Monsanto

FROM (NAME & LOCATION) R. S. Yates - General Offices

December 23, 1968

cc: V. R. Haupt
R. M. Kountz
J. C. Landwehr
H. L. Williams

SUBJECT Design Information for Evaluation
CEA 2080 - Solid Aroclor Expansion
Anniston

REFERENCE

TO : W. E. Voss

I have reviewed the still pot case of 2 x 7'6" diameter units and compared this with a single still pot of 11'0" diameter. This analysis is attached for your information and study. The use of a sump in both cases allows us to effectively draw down into the bottom dishes of either unit, and I do not believe hold-up will be a problem with this addition. One significant change is in the new pump shaft lengths. The unit in present Still No. 4 is 9'8" from top flange. With the sumps, we will need at least a shaft length on the same basis of 13'8" for the 11'0" diameter tank and 11'6" for the 7'6" diameter tank. We will need at least two intermediate bearings for these cases. My files are not clear on Still No. 4 pump, and some questions needing answers are:

1) Does this pump have one or two intermediate bearings?

2) What is the shaft diameter, 1-1/4" or 1-5/8" or some other diameter?

3) Did we change bearing sleeves from flame hardened mehanite to some other material, such as Deloro Grade #6 or #4?

4) Did we remove the expansion joint in the discharge line from the pump casing? Yes but it needs one

5) What was the final modification to the pump casing, a 6" diameter opening with inducer? Yes

6) Did we modify or change the method of cooling the bearings which originally was a 1/4" line from the discharge pipe?

Ralph Corley spent a day at the plant reviewing the problems associated with moving the present chlorinator control panel into a new extension to the south of the present room. This seems to be a good solution from a long-range view. One problem needing to be resolved is authority to dismantle the heater on No. 1 biphenyl still. If authority is granted, we will add an 18' extension which will extend south to the next roof support span and add 540 sq ft of floor space to the present room. If the heater is not removed, we will have a rather awkward expansion to the south with less space available. We believe we can relocate the panel in about three days.

0235832

TOWOLDMON0048230

You will note from the layout sketches that it would be easier to expand the single still case than the double still case.

Please review these items and let us know by January 2 or sooner your decision on these items.

R. S. Yates

js

0235833

TOWOLDMON0048231