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May 48281928z GR 751

To: United States Atomic Energy Commission
Washington, D.C.
Attention: Mr. Wilson

From: Carleton Shugg, Manager
Office of Hanford Directed Operations

Subject: Events of Importance for Week Ending May 08 11

RECEIVED

MAY 27 1994

Section 1 - Administrative

None

Section 2 - Operations

Inspection of slug stuck in 100F pile reported last week revealed 60 MIL warp and slight blistering. (Wilson from Shugg) satisfactory mockup test May 25 of spline and reel segmental discharge equipment. Method described in operations report for April. Personnel exposure and mechanical problems resulting from complex apparatus at pile discharge face greatly minimized by this approach. Second scrubber installed in second dissolver cell in 200 West during week. Recent results indicate 50 percent removal of nitric oxide and a large portion of radioiodine. All high G.T. neptunium runs expected to be completed by June 8.

Section 3 - Construction

Camp population now 11,200. 1,584 trailer spaces completed, 1,312 occupied. 164 Bremerton houses accepted. In village 432 precast and 177 permanent type units accepted. On thousand houses 269 foundations excavated, 209 poured and framing completed on 9 units. Design under way for moving 7 dorms from Portland Air Base for village use.

May 22 started relaying 17 miles of rail from May Junction to North Richland. Preparing to weld top T section for 105 DR process block and continuing fabrication of T section laminations. Redox scaleup 90 percent complete. At waste storage tank farm 15 tanks welded, eight x-rayed, two concrete domes poured. Temporary structural work proceeding on 234-5 and expect start of foundations next week. Commenced retention basin for 107 H. Construction on 105 DR being delayed by carpenters' demand for premium pay over 30 foot elevation. 300 carpenters walked off job on May 26 at 105DR. Other jobs not affected. Emergency crews raising access county road south of Yakima River in face of rising flood waters. Also construction of emergency dike to protect hospital and administrative areas from flood waters started May 29. Flood now highest since 1934. Some emergency aid in form of lending pumps and accepted evacuated persons in North Richland being rendered to off project areas.

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US DOE ARCHIVES
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Section 4 - Visitors

Representatives of Kellex Corporation here to discuss Redox program with GE management here and with Mr. Winne and Dr. Jeffries, Vice Presidents of General Electric Company.

Schenectady Report: Construction progress at KAPL continued as follows: Separations pilot plant--commenced installation of electrical wiring. Pilot plant laboratory--poured concrete for exterior walls, columns, beams and second floor slab of superstructure. Commenced form work for balance of second floor area, columns and roof beams. Cafeteria--commenced form work and concreting footings in service tunnel and basement area. Physics laboratory--resumed form work for walls and cross beams of service tunnel. Completed concreting for footings for exterior wall columns and started laying 6 inch tile subdrain lines. Central shops--commenced form work for balance of connecting service tunnel walk and roof construction adjacent to pilot plant building. Chemistry laboratory, steam plant and laundry--continued excavation and form work.

S.O.D. was instructed to have Blaw-Knox proceed with the engineering of full scale M--S and such other process equipment as necessary to determine the design of the M--S equipment.

Messrs. Weills, Hammond and Miller of the Ferguson Company and Lanahan of AEC, Brookhaven visited area Wednesday for conference with GE personnel on problems of laboratory design and waste disposal at Brookhaven. At Standard Oil Development Company laboratory extraction runs are continuing in small stainless steel mixer-settler units using fifth stage as center feed.

DOE ARCHIVES

On project genie discussions are being held with Dr. Gilbert of DuPont Company concerning the cleaning of the liquid metal systems. Meeting was held with Gibbs and Cox at New York Wednesday to discuss the problems of installing heat transfer equipment and the ultimate heat source in the space limitations of a submarine. Schenectady manager and Rhodes held conference with GE officials last Friday in connection with negotiation of a contract for a fundamental research program in metallurgy.

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To: U.S. Atomic Energy Commission
Washington, D.C.

Msg Nr 789

June 48 04 1522z GR 670

From: U.S. Atomic Energy Commission
Richland, Washington

Subject: Significant Events for Week Ending June 2:

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Section 2 - Operations

F pile shut down temporarily due to difficulties encountered May 30. Slugs removed from front and rear of tube. Attempt to pull tube under way.

Section 3 - Construction

Approximately 676 AE employees at work of which 128 are on replacement pile and on new pile H. 32 on 234-5 building, 465 on Redox and remainder on miscellaneous facilities. Barracks space completed in camp for 7,418 male workers and 474 female workers. 1,738 trailer spaces completed with 1,693 occupied. 176 Bremerton houses accepted. Camp population now 13,760. In village last of 450 precut units accepted. 256 permanent type units accepted. 297 foundations excavated, 226 poured, framing completed on 10 units of 1,000 house contract.

Relaying of 3 miles of rail completed south of May Junction. Drilling progressing on 6 of additional 25 special test wells.

Working on T sections and T section lamination. Started 105 H and 107 H sites. 100 H general facilities 45 percent complete. 105 DR carpenter work again progressing. Structural steel being placed over pile area. Redox scaleup 96 percent complete. Waste storage 241 TX 53 percent complete, 10 tanks x-rayed, 3 concrete domes poured. Started 234-5 excavation June 1.

Section 4 - Visitors

Drs. W. A. Noyes, E. O. Lawrence and Wendell Latimer here June 1 for discussions arranged by Division of Military Application. Lt. Col. R. H. Blount reported for sixty day indoctrination in health physics.

Schenectady Operations Weekly Report

DOE ARCHIVES

Construction progress at KAPL as follows: Separations pilot plant, completed erection of roof decking and started application of built up roofing. Started formwork for mezzanine floor. Building 43 percent complete. Pilot plant laboratory, completed concreting walls, columns, beams and floor slab for second floor superstructure. Building 38 percent complete. Cafeteria--concreted bottom slab of service tunnel. Building

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3 percent complete. Physics laboratory--commenced erection of steel cross beams and concreted footings and piers along exterior walls. Building 6 percent complete. Central shops--completed installation of electrical conduits and started pulling wiring. Building 12 percent complete. Engineering and metallurgy building--continued formwork for curtain wall construction. Building 11 percent complete. Chemistry laboratory--continued excavation for basement and foundations. Building 2 percent complete. Steam plant and laundry--continued excavation and formwork for foundation footings. Building 3 percent complete. Garage--started installation of underground sanitary lines. Building 13 percent complete.

As of May 28 total commitments for construction subcontractor were \$3,381,000. Total expenditures were \$2,198,000.

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Topographical survey started at proposed remote site. Meeting of manager's site investigation committee scheduled Friday. Admiral W. S. Parsons and Admiral Solberg will visit operations on Friday of this week.

At S.O.D. laboratory full scale demonstration mixer-settler unit has been cleaned up preparatory to making runs with cold UNH solutions. Extration runs are continuing on small stainless mixer-settler model with satisfactory results. On Ion chamber project at General Electric's GE and C laboratory under engineering assistance to Hanford last two air chambers were shipped to Hanford completing this portion of the order over a month.

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To: U.S. Atomic Energy Commission
Washington, D.C. June 04 1715z

From: Carleton Shugg, Manager
U.S. Atomic Energy Commission
Richland, Washington AEC GRNC

For: Carroll L. Wilson

Subject: Flood Supplement to Weekly Teletype Report

Following is flood supplement to weekly teletype report:

The progressive stages of the existing flood condition at this installation are briefly as follows: First action was taken on last Wednesday. At that time, attention was brought to the apparent rising of the Columbia and the Yakima Rivers by the danger that seemed to surround the trailer courts located in the low area on the road between the Yakima bridge and the Richland Y. A check on the situation did indicate an unusually fast rise in the rivers and it was determined to raise the road on that stretch as it was the only immediate access road to the project. Trailer residents in that area were advised by project personnel to evacuate the area and were offered space in the North Richland trailer camp. The advice went unheeded for the most part until early the next morning when the river had risen another foot and the Sheriff of Benton County gave evacuation notice to the trailer dwellers. The trailers moved to North Richland. At the same time, the Sheriff also gave evacuation orders to trailer camps in the Kennewick-Pasco area threatened by the rising Columbia.

DOE ARCHIVES

The evacuees in the Pasco-Kennewick area also were offered space in North Richland regardless if project workers. Some 800 trailers in all were forced to leave their grounds and many other persons vacated shacks along the river. Spaces were immediately prepared for 500 trailers in North Richland and places to accommodate many more were made in park and school areas. To date, 356 trailers housing 957 displaced persons have moved to North Richland. In addition, beds were offered in North Richland barracks for persons forced to leave homes. To date, 1048 men, women, and children have been assigned beds. This is a total of more than 2000 displaced persons taken care of in North Richland, and more are checking in each hour. Housing was also made available in the Pasco Depot barracks and over 700 cots were provided Kennewick Red Cross from the Pasco Depot.

To combat the threatened flood, a committee of General Electric and Atomic Energy Commission personnel was set up to meet twice a day to review the river conditions and to determine the combat program.

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The Yakima bridge--Richland Y road construction was started on Thursday morning and then declared futile on Friday night when the river was rising two feet per day and only one foot per day could be added to the road. Besides, the point reached was as high as the main State highway which would become flooded immediately after water had crossed this access road. The final work on the road was to crown it so that it would remain in good condition to surface after the flood stage. Part of the Kennewick--Richland Y road was under water and closed Friday night; the remainder of the road leading to the back approach of the project was closed on Sunday, as well as both of the immediate back approach roads from Kennewick. The bridge from Pasco--Kennewick was also closed on Sunday. This left only travel from Kennewick over Horse Heaven Hills around Prosser through Benton City to the project or through Sunnyside to the Cold Creek road through the barricaded area. This condition still remains with the exception that the Benton City bridge is now open to passenger cars and light trucks and the Pasco--Kennewick bridge opened today between certain hours.

The first Richland area which seemed likely to be affected was a low point on George Washington Way which is the main thoroughfare in the town. It was predicted that water would reach this point by Friday noon so on Thursday night, the culvert on George Washington Way was plugged.

At each meeting of the Flood Control Committee, river predictions furnished by the river predictor, Mr. Fisher of Portland, were reviewed and served as a basis for all measures taken and decisions reached.

The prediction on Thursday was that the river would reach a 351 foot level by Saturday, May 29. This height did not concern us for Richland was out of any danger at that stage. However, on Friday, the prediction was that the river would rise to 354. It was then decided that a dike should be built to 356. Two feet was the margin of freeboard that we attempted to keep above all predictions.

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From Saturday until Tuesday, the prediction stayed pretty close to 358 to 358.5 and we finally ended with a dike at 361 feet.

The first peak of the river was reached about three a.m. on Monday when it rose to 355.8. The river gradually lowered until on Tuesday afternoon, June 2, it was 355.3. River is now expected to hold present level for 10 days, with a possible final crest of 356.7. Crisis was passed early Monday morning after a sharp rise had threatened to overtop our dike.

The dike work to 361 is now completed and is constantly patrolled. Emergency equipment is on a standby condition to strengthen any weak spots that may develop or to build higher if necessary. Expenditures

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- 3 -

estimated at about one half million dollars for emergency construction of flood protection for Richland. Another quarter million anticipated for clean up and other costs.

Throughout the present conditions, the project has offered all assistance to the Pasco--Kennewick area with the exception of protection of roads and real estate. Consultants on health, sanitation, power, and engineering have gone to that area to give what aid necessary. All supplies have been offered. Pasco, threatened by a water shortage has been offered water supply from the Pasco depot pumping station. The Benton City camp has been offered to the Red Cross or any County or City agency to operate as a place for displaced families. We have agreed to furnish the camp with heating and cooking facilities, cooking utensils, beds, and bedding. The AEC with the aid of the CAP flew in all mail for the post office.

So far, it has been necessary to evacuate only one family from a Richland home. In this case, it was an existing Tact-R home that was on the bank of the river.

It is expected that our flood stage may remain another two weeks and in the face of that forecast, it appears advisable that visitors be held away until the week of June 20.

DOE ARCHIVES

In the event your office wishes to contact us at any hour in regard to conditions, CYDELL is on 24-hour duty and can be reached on Richland 327 during normal hours and on Richland 1520 during off hours.

DATE

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END