



**Request For Capital
Expenditures/Retirements**

DIVISION OR COMPANY

Organic Chemicals Division

LOCATION

Chicago Plant

J.O. CONTROL POINT

097

JOB TITLE

Install Absolute Effluent Filter

REPORTING CLASSIFICATION

D 3

DATE APPROVED

7/12/78

JOB ORDER NO.

OC-4155

SUMMARY OF AMOUNTS

DESCRIPTION	LOCAL CURRENCY	U.S. DOLLARS
ESTIMATED PROJECT COST		\$3600.
DISMANTLEMENT EXPENSE		
TRANSFER EQUIPMENT		
GROSS AMOUNT FOR APPROVAL		3600
LESS TRANSFER EQUIPMENT		
LESS SALVAGE OR TRADE-IN ALLOWANCE		
NET CASH REQUIRED (GOF-3027)		\$3600

RETIREMENT DATA

ECONOMICS

as called for in General Procedure Memo #3
Attachment C. (Attach calculations)

REVISION DETAIL (GROSS AMOUNTS)

	AMOUNT		REV.#	DATE	AMOUNT	CUM. AUTHORIZATION
COST		ECONOMICS PERIOD	1			
DISMANTLEMENT		NET SALES	2			
LESS SALVAGE		NAT (PROFIT/SAVINGS)	3			
		TOTAL INVESTMENT	4			
		% ROI (ON TOTAL INVEST.)	5			
		INTERNAL RATE OF RETURN	6			
TOTAL - CHARGE RESERVE		PAYOUT OF NEW FIXED CAPITAL	7			

DESCRIPTION AND REASONS REQUIRED

Funds of ----- \$3600
are requested to purchase and install an absolute filter for
the effluent removal system.

SUMMARY OF ESTIMATED COST - Details on GOF-3027		ESTIMATE NO.	STARTING DATE	COMPLETION DATE	
ITEM NO.	DESCRIPTION	MATERIAL	LABOR	ENGINEERING	TOTAL
	Per attached estimate	2130	1310	160	3600
	NET CASH REQUIRED	2130	1310	160	3600
ACCOUNTING TREATMENT		APPROVALS			
ITEM NO.	DEPR. RATE	NAME		DATE	
		PROJECT SPONSOR			
		<i>[Signature]</i>		7/3/78	
		<i>[Signature]</i>		7/6/78	
		<i>[Signature]</i>		7/12/78	
		<i>[Signature]</i>		7/12/78	
ACCOUNTING TREATMENT / ECONOMICS APPROVED BY DIV. CONTROLLER (CHECK BOXES)					
☒ POST AUDIT PERIOD	☐ POST AUDIT DUE DATE	DATE 7/13/78			
DISTRIBUTION		DIVISION PRESIDENT/DIRECTOR			
		CORPORATE OFFICER			

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DESCRIPTION AND REASONS REQUIRED

A. Proposed Work and Cost

Funds of -----\$3600
are requested to purchase and install two polishing filters,
in series, in the effluent filtration system.

B. Present Situation

The existing Filtronics effluent filtration system
removes all lead down to 3 microns which results in
a lead concentration in the effluent of from 0.2 to
1.2 ppm which does not satisfy the Metropolitan
Sanitary District of Greater Chicago specification of
0.5 ppm Pb maximum.

The M.S.D.G.C. hearing officers strongly request that
the plant effluent be brought into compliance.

C. Justification

In order to continue operating the Chicago Plant the
M.S.D.G.C. limit of lead concentration in the effluent
must be satisfied.

Repeated sampling has proved that to continually
satisfy the M.S.D.G.C. regulations, an absolute
polishing filter must be installed.

The attached data shows that the proposed system will
reduce the lead concentrate below 0.5ppm.

N14469.01

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D. Commercial Factors

This order supports a 1978 plant budget as follows:

First five (5) months of 1978

<u>Sales - Pounds</u>	<u>Sales - Dollars</u>	<u>Profit on Sales</u>
3,132,000	\$1,548,000	\$385,000 (24.8%)

Budget for 1978

<u>Sales - Pounds</u>	<u>Sales - Dollars</u>	<u>Profit on Sales</u>
7,950,000	\$3,985,000	\$1,071,000 (26.8%)

E. Details of Proposal

Two Serfilco filter chambers will be connected in series and installed between the present Electromedia II filter and the city sewer. The first chamber will contain filter tubes of 0.45 micron nominal retention and the second will contain filter tubes of 0.35 micron absolute retention.

F. Production Factors

This proposal will not alter production quality or production rates. Operating costs are estimated at \$574. annually.

G. Contingent Future Commitments

This proposal will not require additional funds to complete.

H. Alternatives Considered

There are no alternatives.

I. Risks

No operating risks are involved.

J. Concise Summary

The addition of the filter chambers after the primary filter will ensure compliance with the effluent discharge requirements of the Metropolitan Sanitary District of Greater Chicago.



Test Data

Test No.	Pit	Filter	Test Filter	Size	Average
1	8.4	1.2	0.2	.35 A	0.20
2	1.3	0.5	0.1	.35	
3	2.6	1.4	0.4	.35	
4	1.3	0.2	0.2	.35	
5	2.3	0.5	0.1	.35	
6	6.2	1.0	0.9	.45 N	0.53
7	2.9	0.5	0.6	.45	
8	16.5	1.0	0.5	.45	
9	1.5	1.0	0.7	.45	
10	0.6	0.3	0.2	.45	
11	0.4	0.2	0.3	.45	

All results above, except size are in parts per million of lead. Size is micron openings in either absolute or nominal.

DETAIL SHEET

SHEET NO.		JOB ORDER NO.		DATE	
				5/19/78	
COMPANY			LOCATION		
American Cyanamid Company			Chicago, Illinois		
ITEM OR CODE NO.	DESCRIPTION	EQUIPMENT OR MATERIALS	LABOR	ENG. MECH. SVC.	TOTAL
1	Filter chambers	556.			556.
2	Filter tubes	574			574
3	Plumbing	900	1310		2210
4	Engineering			160	160
5	Epoxy paint	100			100
		2130	1310	160	3600