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DATE: 4/7/69
SERIAL NO. HAN 19118
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Office Memorandum • UNITED STATES GOVERNMENT
19118

TO : Walter J. Williams, USADC, Washington, D.C.

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

SUBJECT: EVENTS OF IMPORTANCE FOR WEEK ENDING JANUARY 5, 1949

DATE: January 7, 1949

I - ADMINISTRATION - No significant events to report.II - OPERATIONS

Metal Recovery - General Electric Company has submitted a preliminary survey of the scope of work in evaluating metal recovery processes. Copies were forwarded to W. J. Williams January 5, 1949. A final report and recommendations are scheduled for completion by March 1. ✓

Electric power - The Bonneville Power Administration has informed Hanford that the supply of power may be expected to be critical as long as extreme cold weather lasts, particularly during time of peak load. It is possible that the frequency may drop below the operating standard of Hanford (59.3 cycles) necessitating shutdown of pile operations during such period in accordance with established safety policies. ✓

300 Area - Effective January 4, the standard Hanford slug dimensions were changed to a diameter of 1.350 inches and a length of 4.045 inches. Previous dimensions were 1.359 inches and 4.00 inches, respectively. The purpose of this change is to compensate for the lengthwise contraction with consequent thickening which has been observed in the canning cycle with alpha rolled slugs. ✓

Redox - High concentrations of silicon (1000 times that in normal uranium solution) have been discovered in emulsions appearing at the interface of the demonstration unit. Sources may be the dissolver, or the steam plant condensate. Investigation continues.

III - CONSTRUCTIONProcess Areas:100 (Pile) Areas:

100-E - Graphite fabrication for 105-H is approximately 20% complete; layer number six (6) is being assembled in the assembly block. Steel is still being erected over the process area. The total project is 41% complete with the 105-H building 33% complete; cold weather is slowing progress.

100-DR - Testing of lines and equipment is still in progress and trouble is being experienced in locating a major gas leak in the 105-DR building. The entire project is 97% complete.

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Office Memorandum • UNITED STATES GOVERNMENT

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TO : Walter J. Williams

DATE: January 7, 1949

FROM : Fred C. Schlemmer

SUBJECT: EVENTS OF IMPORTANCE FOR WEEK ENDING JANUARY 5, 1949

P-10 - This project is 75% complete.

200 (Separation) Areas:

234-5 - Plastering in the process area is about complete and latherers are working in areas B, G, and H, with the latter nearly ready for plasterers. Some portions of the electrical work are being delayed because of a lack of fittings and transformers. The entire project is 46.5% complete and Phase I is 40% complete.

241-BY Waste Storage - Knuckle plates on one tank have been assembled and six quarter wall sections have been welded but erection is being held pending receipt of additional stiffener angles.

Process Areas, General - The drawing for the additional laundry facilities, Bldg. 27247, has been submitted for approval. Additional test wells near the 200 areas have been authorized and drilling started. Periscope alterations in the 221 Bldg. have been completed. Fabrication work for the spectrometer installation was begun January 1. Final inspection of the additional control of 231 Bldg. process wastes is scheduled this week. Occupancy of the Optical and Electrical Shops is expected soon. Atkinson and Jones has nearly completed installation, and will operate the aggregate handling facilities and the batch plant for Redox. The 300 Area sub-station of the 115KV project was completed this week and the total project is now 80% complete, as revised to include the 3000 area substation.

Richland Village:

Housing: 41 houses of the "Ranch" type were completed during the week making a total of 761 accepted to date.

Schools: Final inspection was made during the week on the Spalding, Lewis and Clark, and Marcus Whitman schools. The Junior High is now considered 80% complete.

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Miscellaneous: A total of 708 trees were planted along village streets during December. Based upon a city planning study, a revised proposal is being prepared to increase the automatic traffic signals from 5 to 14. Bid invitations are being prepared for the North Storage Reservoir replacement. Cold weather is reducing the rate of progress on the new commercial districts; the Central area is 49%

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and the light industrial area is 89% complete. Dynamite was used to relieve the ice stress against the Yakima River highway timber trestle. Minimum grade elevation for the Southern rail outlet has been established at 363.5'.

Personnel:

There are approximately 14,130 construction and 749 Architect-Engineer (less Turnbull) on the payroll. Camp population is 12,440.

IV - VISITORS:

Mr. H. A. Parker of the Bureau of Reclamation, Ephrata, Washington, visited to discuss Wahluke Slope Real Estate matters.

Captain James Russell, U.S.N., Military Application Division, and Col. William L. Kennedy, U.S.A.F., Coordinator of plans and intelligence for Atomic Energy matters, Washington, D.C., visited the project for information and discussions regarding weapons problems and for a general orientation tour.

Lt. Col. F. G. Forrest and Lt. Col. D. H. McMains of Ft. Lewis, Washington, visited regarding defense problems.

Messrs. Auto F. Schnellhardt, H. L. Drake, T. W. Welch, J. F. Bruce, and F. F. Ford from the Walla Walla District, Corps of Engineers, visited Richland to look over the site of permanent levees to be constructed by the Corps of Engineers in and around Richland when the McNary Dam project gets underway.

V - SCHERECTADY - CONSTRUCTION PROGRESS KAPL

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Construction Progress:

Pilot Plant - Completed painting structural steel and concreted a portion of the curtain walls for the annex. Completed installation of the conduit and wiring for the instrument panels, light and power.

Pilot Plant Lab - Continued installation of electrical and mechanical services, Hanserman partitions, asphalt and ceramic tile in change areas.

Cafeteria - Completed welding and bolting structural steel.

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Physics Lab - Completed installation of angles above curtain wall sills. Started installing angle iron supports in electrical shafts.

Central Shops - Continued lighting installation, setting fifteen hundred KVA load center and metal lath work on mezzanine. Completed erection of the overhead doors.

Chemistry Lab - Completed the concrete finishing of the exterior wall surfaces. Completed setting three hundred KVA lighting load center and fifteen KVA emergency transformer.

Waste Concentration and Storage Bldg. - Completed excavation for stack foundations and formwork for storage cell manholes.

Steam Plant and Laundry - Concreted foundations for condenser spray pond walls.

Garage and Fire Station - Completed installing hung ceiling supports, metal lath work in office area and started plastering.

Water and Gas Pump House - Completed setting water pumps, installation of motor control panel and started lighting conduit work.

General:

The number of construction employees on the job are as follows: Walsh Construction Co., 655; lump-sum sub-subcontractors, 129; CPTF sub-subcontractors, 332; equipment rental operators, 3; GE Realty Corp., 17; total - 1136.

As of December 31, the total commitments by construction contractors was \$11,175,000.00 and total payments equaled \$7,449,000.00.

At SCD Laboratory, Dr. Fenske's twenty-stage stacked extractor has been completely piped up and is being operated with solvent and water. Brief studies of unit hydraulics are in progress. A 1A extraction with center feed at one percent Hanford flow rate was made in the fifteen stage laboratory MS unit. The interface control was very good and it is believed the calculated efficiency will be good. Some trouble was experienced with the solvent flow rate because the flow rate of solvent fell off due to a change in pump speed.

Severe storms caused a power shut-off for four days, however, the diesel generators carried the emergency load.

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Fred C. Schlemmer

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