REDOX COMMITTEE

CONFERENCE NOTES AND RECOMMENDATIONS

APRIL 5, 1949.

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SR/H--939

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Reviewing
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1. Work Authority dated April 4, 1949, Project C 187-C and Project C-187-D Redox Test Plant Cancellation -- Redox Production Plant Design and Construction Program, was reviewed and the following change on Page 3, subparagraph 2, Paragraph 4, was made, so that it should read as follows:

"The Kellex Corporation will furnish information as requested for use in answering paragraphs 4 and 5 of the above cited letter."

2. The proposed location of the Analytical and Plant Assistance Laboratory, Building 222-R, was reviewed and approved as per submitted marked-up blueprint, except that the North side of the Laboratory shall be moved 33 feet nearer to the Production Plant.
3. The present location of the Waste Tank Farm, as well as the size, will remain unchanged.
4. The request for information : 1 status reports on completion of the Plant as requested in Mr. F. C. Schlemmer's letter of April 1, 1949, will be complied with as soon as possible. This work will be accomplished as outlined in PM-1460, dated April 4, 1949.

5. The recommendations for separations processes program, as described in Document HW-12685 (INDC-2824), dated March 9, 1949, have been submitted to the Atomic Energy Commission and are now awaiting their authorization.

These recommendations and other possible changes will influence the design of the Production Plant in certain phases, not only process-wise, but also in size and arrangement of the required process spaces. The processes to be considered for additions or revisions.

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1. C. J. Bannick AFD CO 3/25/49
2. M. W. Allen AFD 3/25/49

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Stored Metal Feed Preparation,

Aluminum Nitrate Recovery,

Elimination of Organic Re-work, and

Adoptions of Oak Ridge Modifications to the Flowsheet.

In view of all these and other possible changes, it was agreed that the entire Redox Production Plant Design Program be reviewed for the purpose of incorporating and firming-up the addition of the above cited process steps, as well as the elimination of process steps now found unnecessary or capable of being simplified. This review is to be made by a joint review group consisting of representatives of the Manufacturing, Technical, and Redox Design Divisions, members to be appointed by the Redox Committee.

6. It was agreed that, after this review has been approved by all the Division representatives, a complete scope description of the Production Plant, including its auxiliary structures shall be made, this scope description to be the firm basis guiding all design work of the present Redox Program.
7. Attached to the scope description will be an outline of procedure, establishing the relationship between the architect-engineer (The Kellogg Corporation) and General Electric Company. It will define and list the scope drawings, and include an outline of the required specifications, the number of which is to be reduced. It will also set up a well-defined procedure on the approvals of all drawings and specifications by all interested parties.
8. In the light of past experience, it is indicated that authorization from the United States Atomic Energy Commission on the additions, changes, revisions and eliminations of process steps in the Redox Production Plant may be received between May 15, and June 1, 1949. It is, therefore, recognized that firm con-

struction drawings cannot be expected to be 65% completed before about November 1, 1949, assuming that no construction will be started unless 65% of all design work has been completed.

9. Consideration was given to the work to be performed by The Kellex Corporation during the time the General Electric Divisions require to firm up the Production Plant Program. It is our opinion that there is sufficient work for a competent and small Kellex organization in completing the Engineering and Instrument Flowsheets and all pertinent data on the present Redox basis. This also will include arrangement drawings both for process vessels and piping. Further, the design work on process vessels could be undertaken. However, none of this design work shall be in the form of final drawings, but made as pencil studies to be submitted to the General Electric Redox Design Division for comment.
10. It was agreed that the work to be done by The Kellex Corporation shall cover only design, specifications, order sheets of the Production Plant, including filters and stack, and the Mock-Up Building and necessary sub-stations. All design, specifications, and procurement for auxiliary structures and facilities, including the Waste Tank Farm, will be made by the Redox Design Section. This recommendation is based on the fact that drawings on similar installations such as the Chemical Tank Farm, Solvent Storage, Gate Houses, are already in the files and may be used for this plant with or without slight modifications.
11. It was agreed that all current development work for the Redox Program is to be transferred to the Redox Production Plant. In this connection, we want to clarify the following: Development work does not include the design of an equipment to be manufactured. The development work is complete when the final

report summarizes the results of the research and includes only preliminary design sketches and recommendations. Ultimate design of the equipment is part of the procurement of that equipment.

12. It is estimated that the time required for answering Mr. Schlemmer's letter and preparing the scope description, with procedures, for the Production Plant will be approximately one and a half to two months.

O. H. Greager

W. K. MacCready

E. W. Seckendorff

EWS:ON

200-W PLOT PLAN

FIGURE I

"S" AREA

FIGURE II

NOT TO SCALE