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TO: Walter J. Williams, USAEC, Washington, D. C.
FROM: Fred C. Schlemmer, Manager, Hanford Operations
Office, Richland, Washington

May 27, 1949

EVENTS OF IMPORTANCE FOR WEEK ENDING MAY 25, 1949

ABOT: ICH:RWR

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Enclosed is subject report for week ending May 25, 1949.

Fred C. Schlemmer

Encl: Copies #1 thru #16

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EVENTS OF IMPORTANCE FOR WEEK ENDING MAY 25, 1949

Hanford Operations Office
Richland, Washington

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I - ADMINISTRATION:

No significant events to report.

II - OPERATIONS:

Increased Power Level:

The operating level of D Pile was increased on May 23 as scheduled, and no difficulties were encountered.

Alpha-Rolled Metal:

Approximately one ton of alpha-rolled, triple-dipped, completely transformed slugs are to be discharged on May 25 at an average enrichment of 368 MWD per ST.

G Pile Design:

A status report on the program of G Pile design was received from the General Electric Company on May 25.

Redox:

The following items have been developed in the re-scoping of the Redox program:

1. Aluminum-nitrate recovery will be included in the Redox program.
2. Waste storage tanks will be constructed of mild steel.
3. The short ton has been adopted as the unit for Redox flow sheet quantities.
4. The direction of the pump development program will be assumed by General Electric, who plans to adapt commercial pumps in cooperation with vendors.

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Items to be decided this week include the aluminum-nitrate recovery flow sheet and the extent of re-work facilities.

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Kellex has been requested by General Electric to send six top engineers to Richland by June 1, 1949.

Kellex Job 11 (Metal Recovery):

A group of nine General Electric technical representatives met with Messrs. Kelley and Beckerley of the New York Operations Office, Admiral Macauley (from Schenectady), Mr. A. L. Baker and supervisory personnel of Kellex Job 11, representatives of the Hanford Operations Office and the Division of Production (Washington) at the Kellex offices May 17 to discuss procedures for assembling information on Kellex Job 11. This information is to be used as a basis for recommendations by General Electric and decision by the AEC as to what phases of the Job 11 program should be transferred to Job 15 (Redox) in order to design a dual-purpose Redox plant for processing current production and stored wastes.

On May 18 through May 20 the General Electric group assembled all reports, data, and drawings prepared in connection with these phases, receiving the fullest and most complete cooperation from Kellex.

This information is now being studied and correlated by the General Electric group for presentation to and review by a Hanford General Electric committee on June 6, 1949.

Graphite Expansion:

Evidence continues to indicate that vertical expansion of F Pile has ceased; horizontal expansion continues.

III - CONSTRUCTION:

Process Areas:

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100 (Pile) Areas:

100-H - Work in the 105-H Building includes installation of the process tubes, the top cast iron cooling tubes, the front face pressure monitoring tubing, and the horizontal rod guide caps. Gas piping has been completed except for the remote control valve and connections in the 110 Building. Piping and equipment in the fan room are complete except for insulation and testing. Construction of the total 100-H Area is 80% complete, and the 105-H Building is 68% complete.

100 Areas, General - The installation of sodium dichromate tanks and one (1) pump in Building 185-F is 90% complete (Biology Laboratory Project). Excavation for the 100-F experimental animal farm change house is 95% complete. A field release was issued May 18 to continue with P-10 work under project C-334. Work in the 108-B Building includes installation of instruments and electrical work; work in

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the dry cleaning building consists of welding, pipefitting, electrical installation, and concrete pours. Repair of the 107-DB retention basin is still continuing.

200 (Separation) Areas:

234-5 - Balancing of the ventilation system is proceeding on a 24-hour basis in the 234-5 Building; work in the refrigeration room is proceeding slowly due to a lack of parts (parts on order); the elevator will not function due to a cylinder leakage; replacement parts for this machine have been ordered. This project is 99.7% complete.

Waste Storage - The last two (2) domes are scheduled to be poured by May 26; dome membrane and guniting are complete on seven (7) tanks. The project is 86% complete.

Richland Village:

Housing - All subcontract work on the 1,000 "branch" type homes has been completed. The telephone system for this area is proposed to be included in a city-wide electrical contract.

Aerial Survey - Suggestions for improving the specifications and reducing the cost of this project have been made by the AEC; bid opening is scheduled for June 10, 1949.

AEC Airport - Plans and specifications for the airport have been approved and are to be issued as an addendum to the city-wide paving contract. Electrical plans are partially approved.

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Hospital Addition - Commission representatives are studying the economic aspects of a new fireproof structure versus the proposed addition to the hospital. Invitations to bid on the addition are being held in abeyance.

Commercial Area - A sporting goods store will open for business in the north commercial area May 26; a shoe store is 25% complete.

Sewage Disposal Plant - Tests are still being made to determine leakage in the digesters at the sewage plant addition. The floors and walls in the primary digester have been sealed. Flow through the plant was started May 18 and discontinued May 20 to make adjustments. No serious stoppages or bad conditions were found to exist. Sewage flow on May 23 was 3.4 MG.

Yakima River Bridge - The Bailey bridge span was opened to traffic May 25.

Southern Railroad Connection - Sixteen (16) prospective bidders have submitted the necessary deposit for plans and specifications on this

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project. Bid opening date is scheduled for June 16, 1949.

Levee System - A meeting of AEC representatives and District Corps of Engineer personnel was held in Walla Walla May 20 to discuss preliminary layouts for the permanent levees system around Richland. The engineers estimate that earthwork contracts will be advertised June 3, 1949, and opened July 18, 1949, on this work. Contracts for the pumping works and other structures will be let this fall for completion prior to the 1950 flood season.

Telephone Project - Routine cabling and testing work on the automatic dial telephone project is still in progress, and the project is considered 83.5% complete. All phases of the additional trunk to Kennewick are estimated to be 99% complete, and cutover is expected this week.

115 KV Transmission Line - Overall completion of this project is now 72%. General Electric work on the 300 Area substation is 19% complete.

Personnel:

There are approximately 451 architect-engineer (less Turnbull) and 6,370 construction employees on the pay roll. Construction camp population is 6,787, and there are 687 trailer spaces available for assignment.

VISITORS:

Mr. A. M. Rife and Mr. J. H. Bailey, of the Day and Zimmerman Company, Philadelphia, Pennsylvania, visited the project in conjunction with the Plant Appraisal Program.

Mr. T. P. Doyle, Yakima District Highway Engineer, visited May 15 to discuss revisions to the "Y" intersection which will be brought about by closing the north-south county road as a result of the Southern Railroad connection.

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Captain George E. Horn, 2nd Division, U. S. Army, visited May 18 and inspected the Bailey span across the Yakima River. He pronounced the bridge safe for all state highway "H-20" loads.

Messrs. R. H. Lochow and F. J. Barrett, of the Portland Cement Association, Seattle, Washington, were here on May 18 inquiring about the approximate concrete quantities to be used in the U. P. Railroad connection.

Mr. Daniel Curry, Assistant Special Agent in charge of the Seattle FBI Office, was here to address the Patrol Training School on May 19 and 20.

Mr. William Sheehy, staff member of the Joint Committee on Atomic Energy, was here May 21 through the 23 concerning investigation matters.

Special Assistant to the Attorney General, Mr. Bernard H. Ramsey, from Yakima, Washington, was here May 23 to discuss land acquisition for the Southern Railroad right-of-way.

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Fred B. Schlemmer

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