E. I. du Pont de Nemours & Co.
Explosives Department
Wilmington 98, Delaware
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SR/H--933

1. *McRae* ADD 1/23/89
Name Title Date
Barick AED CO 2/4/89
Name Title Date

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- #4. L. C. Peery - SRP
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December 29, 1955.

TO: J. B. TINKER

FROM: R. J. CHRISTL

200 AREA WEEKLY REPORT

SOLVENT EXTRACTION PLANTS

This document consists of 2 pages

No. 1 8 17

Operations Status

211-F - Operation continues at a 4 batch/day rate

Preliminary results on burial ground solvent, which is being treated with activated carbon, indicate that it is being cleaned up to a level approximately equal to the solvent now in process. No decision has been made on the disposition of solvent reclaimed in this manner.

Powdered dye has been added to the "B" Line exhaust duct to test for leaks from the duct into the air tunnel. Samples of air tunnel sump solution will be examined for dye. In this fashion it is hoped to prove the theory that high product content of air tunnel sump material is the result of leaks in B Line air exhaust duct.

221-H - Operation has continued at an 8 batch/day rate. A larger feed orifice has been installed on the 1A bank and the rate is now being raised to 8.25 B/D. The second metal cycle rate has been increased to 8.25 B/D. Two of the four 2A feed jets are being replaced with higher capacity jets after which an attempt to operate the second product cycle at 10.2 B/D will be made.

In "B" Line the fifth direct fluorination button has been fired.

241-H - The first high level waste tank has been filled and the second started.

211-F - Solvent Purification

The Order-of-Magnitude Estimate for this project has been reviewed at the net cost level. A Part I S-8 project will now be written.

221-H - B-Line - Product Recovery

Tests of a capacitance probe level measurement device to replace dip tubes in vacuum vessels have been run at SRP. A large variety of solutions were used on the same probe with acceptable accuracy despite the solution variations. One of the test probes will be installed in a vessel in the F Area B Line recovery area. It appears at this point that the capacitance probe will be an acceptable level measurement device.

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Reviewing *Barick*
Official: *C. J. Barick, AED Class*
2/4/89

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Julep

Partial comments on the piping diagram have been received from the plant and are being studied by Engineering. The preliminary building arrangement drawing was taken to the plant last week for review. A portion of the comments on this drawing have also been received. Preparation of the Engineering scope-of-work for this job is nearing completion.

Analytical requirements of the process were reviewed briefly at the plant December 21 with Works Technical and Technical Division personnel. A sampling schedule will be developed to assist the Laboratories Section in establishing instrument and space requirements.

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RJC/blt