Monsanto

FROM (NAME & LOCATION): W. B. Howard - General Offices

DATE: August 29, 1967

CC: R. E. Doerr
R. E. Howard
J. L. Mathews
P. K. Ward - Anniston
S&PP Project File
S&PP Location File

SUBJECT: PROJECT LOSS PREVENTION REPORT 67-64

REFERENCE: CEA-1430

TO: Mr. R. S. Yates (Project Manager)

COPIES TO THOSE PRESENT

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DATE AND PLACE OF MEETING August 15, 1967, Creve Coeur, Missouri.

CEA-1430 Increase Liquid Aroclors Capacity, Anniston Plant, Anniston, Alabama.

This project is for a new tank farm, mixing area, flaking area, and drumming area. Capital will be approximately $1.6M; completion target is January, 1969. Although no additional capacity is claimed under this project, the operation will be changed from three shift, seven day, to one shift, seven day.

A flaker will be added for solid aroclors and another flaker for biphenyl. Exhaust systems will be provided to remove fumes from the flakers.

PROCESS

1. Mix Tank Solutions of aroclors are prepared in toluene and xylene in a mix tank. The toluene and xylene used for this purpose are pumped from drums directly into the 2,000 gallon mix tank. This tank is jacketed for steam and for water. The tank will be nitrogen padded.

2. Biphenyl Surge Tank The flash point of biphenyl is 235°F. The biphenyl surge tank in the flaking area will be heated, but only to approximately 80°C. The biphenyl will thus be below the flash point.

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3. Scale-up of Flaker Size The new flakers will be of significantly larger size than the present flakers. The aroclors are expected to perform on the new flakers as well as, or better than, they do on the present flakers. The biphenyl gives some problems in flaking with the present flakers, and some of these problems may continue with the new flakers. Although there is a scale-up factor with the new flakers, no significant scale-up problems are anticipated.

FIRE PROTECTION A 120' x 60' x 1 story metal siding on steel frame prefabricated type building will be erected north of Bldg. 27 for flaking and drumming of aroclors.

It is recommended that this building be provided with an ordinary hazard wet pipe system of automatic sprinklers. The system should be supplied from a feed connected to the fire main in Fifth Street with a post indicator type shut-off valve located at least 25 ft. from the proposed building.

LOSS EXPOSURE The maximum probable loss is anticipated to occur from the scarring of an aroclor flaker roll. Re-surfacing of the roll would require about one month. On this basis the BI loss would be approximately $100M. Equipment repair costs for the resurfacing would be approximately $4,000.

LOSS PREVENTION GUIDE Attached to R. S. Yates' copy of this report is a copy of Form G-1425, Loss Prevention Review Guide, which can be used as a safety check list for this project.

LOSS PREVENTION REVIEW BY PLANT The S&PP Branch of CED does not plan a complete review of design prints for safety provisions. S&PP requests plant personnel, including plant safety personnel, to follow the development of design prints and to check the progress of construction with particular emphasis on personnel safety and loss prevention.

SAFETY MANAGER R. J. Green will be Safety Manager for this project. Please contact him for reviews during the design phase of this project.

R. J. Green

R. J. Green

W. B. Howard

W. B. Howard

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