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E. I. du Pont de Nemours & Co.
Explosives Department
Wilmington 98, Delaware.

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#3. H. Worthington - W. R. Thayer
#4. L. C. Peery - SRP
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TO: J. B. TINKER

FROM: R. J. CHRISTL

200 AREA WEEKLY REPORT

SOLVENT EXTRACTIONS PLANTS

200 Area Operations Status

Operations in the 221-F canyons were hampered by the inability of "B" Line to receive 2BP solution. "B" Line operation is jammed because of scheduling problems resulting from handling "H" Area product and a shortage of filter boats. "B" Line operations are also below maximum capacity owing to the filter boat shortage. Additional filter boats of improved design are being procured as rapidly as possible. Four new ones were received prior to the change in design which incorporates a filter frit support plate.

221-F&H Building - Spare Parts for Canyon Jumpers

The spare parts requirement for jumper components has been clarified and Engineering has been requested to provide a sufficient stock for 150 jumpers after replacing those used by Construction. This is in addition to approximately 60 complete key jumpers that are to be fabricated and stored. Estimated construction requirements are to be purchased in advance where possible. Spare parts data sheets are to be brought up to date to reflect these spare jumpers and components.

The plant was advised that the specified material for the connector block is "304 L" stainless and not "309". This should alleviate the procurement problem reported by Construction.

200 Area - Steam Transfer and Rate Jet Standardization

The design for jet standardization including interchangeable parts has been completed. The drawings have been approved by the TNX group and by the Process Section.

200-F - Roadway to North End of 221 Building

The suggested changes to the proposed roadway covered in "P" Work Order 6015-F did not reduce the estimated cost ($33,000). The order will be resubmitted to AEC for approval.

221-F&H - Air Conditioning - Sample Aisle Vestibule

Design has been issued for the air conditioning unit. Agreement has been

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reached on the operation of the door between the vestibule and the sample aisle. A new sliding door having a push button pneumatic or electric operator will be provided to minimize contamination problems.

221-F&H Building - Gallery Pumps for 1BX and 1DS

Engineering advised that the poor performance of the Eko pumps used for feeding 1BX and 1DS to the mixer-settlers was caused by wiring the motors in-phase instead of out-of-phase. This caused excessive vibration which led to pump failure. These pumps are to be overhauled and wired properly.

In addition, the experimental Chempump for 1BX service is to be repiped to facilitate testing. The Chempump for ferrous sulfamate feed to 1D has been placed in operation.

High Activity Waste Acid Recovery Test

Design of the insertable decanter for the 1AW run tank is essentially complete and details of the new canyon jumpers will be released to the field starting next week. Design of the cold area piping is about 20% complete. New procurement by Engineering for this test is limited to a Milton Roy metering pump. All details for the start of field fabrication are expected to be at the plant by 9/30.

Building 221-F - Increased Throughput

Design effort has been concentrated on rearrangement of the canyon vessels to eliminate previous interferences on the pipe rack. Material balance flow sheets are being prepared and design of the mixer-settler, continuous evaporator and large canyon tank is proceeding along the lines previously reported.

Canyon Pumps

The probable vendor of pumps for the hot and warm solvent continuous washing systems in 221-H is proceeding with detailed design based upon the special requirements proposed by the Engineering Department. After the shaft design is checked for critical speed and approved, a modified quotation will be presented upon which an order can be based.

241-H - Waste Pump

Arrangement for testing of the 241-H waste pump at TNX were discussed with TNX and Engineering Department personnel. Equipment requirements were generally determined and TNX personnel are proceeding with steps to obtain the equipment. The main requirement is a tank of adequate size which is not available at TNX. An extra machinery canyon vessel may be used, but consideration is being given to a new tank of suitable size for permanent installation in TNX for pump testing and general use.

Building 232-F - Extraction Furnaces

Possible improvements to the existing 232-F extraction furnaces to ease maintenance were discussed with SRP and Engineering Department personnel. Several improvements for the existing furnaces were agreed upon which the plant will try to make before start-up. The Engineering Department will consider the maintenance problem in the design of the additional spare furnace that is to be provided. It is the opinion of Plant personnel that the H Area furnace design cannot be used in F due to space limitations. This will be checked in detail.

Plant Capacity Manual

Awaiting comments by 200 Area Works Technical and Production groups.

RJC/blt