

Monsanto

CORPORATE ENGINEERING DEPARTMENT
COST ENGINEERING SECTION

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CEA NUMBER	7817
CE ESTIMATE NUMBER	7817-01.0
DATE	4/16/75
COST ENGINEER	C. Wittekind

ESTIMATE COMMENTS AND QUALIFICATIONS

PROJECT TITLE Mfg. of Monochlorobiphenyl in Aroclor Dept.

LOCATION Krummrich Plant COMPANY MIC

Estimate Description

This Evaluation Estimate is made to show the cost to increase the capabilities of the Aroclor Department to manufacture both Aroclor 1016 and Monochlorobiphenyl in the same equipment train via block operations.

Removal, modification, and replacement of equipment and systems, as well as new capital equipment are required. New, revised and relocated pressure, and electronic instrumentation is required.

Modification of the Column (I301) is considered to be performed under a Lump Sum contract.

Information Sources

Preliminary Plant Project Scope for manufacture of Monochlorobiphenyl in the Aroclor Department at 8M Lb./Yr. rate, by K. E. Boucher dated 24 March 1975, and Drawings TS-D-12287, 88, 89, 90, 91, 92, 93, 94 and 12338.

Capital Directs

Capital directs were estimated using Cost Engineering Manuals and vendor catalogs.

Contingency

A 10% Contingency is included in this estimate.

Cost Escalation Allowance

Escalation has been included for the last quarter 1975 time frame. A 1.3 Labor Index has been included for construction and installation labor.

Estimate Accuracy

Based upon present information, this estimate is believed accurate within +15 to -15 percent.

ESTIMATE REVIEW HELD 4/16/75

REVIEWED BY A. J. Romer
A. J. Romer

CE 221 MAY 1975

MONS 021789