

From **MONSANTO CHEMICAL COMPANY**

At Texas City, Texas

W. E. Alexander - 1 ←
W. H. Slager - 1
R. G. Powell - 1
Reading File - 1
Job File - 1

422 *Notes: See*
Date May 4, 1951

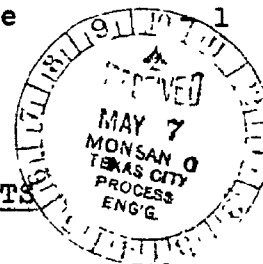
To Mr. J. H. Worth

Reference

At Texas City, Texas

Subject

PROCESS DESIGN DATA SHEETS
VCM PLANT
DEPARTMENT 22



In reply to your memo of April 24 covering various process design data sheets for Department 22, I have the following comments:

- 1) Pump 22P20 has been discussed with you previously and I believe that we are in agreement that the capacity should be increased to approximately 200 gpm to reduce pump-out time of the VCM Rundown Tanks.
- 2) Pump 22P22 is indicated for intermittent operation, about 10 minutes every two hours. It is my belief that a pump handling hot tar bottom such as this pump will give better service if it operates continuously with recycle and off - on flow control for the sump level.
- 3) The materials of construction for the majority of the pumps appear to be cast iron casing and an alloy impeller and shaft. I should appreciate your requesting that General Engineering advise us as to the reasons for the selection of this combination of materials.
- 4) I note that for surge tanks they have indicated a surge time equal to the gross volume of the tank divided by the gpm inflow. I believe that this leads to an erroneous understanding as to what is the practical surge time available. In all probability the tanks will normally be controlled at a half full level so that the available surge, in case either the inflow or outflow is stopped, becomes only half the gross capacity. I feel that in some cases the surge time based on half the gross capacity is probably inadequate. In particular, 22S6, 22T3 and 22T6 might be subject to further consideration.

AWA/vc

A. W. Andrews, Jr.