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Fred C. Schlemmer, Manager
Richland, Washington

DATE: August 5, 1949

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ADDRESSED TO—
Walter J. Williams
Washington, D. C.

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

August 5, 1949

EVENTS OF IMPORTANCE FOR WEEK ENDING AUGUST 3, 1949

SYMBOL: ICH:RWR

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Enclosed is subject report for week ending August 3, 1949.

Fred C. Schlemmer

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EVENTS OF IMPORTANCE FOR WEEK ENDING AUGUST 3, 1949

Hanford Operations Office
Richland, Washington

I - ADMINISTRATION:

No significant events to report.

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II - OPERATIONS:

Redox:

Operation of the five-inch column as a I-B column packed with one-inch Raschig rings revealed throughput capacity approximately twice that achieved with one-half-inch Raschig rings.

The first uranium run in the cascaded Demonstration Unit, which started July 29, was terminated after 40 hours due to minor pump difficulties. Preliminary data indicated waste losses in the I-B and I-C columns were satisfactory and that losses in the I-A system were slightly above specifications.

Pile Operation:

The water leak in B Pile reported last week was isolated in Tube 0283, which was replaced August 2.

III - CONSTRUCTION:

Process Areas:

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100 (Pile) Areas:

100-H - Testing of the process tubes, nozzles, horizontal rods, and gas lines is still in process in the 105-H Building. High pressure tanks in the 110 Building are being flushed; 107 retention basin joints are being refilled. The #1 and #2 Boilers are carrying a full head of steam, and Boilers #3 and #4 are being dried out. The 100-H Area is 94% complete, and Building 105-H is 94% complete.

Biology Building - Drawings are being completed, and specifications for the new equipment for this building are being written.

P-10-A - Operations on an experimental basis were started last week, and investigations are being made to prevent recurrence of difficulties encountered. This project is approximately 36% complete.

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P-11 - A well for producing a good supply of water for this project has been tested.

200 (Separation) Areas:

Redox - Construction schedules prepared by Kellex for the 202-S Building, filter, stack, and mock-up are in the process of being submitted to the AEC. Material Balance Flow Sheets have been accepted and Engineers' Flow Sketches covering the solvent extraction portion of the dual-purpose plant have been approved by the Redox Committee. Engineering Flow Diagrams covering the first extraction cycle, second and third uranium decontamination cycles, second and third plutonium decontamination cycles, organic makeup, organic recovery, and waste treatment are expected to be issued for comment the week of August 15. Work is also under way on the instrument flow diagrams layout, mechanical development, bearing development, and waste disposal. A decision regarding the first floor elevation of the dual-purpose plant is delaying the work on the 241-S tank farm drawings.

300 (Metal Fabrication) Area:

Experimental Metallurgy Laboratory - Foundations have been poured, and utilities have been roughed in on Building #3730.

Sanitary Sewage Expansion - Latest information on the 300 Area sewage expansion indicates that the present plant is adequate for present needs and that further work on this project will be deferred.

Process Areas, General:

Health Instrument Control and Development Laboratory - Outline plans and specifications have been practically completed, and a realistic detail design completion date has been established of November 1, 1949, to November 15, 1949. Design completion is 18% complete.

New Technical Center - The rescoping and re-estimating of the Center is estimated to be 65% complete. Submission of the rescoped project is expected September 1. Floor plans for all buildings are estimated to be 95% complete, and equipment requirements and cost estimates are being firmed up. A preliminary survey to establish the approximate boundaries of the proposed site is scheduled to start August 4.

Hanford Works General:

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Richland Commercial Areas - Water service lines to lots and facilities are 25% complete and sewer connections are 10% complete in the commercial areas. Work on these services was commenced in the North Commercial Area July 20.

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Southern Railroad Connection - The contract for the Union Pacific Railroad connection was awarded to J. A. Terteling on August 2.

Personnel:

There are approximately 267 architect-engineer (less Turnbull) and 3,628 construction employees on the pay roll. Construction camp population is 4,276, and there are 1,044 trailer spaces occupied.

IV - VISITORS:

Mr. L. G. Schraffenberger, Consultant, Office of Safety, Washington, D. C., visited the project July 27 through August 2 to make a Fire Department Organization Survey.

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Fred B. Schlemmer

DATE

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END