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TO; Walter J. Williams, USAEC, Washington, D. C.

March 18, 1949

FROM: Fred C. Schlemmer, Manager, Hanford Operations
Office, Richland, WashingtonEVENTS OF IMPORTANCE FOR WEEK ENDING MARCH 16, 1949

SYMBOL: ICH:RWR

Enclosed is subject report for week ending March 16, 1949.

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pages. No. 14 of 18 copies
Series "A"

EVENTS OF IMPORTANCE FOR WEEK ENDING MARCH 16, 1949

Hanford Operations Office
Richland, Washington

I - ADMINISTRATION:

No significant events to report.

II - OPERATIONS:

231 Building:

Cell No. 4, which had been taken out of operation due to above-tolerance air contamination, is now in operable condition following replacement of plugged up filter media. (See report for week ending February 15, 1949).

Metal Waste Program:

Two one-hundred gallon samples of metal waste solution were taken from the 103-U tank on March 11 without incident. Activity measurements at the surface of the containers ranged from 4 to 5 milliroentgens per hour. The two containers were shipped from Hanford on March 15, as scheduled.

The General Electric Nucleonics Committee and the Lewis Committee met March 14 and 15 to review the reports and recommendations of General Electric, Richland, regarding Redox and the waste metal program. ✓

A report analyzing the various waste metal programs and Redox, prepared by the Operations Division, Hanford Operations Office, is to be forwarded to the Division of Production, Washington, D. C., by March 28.

Recommendations submitted by the General Electric Manufacturing and Technical Divisions to G. R. Prout, Manager, regarding the separations processes program were as follows:

A. Redox Production Plant

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1. If the urgency for early completion of the Redox production plant can be relaxed, the start of construction should be delayed until design has attained approximately 50% over-all completion.

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2. Readjust the basis of metal recovery cycles to handle one and one-half tons of uranium per day and one ton of buried waste uranium per day.
 3. Plant startup, following "Dead" uranium runs, should be carried out with the solvent extraction feed prepared from unneutralized uranium waste from the Bi PO_4 process.

B. Redox Test Plant

1. Cancel the test plant if item A-1 can be agreed upon.
2. Final decision should await review of the design and construction schedules, the cost estimates being prepared by Kellex, or the reply from AEC regarding start-up schedule for the production plant.

C. Kellex

1. Consolidate Job 11 under Job 15.

D. Carbide and Carbon Uranium Ammonium Phosphate Process

1. Continue development of the uranium ammonium phosphate process until firmed up.

200 Area Masks:

General Electric personnel are studying the advisability of eliminating the wearing of masks in the 200 areas, and it is anticipated that the decision will favor such action.

Redox:

Repairs to the service section of the 321 building are 99% complete.

III - CONSTRUCTION:

Process Areas:

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100 (Pile) Areas:

100-H - The fourth tier of "B" blocks on the inlet face are being installed in the 105-H building, and the third tier tie straps on the outlet face are being welded. The seventh and eighth layers of laminations are being installed on the side adjacent to the

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[REDACTED]

control room, and the eight and ninth layers of "T" sections are being installed on the side opposite the control room. The setting of the cast iron base castings are being checked. A roof fire destroyed the roofing felt on the 105-H work area and crane cubicle roof. Inspection has shown no serious damage to the gypsum roof slab, and the work area was covered to prevent water damage. Graphite layers #81 through #90 have been disassembled, and preparations are being made to assemble layer #91 in the assembly block of the 101 building. The second boiler in the 184-H building has been accepted; the Rust Engineering Company has completed their portion of the stacks.

100-DR - It is expected that the 105-DR building will be turned over to the Operating Division March 18, 1949.

P-10 - The roof slab for the 104-B building has been poured, and this project is considered 89% complete. Detailed drawings are still not available for the P-10-A project; however, work was commenced on laying of concrete block walls of the 108B building. The 111-B metallurgical mockup is 80% complete.

100 Area General - The temporary radio biological laboratory in the 100-F area was accepted with exceptions. Building 622-A (water and sewer) was accepted with no exceptions and is now in full operation.

200 (Separation) Areas:

234-5 - Work on this building is 95% complete with ventilating work 97%, piping 96%, and process piping 85% complete. The refrigeration system is being delayed due to slow delivery of material and incomplete design.

Waste Storage - Six tanks have been completed and lowered; a second lift is poured on the first tank, and dome resteel is being placed. X-raying is in process on tanks 7 and 8.

Richland Village:

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Housing - All 1,000 "ranch" type houses have been turned over to the using agency. The sewer and water systems in the new area are now complete, and miscellaneous street, electrical, and fill operations are in progress.

Miscellaneous Village Construction - Drawings and specifications for the Richland AEC Airport are practically complete, and General Electric is incorporating advisable suggestions made by the CAM.

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The automatic dial telephone project is 68% complete. Eight cabinets of line and trunking relays have been delivered, and the remaining group of cabinets are to be delivered within 30 days.

Construction of two privately financed facilities has begun in the new central commercial area.

Personnel:

There are approximately 10,740 construction and 783 architect engineer (less Turnbull) employees on the payroll. Camp population is 10,180, and there are 174 unassigned trailer spaces.

IV - VISITORS:

Mr. Robert Colborn, Managing Editor, Business Week Magazine, visited the project to gather material for his "Atom Roundup Story".

Mr. Patrick Walker, Hearings Officer from the National Labor Relations Board, visited here in regard to hearings against Atkinson-Jones; Urban, Smyth & Warren; Newberry Neon; which involved the Technical Engineers and Architects Union and the International Office Workers Union.

Messrs. F. A. Norton, A. A. Powers, and Lee Siegel of the Walla Walla Corps of Engineers visited the project to discuss soil tests in connection with permanent levee construction.

V - SCHEENECTADY - CONSTRUCTION PROGRESS KAPL:

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Construction Progress:

General Office and Security Building - Completed erection of temporary windows on second floor. Started application of floor topping on grade floor.

Cafeteria - Completed alignment of steel girts. Continued erection of aluminum siding and application of built-up roofing.

Physics Laboratory - Completed application of floor topping on floor slabs. Started installation of telephone and signal conduit in service tunnel.

Central Shops - Started installation of lighting fixtures in shop area and setting up machine tools. Resumed work on erection of bus duct supports.

Metallurgy and Engineering Building - Completed erection of floor beams and fireproof partitions. Started installation of process piping,

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setting of door bucks and steel channel bases for power load center.

Chemistry Laboratory - Started erection of insulation and siding on cave area. Started placing base for and laying out of Cemento partitions on first floor. Continued installation of overhead piping in process tunnels and equipment floor and connecting 440 volt outgoing feeders.

Pilot Plant and Laboratory - Completed erection of steel stairs to weigh tank floor and structural steel supports for constant head tanks. Continued formwork for equipment bases on transverse mezzanine, erection of fireproof partitions, installation of air ducts and overhead piping above mezzanine floor, installation of electric service. Completed installation of copper flashing and coping and application of built-up roofing. Started application of built-up roofing on scrubber pump house.

Waste Concentration and Disposal Building - Started erection of structural steel. Continued formwork for twelve foot curtain wall, pipe fitting in cooling tower pump house, and installation of conduit for instrument panels, light, power and annunciator controls.

Steam Plant and Laundry - Continued painting interior surfaces, hooking up laundry equipment, plumbing and steam fitting installations.

General:

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Meetings were held with the Manager, a representative of the Washington Office, General Electric, and the General Electric Realty Corporation to evaluate cost of construction work and to effect rigid control on expenditures for labor, materials, and equipment.

The Manager has suggested to Mr. Winne that Admiral McCauley be placed in direct charge of SPRU construction to coordinate and direct the work of the KAPL chemical engineering group and the General Electric Realty group. Messrs. Winne, Suits, and Yowell met to discuss the matter Monday, and it is understood that Mr. Winne and Mr. Yowell favored the plan with Mr. Suits undecided.

Fred C. Schlemmer

END

**DATE
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10/15/93