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F. C. Schlemmer, Mgr Hanford Operation Office

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TO: Walter J. Williams, USAEC, Washington, D. C. September 28, 1949

FROM: Fred C. Schlemmer, Manager, Hanford Operations
Office, Richland, Washington

EVENTS OF IMPORTANCE FOR WEEK ENDING SEPTEMBER 28, 1949

SYMBOL: ICH:RWR

Enclosed is subject report for week ending September 28, 1949.

Fred C. Schlemmer

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EVENTS OF IMPORTANCE FOR WEEK ENDING SEPTEMBER 28, 1949

Hanford Operations Office
Richland, Washington

28148

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I - ADMINISTRATION:

No significant events to report.

II - OPERATIONS:

Metal Waste Recovery Program:

Two hundred gallons of metal waste from tank 103-U was shipped to Oak Ridge on September 27th. An additional two hundred gallons has been requested and will be shipped upon return of the containers.

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H-Pile:

Construction forces expect to turn H Pile over to General Electric operations on September 29th or 30th.

UAP Process:

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The General Electric Company is being requested to submit comments within the next two weeks regarding the UAP process as presented by Carbide and Carbon Chemicals Corporation in their report K-464, Part I, and the final report. Specifically they are to comment on:

1. The feasibility of the process.
2. The timing indicated by Carbide for realizing full-scale plant operations.
3. The adequacy of cost estimates presented by Carbide.

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Hexone Procurement:

It appears economically advantageous to procure Shell top commercial grade hexone, and pre-treat on the site by the ANL pretreatment procedure, rather than procure SS solvent (Special Shell hexone) for the Redox production plants.

III - CONSTRUCTION:

Process Areas:

100 (Pile) Areas:

100-H:

Pigtails are being re-installed on the front face and aluminum nozzles are being installed on the outlet face of the 105 H unit; another change is to be made in the electrical relays in the switchgear room. Tests and check list items are still continuing in the H area; insulation and painting will not be completed by October 7, 1949.

100-DR:

The 107 DR Retention Basin was accepted September 26th. This completes the DR Area.

100-DR - Water Plant:

A draft of the proposed subcontract for design of this project with the Charles T. Main Company, Architect Engineers, was received and reviewed by the Commission and comments have been issued. Scope and design Criteria scheduled for issue last week has been delayed due to incomplete documentation of data. Subcontract negotiations with the Charles T. Main Company officials commenced today in Richland.

200 (Separation) Areas:

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Redox - On the basis of data submitted to General Electric the Process Design Group is not satisfied with the Kellex concentrator nor with the tower calculations for the dual-purpose plant. Two engineers from this group are now in New York to discuss these calculations with Kellex and to explain the engineering flow diagrams. The material balance flow sheet has been reviewed by the Commission and approval is pending. The engineering flow diagrams were dispatched to Kellex, September 19th. Instrument diagrams are expected to be ready for approval

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by September 30th. The three process equipment arrangement drawings were approved by the Redox Committee and will be submitted to the Commission this week. Preliminary mock-up building drawings have been submitted to the "S" Division for comment. Approval of all waste disposal drawings is expected by September 30th. Investigation is planned to determine what government owned equipment purchased under various Kellex subcontracts and purchase orders is already available and usable in the Redox program.

Redox Analytical and Plant Assistance Laboratory:

Revised outline plans and specifications for this laboratory have been submitted to General Electric by the architect engineer (Turnbull). Working drawings are approximately 64% complete, specifications 33% complete; and estimating, requisitioning, etc. are 35% complete. Revision of the design schedule by Turnbull is expected after approval of revised outline plans and specifications by General Electric and the Commission. Total design is estimated to be 35% complete.

Rala:

The Rala process methods are still being studied and further design awaits the results of this study and the re-organization of the Design Division of the General Electric Company.

400 (Technical Center) Area:

New Technical Center:

General Electric will be requested to provide the following necessary information in regard to the Technical Center in order to establish a preference for one of the proposed sites: (1) a study of relative economy of sites; (2) a study to determine how a two-phase construction program for the 300 Area would be carried out; (3) elimination of an additional study of the Horn Rapids location.

Hanford Works, General:

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Richland Paving and Related Work - The status of this work is as follows:

- (1) Existing Business District - Not yet started. General Electric issuing drawings revising the scope of work.

- (2) Light Industrial Area - 19% complete.
- (3) North Commercial Area - 71% complete and delayed due to lack of equipment. Estimated completion date is October 10, 1949.
- (4) Neighborhood Shopping Areas - 22% complete, scheduled 86%.
- (5) Hains Avenue Paving - 99% complete.
- (6) Van Giesen Road - 76% complete.
- (7) AEC Airport - 21% complete with grading complete for all runways and laying of 3" base course underway. Lack of equipment is delaying this work.
- (8) Lee Boulevard - 8% complete.
- (9) 1000 House Area - 31% complete.

The entire contract is 41% complete against a scheduled completion of 68%. General Electric has been requested to change the scope of work on the AEC airport to include patching and seal coating of existing runways, additional plane parking area, and repairs to the existing lighting system.

115 KV Transmission Line - Final inspection of the subcontractors portion of the entire line facilities was made September 20th. General Electric is to complete the remaining work. The project is 88% complete.

Southern Railroad Connection - Earthwork on this project is proceeding on a two-shift basis at several locations. Clearing of the north end right-of-way was started September 22nd. A total of 180 well points have been jetted preparatory to dewatering the quicksand area. This project is estimated to be 5% complete.

Levee Construction - The contractor for levee earthwork construction was given notice to proceed September 14th with a scheduled completion date of March 13, 1950. The contractor is moving in equipment.

Personnel:

There are approximately 360 architect engineers (less Turnbull) and 1975 construction employees on the payroll. Construction camp population is 2902 and there are 663 trailer spaces occupied.

IV - VISITORS:

Congressman Charles H. Elston visited the project September 21-24 for an inspection of the plant.

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Mr. L. C. Lintner, of the Walla Walla District, Corps of Engineers visited the project September 28th to discuss the memorandum of agreement between the AEC and the Corps of Engineers regarding the relocation of utilities.

Mr. Jay Perry, Benton County Commissioner visited the project on September 27th to discuss the County Roads in relation to the new UP RR connection.

Lt. Colonel Walter Leber and Mr. Charles Wagner of the Corps of Engineers, Seattle, visited September 27th to inspect the housing in relation to a study they are making of suitable housing to be erected at Chief Joseph Dam.

Fred C. DeHemmer

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