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200 AREA WEEKLY REPORT

SOLVENT EXTRACTION PLANTS

March 10, 1955.
 This document consists of 2 pages
 No. 1 of 7 Series A

200-F Area - Operations Status

221 Building - The plant has continued to operate on a 4.4 batch "B" rate and has averaged about 3.8 batches per day for the past week. Foaming continues to be a problem in waste evaporation, but has been kept under control by the use of anti-foam. The difficulty experienced with the high activity waste condensate evaporator has been corrected. It appears to have been caused, at least partially, by instrument troubles.

A preliminary report has been received indicating that some of the connector gaskets are beginning to show signs of failure. The ones noticed to date have been 2-inch gaskets of the old standard (Teflon-blue african). Based on Engineering Department tests, these gaskets were presumed to be adequate. Some replacement may be necessary before "H" Area start-up. There have been a few leaks on the pump out header which is gasketed with the new standard, JM-719.

Efforts to shorten batch cycles have been continued and some runs indicate that 10 hours may be realistic although analytical results are not yet available.

221-F Building "A" Line Increased Capacity

Design and procurement are progressing on the "A" line expansion. Equipment arrangements have been largely agreed to and it now appears that most equipment will be on order by March 15, 1955. Delivery dates are not yet firm, but it appears that the main pot of the denitrator furnaces may be as long as eleven weeks delivery. In view of this, it now seems probable that the building will not be limiting so a concrete frame structure will be used for the extension.

221-H Building - Solvent Washing and Decanting

A scope for this work was reviewed in detail with the plant, Construction in the field, and Design early this week. No information is available as to the probable time delay penalty for doing this work but dates should be available early next week. Design is proceeding and a print review has been held so that our initial comments have been returned to

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3/10/55

200-H Area - 241 Tanks

Design now expects to have the Order-of-Magnitude Estimate for the additional tanks prior to April 1 so a project can be forwarded to us no later than April 15. Preliminary designs have been reviewed with major emphasis being given to minimizing above ground installations at the new pump pit. One new problem has arisen involving pocketing of the encased lines from the diversion boxes to the new tanks, but at worst this should involve flushing lines to prevent spilling high activity materials when diversion box jumpers are changed.

241-F Building

A start is being made on specifying some means of reducing the volume of stored waste in existing tanks. This appears desirable since the first tank in F has filled more rapidly than planned because of the necessity for dumping unevaporated waste to prevent canyon shutdown.

200-H Building - Cold Laboratory

The "P" Work Order for the H cold laboratory has been received. Face value is \$60,000 and efforts are being made to reduce the actual expenditure. We are processing the order based on the present estimate, however, to enable field work to proceed rapidly.

"88" Pilot Plant

Building design is essentially complete. The design force assigned to equipment design has been reduced.

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