

DICTATE IN SEQUENCE:

1. HEADING INFORMATION
2. NAMES OF ADDRESSEES
3. NAMES OF CARBONEES
4. IMMEDIATE ACTION NEEDED
5. REPORT ON CALL

REPORT CAPTIONS:

1. OBJECTIVE
2. PERSONS CONTACTED
3. RESULTS
4. ACTION REQUIRED

CUSTOMER NAME General Mills		DATE OF CALL 10-6-69	
CITY AND STATE Kankakee, Ill		DATE RECEIVED 10-9-69	DATE TYPED 10-14-69
CUSTOMER MAILING LIST CHANGES - SERVICE CENTER USE ONLY			
NAME AND TITLE	PUT ON	TAKE OFF	MP MAG CATEGORY CODES
REGION St. Louis	SERVICE CENTER Chicago	SALESMAN J. J. Roder/ma	

OCT 15 1969

TO J. R. Fallon - JFALL

CC D. E. Roush
J. S. Pullman
Roger Irwin

Personnel Contacted: Gene Fischer - Process Dev Head } Caldwell-Opr. Engr
Ed Emerson - Section Head }

Objective: Review T-66 conversion in semi-works (pilot plant)

RESULTS

This installation has a 2M BTU/HR S-W heater using Dow A at about 600 to 610°F. The data on the heater is as follows:

352 sq. ft. heating surface
Working press - 200 psi at 700°F
4" inlet & outlet pipe
0.237" wall thickness
Built 1963

PUMP

Chempump Model GLT - 7½K-23H-3T
120 ft. head at 145 gpm
6½" impeller
(Dean Bros. centrifugal as standby)

DSW 434999

Page I attached is a pretty rough schematic of the system as it now is arranged. No blanket is used on the system. They pull a vacuum on the system at startup.

My recommendations for the system are basically to use the vaporizer for the expansion tank, use the condensate pumps for continuous circulation through the reactors, and add a PRC to maintain main header pressure. This suggested arrangement is shown on Page II.

D.E. Roush

I would appreciate any suggestions as well as comments about:

1. Do you think the main Chempump is adequate for T-66?

Continued.....

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IO **J. R. Fallon**

CC

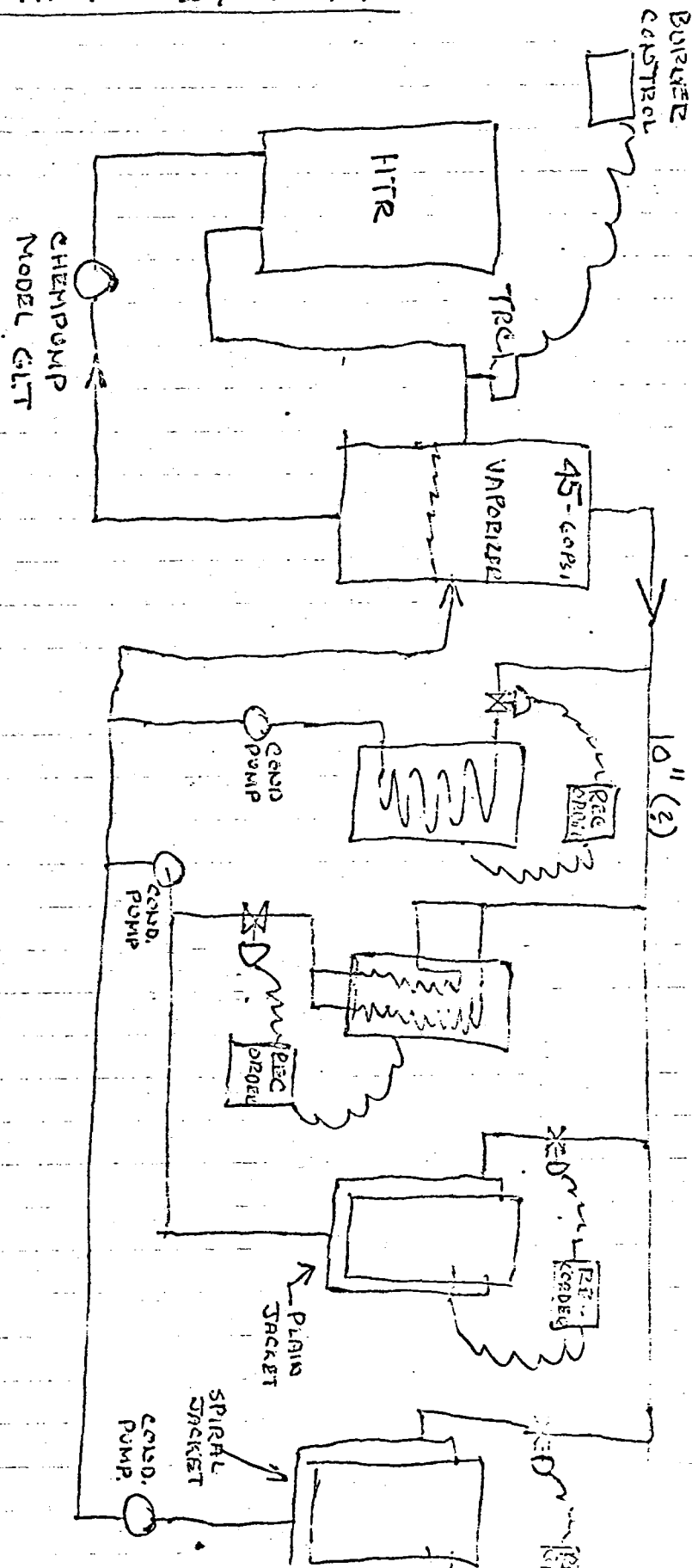
- 2 -

2. Do you think we should find out more about the condensate pumps before using them for the continuous circulating pumps. If they are not adequate they will consider new pumps for this circulation.
3. Do you want to know more about the reactor designs? (Max product temp is about 500°F)
4. Most of their reactors are piped to introduce Dow A at the top. Should we recommend repiping to have the inlet at the bottom? (I'm trying to keep revisions to a minimum)
5. Even if we can use the existing condensate pumps for recirculation, they will need one new pump because at present one pump is used to handle 2 reactors.
6. Total system fill is about 10-12 drums, but with a T-66 liquid system we are talking about 15-18 drums.

NOTE: Emerson is president of the Kankakee chapter of the National Society for Professional Engineers. He will try to get me on the agenda for a Therminol presentation.

Fischer or one of his men will be going to the Illinois-Purdue game with me.

DOW A VAPOR SYSTEM

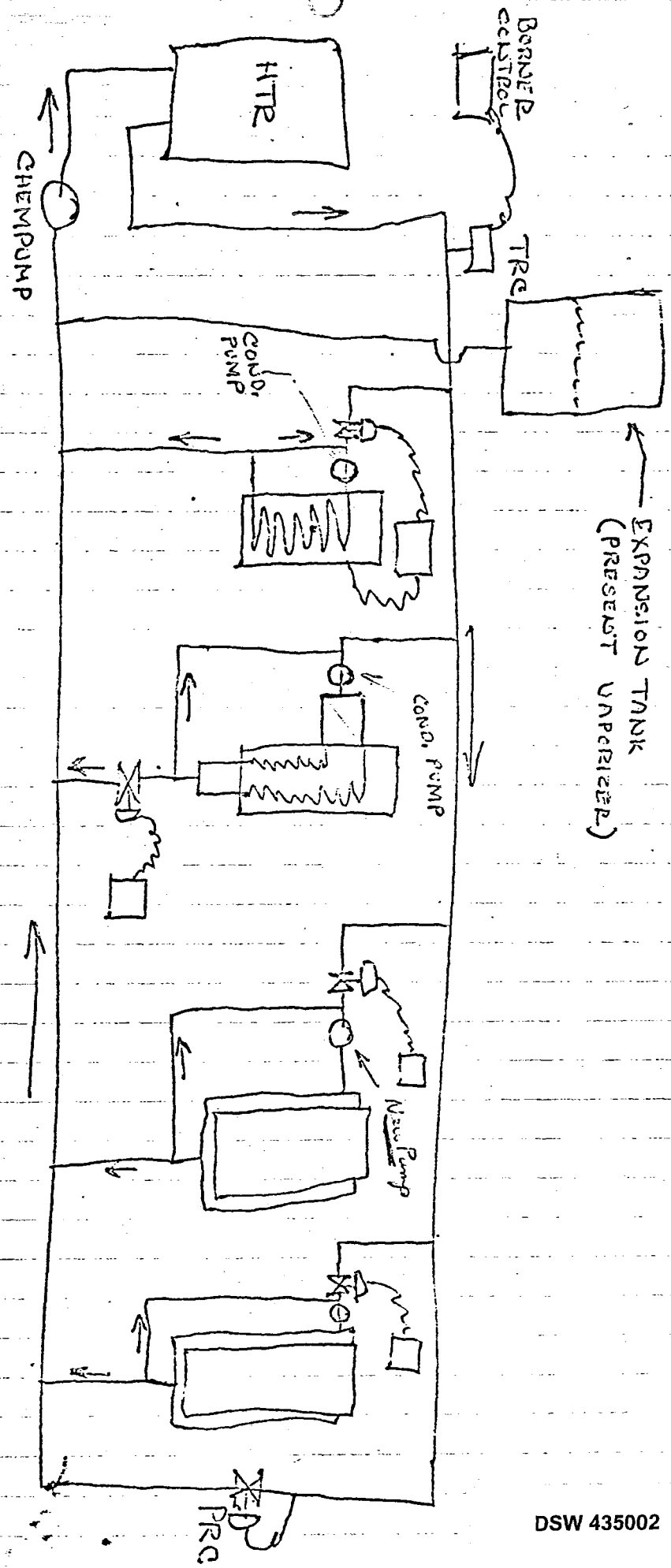


DOW A VAPOR SYSTEM

DSW 435001

STLCOPCB4088061

Recommended T-66 system



DSW 435002