Monsanto

FROM ANNISTON, ALABAMA

DATE April 24, 1968

SUBJECT CEA 1430 MINUTES OF 4/19/68 REVIEW MEETING

REFERENCE This Copy for

TO H. L. Williams
W. F. Taffee
V. R. Haupt
E. E. Smith
J. C. Landwehr

cc: R. A. Haydel
R. W. Peterson - G. O.
H. D. Gabelman - G. O.

CEA 1430 Drumming, Flaking and Packaging Area Flow Sheets and Tie-In Proposals were discussed at a meeting held on April 19, 1968. This meeting was attended by W. F. Taffee, H. L. Williams, E. E. Smith, V. R. Haupt and V. T. Langdon. R. A. Haydel was invited but was unable to attend. The comments of this meeting were as follows:

A. Proposed Tank Farm Tie-In Sequence (Memo RWP to WFT dated April 10, 1968)

1) We must be able to drum all products now being drummed in Bldg. 27 at all times until operations begin in the new drumming area. This may require temporary tie-in of storage tank pumps in the New Tank Farm to the Drumming Area in Bldg. 27. We must also be able to get Liquid Aroclors to existing blend tanks and to load rail cars with Liquid Aroclors and blends at all times. We need to maintain at least the existing level of storage (6 tanks) for flexibility during change over. Unless provisions are made to accomplish these operations, the new Tank Farm can be used for 1242 only until the new drumming facilities begin operation.

2) Since current needs are greater for 1242 than for 1254, it is desirable to utilize one of 27,000 gallon tanks intended for 1254 only.We feel that this could be accomplished at minimum cost by placing valved or blanked Tees in the inlet line to I-707 (Finished Goods Storage Tank) 1-701-2-A11P-3", the suction line of I-713 (Transfer Pump) 1 1/2-140-60 and inlet line to I-705 (Finished Goods Storage Tank) 1-703-1-A11P-3". This would include modifications to Dwg. 1430-9-D-826.08-D-2-1, Dwg. 1430-9-D-826.08-D-3-1 and the necessary Spool Dwgs.

3) Details of Tie-In Schedule will be reviewed in a separate memo.

4) The new pump which has been ordered to increase capacity of the Porocel Column must be installed before Step #10 of the proposed Tie-In can be undertaken (this is an Anniston Plant responsibility).

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B. Solid Aroclor Flaking, Bagging & Drumming
(See marked up print - Dwg. 1430-9-D-826.08-D-8-A

1) A by-pass line and valves between the feed line to I-810 (Aroclor Receiver) and the feed line to I-811 (Flaker Feed Tank) is necessary in order to by-pass I-810.

2) It is necessary to drum 4465, 5442 and Biphenyl by means of a casting station (see Point #3) located off of the pump discharge of 1-831 (Aroclor Pump).

3) More information is needed on the configuration of stations for casting Aroclor into drums. Information concerning equipment, and type of equipment, should be furnished us regarding the following considerations:
   a) Safe handling of hot molten liquid into different sized drums.
   b) Handling of the drums until liquid cools and solidifies.
   c) Handling of the empty drums.
   d) Weighing the drums (2 sizes).
   e) Venting the fumes.

4) Additional valves should be installed to allow 5460 to be recycled to the still or blow tank (5460 run in as cleanout after running 5060). One valve would be installed in the discharge line from I-837 (Aroclor transfer pump) 1-837-1-X91-2". The other valve would be installed in the line (which is now a spool piece) that connects 1-831-2-X91-2" with 1-837-1-X91-2".

5) Recycle Line 1-837-2-X91-2" from I-837 (Aroclor transfer pump) must go to the Solid Aroclor Still or Blow Tank. CED will decide easiest routing and furnish appropriate Dwgs.

6) It has been discussed previously that because of the limitations of the existing Therminol System in Bldg. 27, only the Therminol necessary for I-810 (Aroclor Receiver) should be taken from that system. Therminol for use in the new Flaking Area could be heated electrically in that area and run in a separate system. Since this situation is not reflected on Dwg. 1430-9-D-826.08-D-8-A, it should be discussed with C.E.D.

7) It was agreed upon that these solid Aroclors would be handled in the following manner:
   a) 2565 - Drummed in Bldg. 27 only (2 batches/yr.)
   b) 4465 - Cast in drums only (50 gallon steel)
   c) 5442 - Cast in Drums only (50 gallon steel)
   d) 5060 - Flaked in bags only (50#)
   e) 5460 - Flaked in bags (50# & 100#)
   f) 1268 - Flaked, milled and placed in fiber drums only.

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8) A Hopper and Grinding Device for the addition of dry ice to the I-826 (hopper) was suggested. It was also noted that Dwg. 1430-9-D-826.08-D-8-A does not show a mill below this hopper.

C. Biphenyl, Santowax & Biphenyl-F Flaking, Bagging & Drumming
(See marked up print. Dwg. 1430-9-D-826.08-D-9-A)

1) A request for a Plant Level Safety Review meeting is necessary to determine whether the use of Gas Fired Radiant Heaters in the Bagging Area and/or the Warehouse is hazardous.

2) Biphenyl, Santowax and Biphenyl F can be brought from Bldg. 27 by use of a common sloped and jacketed line to I-815 (Biphenyl surge tank). This would necessitate designing I-815 and jacketed line for maximum Santowax conditions. A study should be made to determine if a steam traced line would suffice within the Warehouse. Because of the difficulty in handling Santowax, proper positive shutoff is necessary to avoid contamination at certain points in the system.

3) Performance and Physical Dimension Information is required on I-842 (Biphenyl Flaker Vent Jet).

4) The "Future Drum Fill" on discharge of I-832 (Transfer Pump) needs to drum Biphenyl now. It is felt that Biphenyl can be drummed through the Drumming Station mentioned in B-2 of this memo.

5) The jacketed line to I-815 (Surge Tank) and I-815 must be designed and sloped for maximum drainage similar to I-811 (Flaker Feed Tank for Aroclor) in order to avoid contamination. This would include a high base for I-832 (Transfer Pump) to insure the placement of a 5 gallon container under the suction drain valve.

6) Dust collection hoods are needed possibly over the I-818 (Biphenyl Bagger) and certainly over the Biphenyl Fiber Drumming station. Dust emission from I-818 must be investigated to insure the need for a hood.

7) I-816 (Biphenyl Flaker) must be variable speed or at least have the ability to change sprockets because of the different speed required for Santowax Flaking.

D. Drum Handling & Palletizing Bags

1) The possibility of a continuous pallet system was discussed and agreement was reached that it warrented further investigation. The system would require having the pallets containing 4 empty drums placed on the conveyor by fork truck. The drums would be filled utilizing a turntable and appropriate scale instrumentation and controls. Handling of individual filled

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and heated drums onto pallets would be eliminated. Handling of the pallets would also be eliminated.

2) All working platforms should be at the level of the conveyor to facilitate work.

3) It was agreed that the use of pallet dispensers costing under $4000 would save much manpower at the bag pallet conveyors. It is believed that one dispenser with the capability to dispense east and west could be located between the two bag pallet conveyors and could be loaded with 14 pallets at one time by fork truck and cut handling considerably.

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