PROGRESS REPORT
TECHNICAL SERVICES DEPT. – W.G. KRUMMRICH PLANT

JOB NO.	REPORT NO.	DATE
91370:3363	1	4 / 6 / 65

W.G. KRUMMRICH PLANT		RESEARCH	GENERAL OFFICE	OTHERS
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(CONFIDENTIAL)

TITLE: Dept. 246 - Aroclor - Project 1046
Install Permanent Product Filtration at Aroclor Storage Tanks.

PERSONNEL: D. R. Middleton, M. Magnetti (J. R. Savage)

PROBLEM: A small amount of earth collects in the new finished product storage tanks and without final filtration it finds its way to our customers, resulting in customer complaints.

SUMMARY:

Two 316 S.S. Alsop Filters will be installed on this project. One filter will serve the two north storage tanks, #9 & #11 for 1242 Aroclor. The other will serve the south storage tank, #10 for 1254 Aroclor. These filters will be duplicates of the present filter which is temporarily in use for the two north storage tanks. This type of filter has proven very satisfactory for the service.

Estimate for project was completed 11/25/64.

Work Proposal was issued on 12/7/64.

Project was approved on 1/11/65 for $6000 (all capital).

All engineering work is complete and complete design package was issued on 4/6/65.

Construction is scheduled for completion by June 1, 1965.

M. Magnetti
M. Magnetti
Technical Services Department

DSW 311673

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STLCOPCB4071659

Details

Background

Recently three new aluminum storage tanks were added to the Aroclor Dept. Filters were not included in the projects for the three new storage tanks. However, connections for filters were provided at the three storage tank pump discharges for future filter installation if needed. Customer complaints of a slight amount of sediment in the bottom of tank cars, identified as earth, made it necessary to provide final filtration from the storage tanks before shipping. This project covers the installation of the filters, piping, etc.

Project Description

This project covers installation of two Alsop Model No. PAK-12S-4, 316 S.S. filters, extension to concrete pump pad, 2" 316 S.S. piping and steam tracing and insulation.

One filter will serve the two north storage tanks, #9 and #11 for 1242 Aroclor. Piping will provide circulation of filtered Aroclor back into tanks for sampling. Also a pipe connection will provide for pumping the Aroclor from one tank to the other after being filtered. The other filter will serve the south storage tank #10, for 1254 Aroclor. Piping will be the same as for #9 and #11 storage tanks except pipe connections will be provided for a future storage tank and pump.

These Alsop Filters will be duplicates of the present filter which was borrowed from TPP service and temporarily installed at #9 and #11 storage tanks and has proven very satisfactory for the service. These filters have 6000 square inches of filtering surface and a sludge volume of 840 cubic inches. The filtering surface is about 4 times that of a Cuno or a Fulflo unit of similar size and the filtering rate is about double. At present, in the temporary filter, No. 96, 0-3 micron asbestos filter discs are being used with excellent results.

The temporary Alsop Filter will be returned to Dept. E-254 when the permanent filters are installed.

List of Drawings

Dwg. No.	Description
TS-D-5882	Location Plan & Foundations for Alsop Filters (Nos. 15-0633 and 15-0634)
TS-D-5883	Piping Plan & Elevation for Alsop Filters (Nos. 15-0633 and 15-0634)
	Dimension sheet for Model No. PAK 12S-4 316 S.S. Alsop Filter

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Safety

No additional safety hazard will be introduced in the Department by this project.

Procurement

The two Alsop Filters were placed on order 3/12/65. The supplier has promised shipment of filters during week of 4/5/65 from Milldale, Conn. Price of filters are $700.00 each F.O.B. Milldale, Conn.

Present Status

All engineering work is complete. All prints, material list and construction write-up were issued on 4/6/65.

Present Construction Schedule

Shop fabrication to start in April and field construction in May. Completion of project by June 1, 1965.

Future Work

Follow installation of project and provide assistance if required for placing filters in service.

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Technical Services Department

DSW 311675

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