 roof will be segregated for management and storage by DOE. However, Mallinckrodt will perform the demolition activity of these three buildings at its cost.

### Additional Plant 10 Characterization

Mallinckrodt has reviewed the results of Plant 10 sampling activities performed by DOE. Mallinckrodt is concerned that those activities may not have fully addressed the areas on the west side of the property which were previously occupied by the old Plant 4 uranium processing buildings. Mallinckrodt recommends that DOE perform additional characterization and sampling in this area to fully define the extent of subsurface contamination in Plant 10.

### Plant 10 Remediation

With the above-ground structures removed, the Plant 10 area will be available for remediation by DOE. Based on conversations with Mr. Palau of Bechtel National, Inc., it is estimated that this area contains approximately 5,500 cubic yards of contaminated soil. This volume can be stored temporarily in the modified Buildings 704, 705, 706 and 707 discussed above. This provides an opportunity to remediate a discrete area and provides for interim storage on site.

### Benefits

Remediation of Plant 10 by DOE, combined with Mallinckrodt actions to demolish buildings 80, 81 and 82, will free the entire Plant 10 area (city block 1201) for industrial development. This will benefit Mallinckrodt by removing contamination which now restricts plant development and expansion. The community will benefit by the potential for increased

Mr. David G. Adler  
October 10, 1994  
Page 3

employment and tax revenue which could accompany this development. DOE will benefit by completing a discrete remedial action which will release property for beneficial use. DOE is further benefitted by the ability to store excavated soils and debris on-site, avoiding the significant expenditures required for out-of-state disposal.

#### Estimate Cost And Schedule

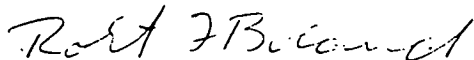
Mallinckrodt has developed cost estimates for preparing Buildings 704, 705, 706, and 707 for interim storage of residue. Based on soil volume estimates and generalized excavation and on-site management costs provided by Mr. Palau of Bechtel National Inc., Mallinckrodt has developed cost estimates for the excavation and storage of Plant 10 soils. Mallinckrodt has developed a project-grade cost estimate for demolition and disposal of debris for Buildings 80, 81, and 82. These costs are summarized in Attachment 1. Attachment 2 provides a preliminary schedule. Mallinckrodt considers completion of this activity in FY95 feasible if initiated promptly.

#### Conclusion

Mallinckrodt is committed to working with DOE toward an ultimate resolution of the problems associated with the MED/AEC residues at the SLDS. In the past, Mallinckrodt has cooperated fully with DOE site characterization activities. Mallinckrodt and DOE negotiated agreements to provide DOE access for this work. Mallinckrodt provided Building 116 to DOE for use as an office and staging area during characterization activity. DOE now uses this building for the interim storage of radioactive soils and debris. Mallinckrodt also participated in the March 14, 1994 Environmental Management Advisory Board tour of the St. Louis Site and in the August 8, 1994 Senior Stakeholder meeting. We are also represented on the City of St. Louis Radioactive Waste Advisory Committee and St. Louis County Radioactive and Hazardous Waste Oversight Commission. Mallinckrodt will continue this relationship with DOE.

We look forward to discussing this proposal in detail with you. We are ready to proceed. Please contact me at 314-530-2170 and we can discuss any questions you may have at this time and schedule focused and detailed discussions between our technical people.

Sincerely,



Robert F. Boland, P.E.  
Environmental Program Manager

cc: Dr. Alpha Fowler Bryan  
Ms. Anna Ginsberg

ATTACHMENT 1**SUMMARY OF PLANT 10 REMEDIATION COSTS  
(\$K)**MALLINCKRODT COSTS

Characterization, Demolition and Removal of Existing Structures	<u>\$1,300.00</u>
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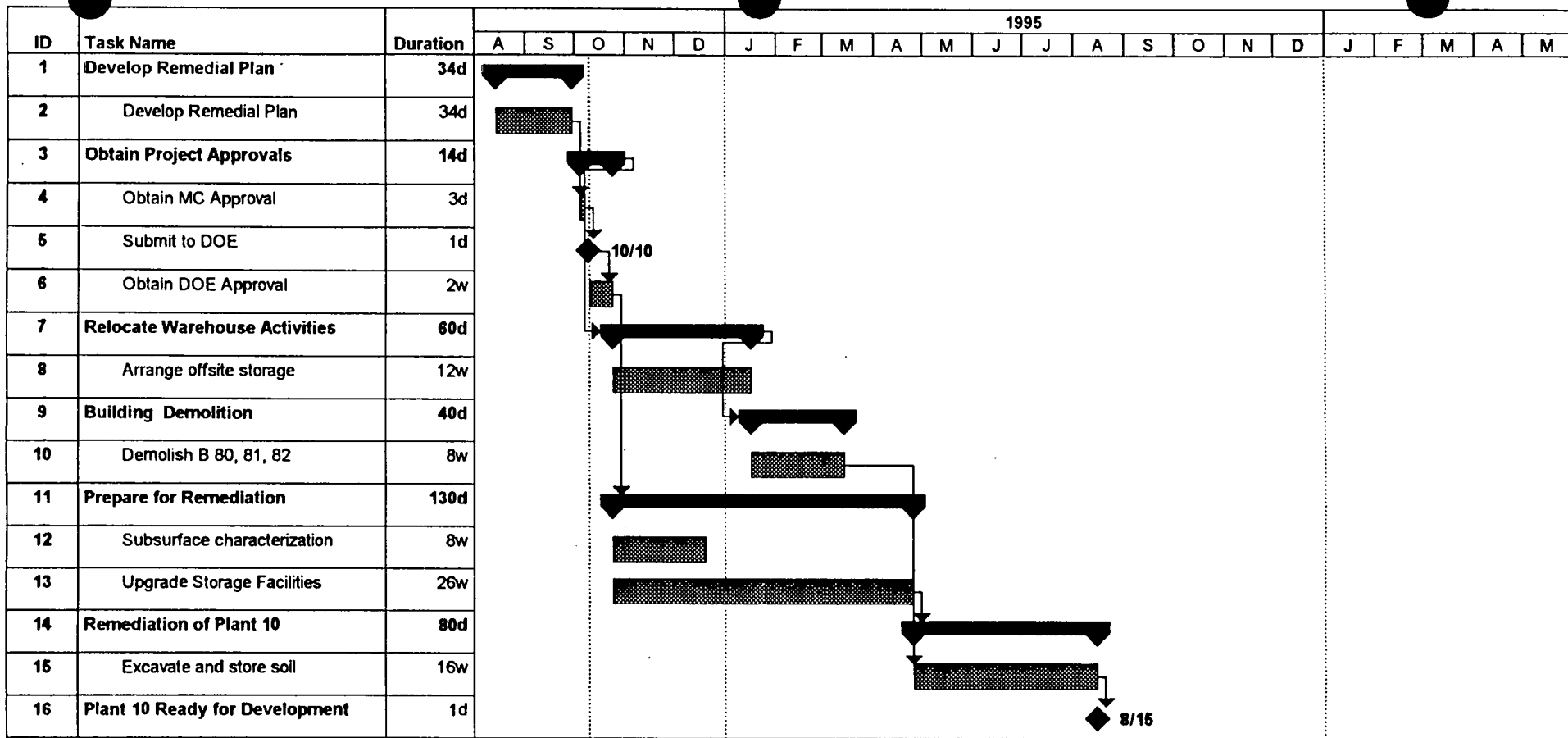
Subtotal:	\$1,300.00
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DOE COSTS

Upgrading of Storage Facilities	\$1,200.00
Additional Characterization	100.00
Plant 10 Remediation	<u>1,700.00</u>

Subtotal:	\$3,000.00
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TOTAL:	<u>\$4,300.00</u>
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Project: Downtown Site FY95 Actions  
Date: 10/10/94

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress