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TO: Director, Division of Production
USAEC, Washington 25, D. C.

FROM: J. E. Travis, Manager, Hanford Operations
Office, USAEC, Richland, Washington

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:HRE

Enclosed herewith is Part I [REDACTED] of subject report for the month of AUGUST, 1959. The [REDACTED] Part II, is forwarded as a separate report.

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

AUGUST 1959

PART I

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

AUGUST 1959

PART I

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HIGHLIGHT STATEMENT - AUGUST 1959

OPERATIONS

CANNED FUEL ELEMENT PRODUCTION TOTALLED 521 TONS, INCLUDING 65 TONS OF SOLID AND 414 TONS OF I&E NORMAL-URANIUM AND 42 TONS OF I&E 94-METAL. THE 521-TON TOTAL IS 92.5% OF FORECAST. PRODUCTION FELL SHORT OF FORECAST PRIMARILY BECAUSE OF THE SHORT SUPPLY OF FEED MATERIAL AND THE SLIGHTLY LESS-THAN-FORECAST CANNING YIELD.

YIELDS WERE 88% FOR SOLID AND 85% FOR I&E NORMAL, AND 83% FOR 94-METAL PIECES. THE CANNING LINE TIME-OPERATED EFFICIENCY WAS 93.2%.

A NEW RECORD WAS ESTABLISHED BY IN-REACTOR PRODUCTION OF 113.5% OF FORECAST. THIS GREATER-THAN-FORECAST PRODUCTION WAS POSSIBLE BECAUSE OF LOW NONEQUILIBRIUM LOSSES AND BECAUSE OF AN AVERAGE TIME-OPERATED EFFICIENCY OF 84.5% AS COMPARED WITH 79% FORECAST. NEW MONTHLY PRODUCTION RECORDS WERE ESTABLISHED AT DR AND KW REACTORS. DURING THE MONTH THERE WERE FOUR FUEL ELEMENT FAILURES, INCLUDING THREE I&E NORMAL URANIUM AND ONE SOLID 94-METAL PIECES. THERE HAS NOT BEEN A MONTH WITH FEWER FUEL ELEMENT FAILURES SINCE DECEMBER 1954.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 154.3% OF FORECAST, WITH 90.6% OF THE TOTAL PRODUCED BY PUREX AND 9.4% BY REDOX. THIS TOTAL ESTABLISHES A NEW RECORD AT HANFORD.

PRODUCTION OF NORMAL UO_2 TOTALLED 500.3 TONS, 111.2% OF FORECAST; PRODUCTION OF ENRICHED UO_2 TOTALLED 93.4 TONS, 93.4% OF FORECAST.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - DESIGN IS 20% COMPLETE AND ON SCHEDULE. DESIGN MANPOWER - GENERAL ELECTRIC COMPANY 97; BURNS & ROE 94.

CONSTRUCTION OF THE TEMPORARY WATER LINE AND THE ACCESS ROAD WAS STARTED DURING THE MONTH. (SEE PART I, PAGE 10.)

CONFINEMENT - DESIGN IS 97% COMPLETE. (SEE PART I, PAGE 10.)

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 39% COMPLETE VS. 41% SCHEDULED. (SEE PART I, PAGE 11.)

PFPP - DESIGN IS 93% COMPLETE AND CONSTRUCTION IS 76% COMPLETE VS. 76% SCHEDULED. (SEE PART I, PAGE 11.)

COMMUNITY

DISPOSAL - 4,716 OF 4,806 HOUSES HAVE BEEN SOLD AND AN ADDITIONAL 73 GOOD FAITH DEPOSITS PLACED. (SEE PART II, PAGE 3.)

CITY OF RICHLAND ACCEPTED TRANSFER OF LIBRARY ON AUGUST 1, AND EXPECTS TO TAKE OVER ALL FUNCTIONS, WITH POSSIBLE EXCEPTION OF ELECTRICAL, ON OCTOBER 1. (SEE PART II, PAGE 4.)

PERSONNEL

ALVA M. WAGGONER PROMOTED TO ASSISTANT MANAGER FOR ADMINISTRATION TO REPLACE VERNE B. LEWIS WHO WAS GIVEN LEAVE OF ABSENCE TO ACCEPT ASSIGNMENT WITH THE BROOKINGS INSTITUTE. (SEE PART II, PAGE 4.)

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PLANT OPERATIONS

METAL PREPARATION

Canning - Net production of canned fuel elements totaled 521 Tons, 92.5% of forecast^{1/}. The total consisted of:

Normal Uranium		
Solid	65 Tons	88.0% Yield
I&E	414 Tons	85.0% Yield
94 Metal - I&E	42 Tons	83.0% Yield

The canning line time-operated efficiency was 93.2% compared to 94% forecast. Lower-than forecast time-operated efficiency and curtailment of scheduled operation of the fifth canning line caused production to fall below forecast. Start-up of the fifth canning line, which was scheduled for late July, was delayed because of low feed inventories. Four canning lines were operated on a two-shift, five-day-week basis during the month, and the fifth line was operated on a one-shift, five-day-week basis during the weeks of August 10 and 17.

At month end, the total inventory of canned fuel elements was approximately 670 Tons and varied by type from approximately 0.8 month's to 2.6 months' supply. The bare uranium inventory totaled approximately 610 Tons and varied by type from approximately 0.5 month's to 3.1 months' supply. The canning yields for all types of fuel elements continued to increase as a result of fewer braze layer integrity rejects.

Approximately 31,000 fuel elements were processed through the fuel recovery operation.

Autoclave Failures - One normal-uranium I&E fuel element failed in the autoclave as a result of a pinhole in the weld bead.

Scrap Shipments - There were no scrap shipments during the month.

Six containers made of eight-inch sections of steel tubing have been received to contain enriched scrap uranium for shipment to Fernald. The use of these containers will make it possible to ship both normal and enriched scrap uranium in the same boxcar, rather than in separate cars as has been previous practice.

REACTOR OPERATION

During August, reactor production rates in terms of index^{2/} were:

	<u>B</u>	<u>C</u>	<u>D</u>	<u>DR</u>	<u>F</u>	<u>H</u>	<u>KE</u>	<u>KW</u>	<u>Total</u>
Maximum Power Level During Month (Includes All Production)	79.0	89.7	78.5	80.0	77.0	80.2	165.5	165.5	815.5
Average Level While Operating (Includes All Production)	72.8	86.5	74.2	77.3	73.1	72.4	152.2	159.6	768.3
Time-Operated Efficiency	77.5	83.5	83.0	89.9	87.7	79.6	83.5	91.7	84.5

^{1/} Secret Doc. HAN-72782 Johnson/Travis dated July 24, 1959, subject "HAPO Production Forecast."

^{2/} Secret memorandum Bloch/Travis dated June 8, 1959, subject "Revision of Index Numbers," symbol FRP:EFG.

PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

A new record was established by in-reactor production for August, which was 113.5% of forecast^{1/}. This greater-than forecast production was possible because of low nonequilibrium losses and because of an average time-operated efficiency of 84.5% as compared with the 79% forecast. The higher-than-forecast time-operated efficiency resulted from less-than-expected outage time for tube replacement and from improved scram and rupture experiences. There were only six scrams during August, the lowest number ever experienced during eight-reactor operation. New monthly production records were established at DR and KW reactors. The over-all production efficiency^{2/} was 85.2%. At the end of the month, the factors limiting power levels were based on fuel element failure control at all reactors except D; at D reactor, the bulk outlet water temperature limit was the most restricting factor.

There were only four fuel element failures, including three I&E normal-uranium pieces and one solid 94-metal piece. There has not been a month with fewer fuel element failures since December, 1954, when there were three ruptures (including one J piece) with only six reactors in operation^{3/}.

The cumulative number of normal-uranium fuel element failure incidents is now 1,110, involving 1,130 pieces (including 55 I&E pieces). The cumulative number of 94-metal rupture incidents is now 63, involving 65 pieces, while the cumulative number of depleted-metal rupture incidents remains at 13, involving 13 pieces.

Following is a summary of August reactor outages:

<u>Date</u> <u>Down</u>	<u>Date</u> <u>Up</u>	<u>Outage</u> <u>Hours</u>	<u>Remarks</u>
<u>B Reactor:</u>			
8-4	8-7	89.4	Scheduled charge-discharge and maintenance.
8-7	8-7	0.8	Repair of a defective switch on an HCR.
8-24	8-27	77.5	Panellit trip. Completed charge-discharge and work on Projects CGI-791 (confinement) and CGI-817 (cross-header pressure differential indicators and alarm systems).
<u>C Reactor:</u>			
8-4	8-8	101.3	Scheduled charge-discharge and maintenance. Completed work on the installation of fog spray equipment.
8-8	8-8	5.0	Poison discharge.
8-8	8-9	0.6	Panellit trip.
8-31	Still Down		Scheduled maintenance work on rear-face thermocouple and front-face crossheader pressure differential equipment is in progress.

^{1/} Secret Doc. HAN-72782 Johnson/Travis dated 7/24/59, subject "HAPO Production Forecast."

^{2/} Production Efficiency = $\frac{\text{sum of 8 average power levels for the month}}{\text{sum of 8 average power levels while operating}}$

^{3/} In October, 1956, four normal-uranium pieces failed; in June, 1957, four normal-uranium pieces plus one C piece failed.

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PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

<u>Date Down</u>	<u>Date Up</u>	<u>Outage Hours</u>	<u>Remarks</u>
<u>D Reactor:</u>			
8-17	8-21	94.6	Scheduled charge-discharge and tube replacement.
8-21	8-21	2.9	Poison discharge.
8-22	8-23	29.9	Leak testing and miscellaneous maintenance.
<u>DR Reactor:</u>			
8-25	8-28	74.8	Leak testing. Completed charge-discharge, tube replacement, and miscellaneous maintenance.
8-28	8-28	0.3	Panellit trip.
<u>F Reactor:</u>			
8-6	8-8	37.7	Panellit trip. Completed work on installation of fog spray equipment.
8-21	8-23	54.1	Removal of a stuck I&E normal-uranium fuel element failure from tube 2453. Completed miscellaneous maintenance.
<u>H Reactor:</u>			
8-1	8-5	87.8	Removal of a solid 94-metal fuel element failure from tube 3395. Completed tube replacement and leak testing.
8-5	8-5	0.2	Panellit trip.
8-10	8-12	32.7	Leak testing.
8-21	8-23	30.9	Removal of a stuck I&E normal-uranium fuel element failure from tube 3790. Completed miscellaneous maintenance.
<u>KE Reactor:</u>			
7-30	8-1	30.6	Completed miscellaneous maintenance, following the removal of a production test fuel element failure from Loop 1.
8-24	8-27	75.2	Scheduled charge-discharge. Removed an I&E normal-uranium fuel element failure from tube 2384.
8-27	8-27	5.7	Poison discharge.
8-29	8-29	0.4	Panellit trip.
8-29	8-31	38.7	Manual trip for tube temperature control. Completed miscellaneous maintenance.
8-31	Still Down		Poison discharge

PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

<u>Date</u> <u>Down</u>	<u>Date</u> <u>Up</u>	<u>Outage</u> <u>Hours</u>	<u>Remarks</u>
<u>KW Reactor:</u>			
8-8	8-10	43.1	Loss of electrical power to a section of the temperature monitor caused by a short.
8-10	8-10	3.4	Poison discharge.
8-31	Still Down		Scheduled charge-discharge and installation of fog spray equipment.

Fuel Element Failures

Following is a tabulation of August fuel element failures:

<u>Tabulation of Ruptured Uranium Slugs</u>							
<u>Tube</u> <u>Number</u>	<u>Date</u> <u>Rupt.</u>	<u>Tube</u> <u>Power</u>	<u>Conc.</u> <u>(MWD/T)</u>	<u>Assigned Loss</u>		<u>Metal</u>	<u>Type</u> <u>Failure</u>
				<u>MWD</u>	<u>Days</u>		
Normal							
2453-F	8-21	581	886	649	.44	I&E	Side other.
3790-H	8-21	935	727	1544	1.06	I&E	Not determined.
2384-KE	8-24	1350	817	1547	.51	I&E	Not determined.
(94 metal)							
3395-H	8-1	691	946	327	.23	Solid	Split.

Thermal Hydraulic Studies

Laboratory experiments were initiated to determine the heat fluxes associated with boiling burnout for the existing reactors. At flow rates of 50 gpm, pressures of 25 psig, and water temperatures of 200°F, boiling burnout was first indicated at a flux of 1,250,000 BTU/hr/ft². At flow rates of 20 gpm, burnout was reached at 830,000 BTR/hr/ft². These values correspond to specific powers of about 250 and 150 KW/ft, respectively. It was noted that the temperature increases were not extreme and that stable operation could be maintained under burnout conditions.

1/ At time of rupture.

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PLANT OPERATIONS

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 154.3% OF FORECAST ^{1/}, WITH 90.6% OF THE TOTAL PRODUCED BY PUREX AND 9.4% BY REDOX. THIS TOTAL ESTABLISHES A NEW RECORD FOR HANFORD.

PUREX - THE PLANT PROCESSED A RECORD THROUGHPUT OF 629 TONS OF URANIUM DURING THE MONTH. OPERATIONS WERE CONTINUOUS, AND THE MECHANICAL PERFORMANCE OF THE PUREX EQUIPMENT WAS EXCELLENT.

THE ENTIRE AUGUST PLUTONIUM PRODUCTION WAS WITHIN SPECIFICATIONS WITH THE EXCEPTION OF ONE BATCH WHICH CONTAINED HIGH GAMMA ACTIVITY. ABOVE NORMAL GAMMA ACTIVITIES WERE EXPERIENCED IN THE FINAL URANIUM DECONTAMINATION CYCLE; HOWEVER, ALL URANIUM PRODUCT WAS WITHIN SPECIFICATIONS FOLLOWING SILICA-GEL TREATMENT OR BLENDING. THE SILICA-GEL FACILITIES PROCESSED A TOTAL OF 583 TONS OF URANIUM. ALL OUT-OF-SPECIFICATION PLUTONIUM AND URANIUM PRODUCED IN JUNE AND JULY WERE BLENDED OR REPROCESSED DURING THE MONTH.

A RECORD LOW AVERAGE PLUTONIUM WASTE LOSS OF 0.13% OF THROUGHPUT WAS ACHIEVED DURING THE MONTH. URANIUM WASTE LOSSES AVERAGED 0.06% OF THROUGHPUT. THREE WASTE BATCHES WERE REWORKED.

IODINE EMISSIONS AVERAGED 0.66 CURIES PER DAY.

REDOX - FOLLOWING THE PROCESSING OF 19 TONS OF NORMAL URANIUM, EQUIPMENT FLUSHING, AND THE PROCESSING OF REWORK MATERIAL, THE PLANT RESUMED OPERATION ON 94-METAL FEED MATERIAL ON AUGUST 10. STARTUP ON AUGUST 17, FOLLOWING THE SCHEDULED WEEKEND OUTAGE, WAS DELAYED FOR REPLACEMENT OF A CONDENSER VENT VALVE. A THIRTEEN-HOUR OUTAGE WAS NECESSARY ON AUGUST 18 TO REPAIR A PLUGGED LINE. PROCESSING OF 94 METAL CONTINUED AS SCHEDULED UNTIL AUGUST 27. WASTE MATERIAL WAS PROCESSED ON AUGUST 28, AND THE PLANT WAS SHUT DOWN FOR EXTENSIVE EQUIPMENT FLUSHES.

THE THREE DISSOLVERS OPERATED CONTINUOUSLY WITH THE EXCEPTION OF A BRIEF PERIOD EARLY IN THE MONTH WHEN FAILURE OF A JET ASSEMBLY HAMPERED DISSOLUTION OPERATIONS. SIX BATCHES OF ENRICHED METAL RANGING FROM 1.44% TO 1.74% WERE CHARGED TO THE C-2 DISSOLVER DURING THE LATTER PART OF THE MONTH. THIS MATERIAL WILL BE PROCESSED BY BLENDING WITH 94-METAL FEED MATERIAL.

DURING THE MONTH, THREE BATCHES OF UNH WERE OZONIZED AND PROCESSED THROUGH THE SILICA-GEL FACILITY. APPROXIMATELY 600 GRAMS OF PLUTONIUM REQUIRED REPROCESSING BECAUSE OF HIGH GAMMA ACTIVITY.

WASTE LOSSES AVERAGED 0.29% OF THE URANIUM THROUGHPUT AND 0.72% OF THE PLUTONIUM THROUGHPUT. A TOTAL OF TWENTY BATCHES OF WASTE MATERIAL WAS REWORKED.

IODINE EMISSIONS AVERAGED 0.097 CURIES PER DAY.

UO₃ - PLANT PRODUCTION OF NORMAL UO₃ TOTALED 500.3 TONS, 111.2% OF FORECAST. A TOTAL OF 93.4 TONS OF ENRICHED UO₃ WAS PROCESSED, 93.4% OF FORECAST.

ALL SHIPPING SCHEDULES FOR NORMAL URANIUM WERE MET. IN ADDITION, 93.4 TONS OF ENRICHED URANIUM WERE SHIPPED. ALL UO₃ SHIPPED MET PRODUCT SPECIFICATIONS.

THE PLANT OPERATED AS SCHEDULED UNTIL AUGUST 28 WHEN OPERATIONS WERE SUSPENDED FOR PREVENTIVE MAINTENANCE.

A PROGRAMMER PROTOTYPE WHICH WILL AUTOMATICALLY CONTROL TEMPERATURE AND FLOW CONDITIONS DURING STARTUP AND SHUTDOWN OF THE CALCINERS WAS INSTALLED ON ONE UNIT. PLANT TESTS HAVE SHOWN THAT THE AUTOMATIC STARTUPS AND SHUTDOWNS ARE SUPERIOR TO THE BEST ATTAINED WITH MANUAL OPERATION.

RESEARCH AND DEVELOPMENT

PCTR MEASUREMENTS - FURTHER CONFIDENCE IN THE RESULTS OF PCTR MEASUREMENTS RESULTED FROM COMPLETION OF INFINITE MULTIPLICATION FACTOR MEASUREMENTS BY OAK RIDGE NATIONAL LABORATORIES USING CRITICALITY TECHNIQUES. THEIR RESULTS ARE IN AGREEMENT WITH PCTR MEASUREMENTS ON THE SAME MATERIAL, UF₄ MODERATED WITH PARAFFIN.

GETR GRAPHITE IRRADIATIONS - THE FIRST TWO GRAPHITE EXPERIMENTS IN THE GETR, H-1 AND H-2, WERE DISCHARGED FOLLOWING A FAILURE ON AUGUST 18 OF THE REACTOR INSTRUMENT SUPPORT BRACKET SHORTLY AFTER THE CIRCULATION SYSTEM WAS STARTED AND BEFORE THE REACTOR HAD GONE CRITICAL. THE INSTRUMENT

^{1/} SECRET DOCUMENT HAN-72762, JOHNSON/TRAVIS, DATED JULY 24, 1959, SUBJECT "HAPO PRODUCTION FORECAST."

PLANT OPERATIONS (CONT'D)

RESEARCH AND DEVELOPMENT (CONT'D)

BRACKETS WERE LOCATED WITHIN THE PRESSURE VESSEL AS PART OF THE REACTOR TO SUPPORT LONG INSTRUMENT LEADS. THIS WAS THE FIRST TIME THAT THEY HAD BEEN PLACED IN SERVICE. WHEN THEY FAILED, THE THERMOCOUPLE CONDUITS WERE SHEARED AND ALLOWED WATER TO ENTER THE CAPSULES. THE CAPSULES HAVE BEEN RETURNED TO HANFORD, AND THE GRAPHITE SAMPLES RECOVERED AND REPROCESSED. NEW CAPSULES WERE BUILT AND CHARGED DURING THE SEPTEMBER 1 SHUTDOWN. SUBSEQUENT PERFORMANCE HAS BEEN GOOD. IT IS STILL PLANNED TO EXPOSE THE CAPSULES THROUGH THREE REACTOR CYCLES; SO THE SCHEDULED TIME FOR REMOVAL IS NOW LATE NOVEMBER.

PALM FABRICATION - PALM CAMPAIGN VI WAS BEGUN AUGUST 29. SHIPMENT OF ELEMENTS IS PLANNED FOR EARLY SEPTEMBER.

EFFORTS DURING THE MONTH WERE CONFINED LARGELY TO DEVELOPMENT WORK. THE COMPACTING STEP WAS ELIMINATED, AND A TECHNIQUE FOR PRODUCING A SATISFACTORY FRONT-END CONFIGURATION OF THE ELEMENT WITHOUT THE USE OF AN Al_2O_3 -AL END CAP MIXTURE WAS DEVELOPED.

PRODUCTION OF ELEMENTS CONTAINING HIGHER-THAN-NORMAL AMOUNTS OF PALM OXIDE HAS CAUSED DIFFICULTY IN THAT EXCESSIVE DOGBONING OCCURS TOWARD THE REAR END OF THE ELEMENTS. URANIUM OXIDE MOCKUP ELEMENTS OF THE SAME CONCENTRATION HAVE BEEN EXTRUDED WITH SOME SUCCESS. RESEARCH AND DEVELOPMENT WORK ON THE ELIMINATION OF THIS DOGBONING TENDENCY IS IN PROGRESS.

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PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

CG-772, MULTIPURPOSE DISSOLVER - REDOX - DETAILED DESIGN WAS STARTED EARLY IN AUGUST WITH COMPLETION EXPECTED IN MID-SEPTEMBER. DESIGN WAS 10% COMPLETE AT THE END OF AUGUST.

CG-789, ADDITIONAL FIRE PROTECTION 234-5 BUILDING - THE BID PACKAGE FOR THE SPRINKLER SYSTEM WAS COMPLETED AUGUST 31. TOTAL DETAILED DESIGN IS 45% COMPLETE.

CGI-791, CONFINEMENT OF RADIOACTIVE PARTICULATE MATTER IN 105 BUILDING EXHAUST AIR - DESIGN IS 97% COMPLETE -- PHASE I (FOG SPRAY) IS COMPLETE; PHASE II (VENTILATION FILTRATION) IS 98% COMPLETE; AND PHASE III (TIE-INS) IS 92% COMPLETE.

DRAWINGS FOR THE LUMP SUM CONTRACT FOR THE FILTER BUILDINGS ARE TO BE COMPLETED EARLY IN SEPTEMBER. SPECIFICATIONS, SPECIAL CONDITIONS, AND ACCEPTANCE TEST PROCEDURES ALREADY ARE COMPLETE.

SPECIFICATIONS FOR FILTERS ARE BEING FIRMED UP. TESTING FOR DIOCTYLTHALATE PENETRATION, FIRE RESISTANCE, AND OPERATION UNDER SEVERE HUMIDITY CONDITIONS ARE TO BE CARRIED OUT LOCALLY TO INSURE THE RECEIPT OF OPERABLE UNITS.

DESIGN IS PROVIDING FOR A REMOTELY CONTROLLED FIRE NOZZLE ON THE REACTOR REAR FACE. THIS NOZZLE WILL PROVIDE A WATER STREAM TO LOOSEN FUEL ELEMENTS LODGED ON THE REAR FACE AND TO QUENCH ANY FLAME THAT MAY OCCUR.

REVISION NO. 3 TO THE PROJECT PROPOSAL WAS RECEIVED AND IS BEING APPROVED.

THIS REVISION PROVIDES CONSTRUCTION FUNDS FOR THE LUMP SUM FILTER BUILDING AND FOR PROCUREMENT OF 105 BUILDING VENTILATION EQUIPMENT. PHASES I, II, AND III ARE TO BE COMPLETED BY APRIL 1961.

CGC-811, ADDITIONAL PLUTONIUM FABRICATION FACILITIES - 234-5 BUILDING - DETAILED DESIGN IS 70% COMPLETE.

CAI-816, NEW PRODUCTION REACTOR - DESIGN IS 20% COMPLETE AND ON SCHEDULE. GENERAL ELECTRIC'S DESIGN IS 19% COMPLETE BEING 3% AHEAD OF SCHEDULE, WHILE BURNS & ROE'S DESIGN IS 21% COMPLETE AND 5% BEHIND SCHEDULE. ENGINEERING MANPOWER WAS: GENERAL ELECTRIC - 97; BURNS & ROE - 94.

THE FOLLOWING DESIGN CRITERIA WERE APPROVED DURING THE MONTH:

- A. IRRADIATED METAL HANDLING FACILITIES.
- B. NONIRRADIATED METAL HANDLING FACILITIES.
- C. HEATING VENTILATING AND AIR CONDITIONING.
- D. ROD AND SHIELD COOLING WATER SUPPLY SYSTEM.
- E. 100-N DESIGN BASES PART II.

FEDERAL POWER COMMISSION POWER CONVERSION STUDIES: AGREEMENT HAS BEEN REACHED ON WHAT PORTIONS OF THE STUDY WILL BE CONTRIBUTED BY BURNS & ROE, WHAT PORTIONS WOULD BE SUPPLEMENTED BY AEC AND GE, AND WHAT PORTIONS WOULD BE LEFT UP TO THE FPC. BASICALLY, BURNS & ROE WILL DO THE ENGINEERING FOR THE POWER PLANT, THE FPC WILL PROVIDE THE ECONOMIC STUDY, AND THE AEC AND GE WILL PROVIDE THE NUCLEAR INFORMATION NECESSARY.

KAISER ENGINEERS - CONTRACT AT(45-1)-1455

SC-3 - L. W. VAIL STARTED CONSTRUCTION ON THE ACCESS ROAD AUGUST 17, 1959.

SC-2 - J. P. HEAD STARTED CONSTRUCTION ON THE TEMPORARY WATER LINE ON AUGUST 3, 1959.

CAH-822, PRESSURIZED GAS-COOLED LOOP FACILITY - DESIGN OF THE OUT-OF-PILE PORTION IS UNDER WAY BY THE STRUTHERS WELLS COMPANY, LOW BIDDER ON DESIGNING AND FURNISHING THIS EQUIPMENT. THE IN-PILE PORTION WILL BE DESIGNED BY THE GENERAL ELECTRIC COMPANY.

CGC-830, PLANT MODIFICATIONS FOR REPROCESSING NONPRODUCTION REACTOR FUELS - CONTRACT HAS BEEN SIGNED WITH THE VITRO ENGINEERING COMPANY TO PERFORM DESIGN. THE PROJECT MANAGER IS TO VISIT HANFORD EARLY IN SEPTEMBER. DEFINITIVE SCOPE IS 20% COMPLETE.

CGI-839, MODIFICATION OF FUEL ELEMENT TEST FACILITIES, 1706-KER - DESIGN IS 10% COMPLETE. CRITERIA AND SCOPE DRAWINGS HAVE BEEN PREPARED, AND DRAFT SPECIFICATIONS FOR THE PUMPS ARE BEING REVIEWED.

CGC-843, DISPOSAL FACILITIES FOR UO₂ PROCESS CONDENSATE - DESIGN OF A NEW CRIS IS BEING HELD IN ABEYANCE PENDING COMPLETION OF A STUDY OF THE POSSIBILITY OF DISPOSING THIS WASTE STREAM TO A SWAMP WITHOUT THE TREATMENT CONTEMPLATED BY THE ORIGINAL PROJECT.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PROJECT AND DESIGN STUDIES (CONT'D)

CGC-850, PUREX 216-A-4 CRIB REPLACEMENT - DESIGN AND THE BID ASSEMBLY ARE COMPLETE.

CGC-872, PALMOLIVE - TITLE I DESIGN IS UNDER WAY. A PROJECT PROPOSAL COVERING DESIGN AND CONSTRUCTION HAS BEEN TRANSMITTED TO WASHINGTON FOR APPROVAL.

ISOTOPE RECOVERY FACILITIES - PROJECT PROPOSALS FOR BOTH INTERIM AND LONG-RANGE PROGRAMS ARE BEING PREPARED. AN INTERIM PROGRAM INCLUDES PUREX HEAD-END AND LOAD-OUT FACILITIES AND ADDITIONS TO THE 325 BUILDING WITH SHIPPING CASKS FOR BOTH FACILITIES.

LANDSCAPING OF CIVIC CENTER, RICHLAND - DETAILED DESIGN DRAWINGS AND SPECIFICATIONS HAVE BEEN TRANSMITTED TO THE CITY OF RICHLAND FOR CONTRACTING FOR CONSTRUCTION. AEC WILL TERMINATE ITS CONTRACT WITH THE A-E AT COMPLETION OF DETAILED DESIGN.

PLANT CONSTRUCTION

MAJOR CONSTRUCTION - THE STATUS OF MAJOR CONSTRUCTION IS INDICATED BELOW:

PROJECT	PROJECT PROPOSAL NUMBER	MAJOR PROJECTS				DESIGN % ACTUAL COMPL.	PRESENT WORKING ESTIMATE (THOUSANDS)
		ACTUAL STARTING DATE	CONSTRUCTION SCHED. COMPL. DATE	COMPLETION			
				% SCHED.	% ACTUAL		
PRTTR	AEC-167	3-6-58	8-30-60	41	39	100	\$12,750
PUREX WASTE FACILITY	CG-719	8-27-58	11-30-59	99	99	100	1,068
RMC BUTTON LINE, 234-5	CG-734	2-18-58	1-31-60	93	92	100	1,480
PU. FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	76	76	93	4,000
HIGH LEVEL RADIOCHEM. FACILITY	CA-749	8-14-58	1-1-60	86	96	100	960
MET. DEV. FAC., 306 BLDG. ADDITION	CA-744	3-20-59	9-1-60	11	11	99	2,685
REACTOR CONFINEMENT	CG-791	3-31-59	6-15-60		8*	97	1,800**
306 BLDG. PILOT PLANT	CG-810	1-29-59	4-1-60	7	13	100	755
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	9	16	100	1,000

* REVISED PROJECT PROPOSAL CAUSED A REDUCTION IN PERCENTAGE.

**PORTION OF TOTAL CONFINEMENT PROJECT

AEC-167, PLUTONIUM RECYCLE TEST REACTOR - THE CALANDRIA WAS MOVED FROM THE VENDOR'S PLANT TO HANFORD PRIOR TO ITS COMPLETION BECAUSE OF THE STEEL STRIKE. J. A. JONES WILL COMPLETE THE WORK ON SITE.

CG-731, CRITICAL MASS LABORATORY - CONTRACT AT(45-1)-1446 - HOWARD S. WRIGHT - THE CONTRACTOR IS HAVING DIFFICULTY IN PURCHASING STAINLESS STEEL MATERIALS. THE STEEL STRIKE IS AFFECTING PROCUREMENT OF THE ROOF JOISTS AND DECKING.

CA-744, METALLURGICAL DEVELOPMENT FACILITY - CONTRACT AT(45-1)-1440 - 306 BUILDING ADDITION - JENSEN-RASMUSSEN - IN AN ATTEMPT TO REGAIN THE RATE STIPULATED BY HIS CONSTRUCTION SCHEDULE, THE CONTRACTOR STARTED TWO-SHIFT OPERATIONS ON AUGUST 3, 1959.

CA-747, PLUTONIUM FABRICATION PILOT PLANT - CONTRACT AT(45-1)-1433 - GEORGE A. GRANT - THE CONTRACTOR HAS COMPLETED CONSTRUCTION AND TESTING OF THE SWAGE, BILLET LATHE, 30 KW FURNACE, WELDING HOODS, RADIOGRAPHY AREA, AND AUTOCLAVE EQUIPMENT, HOODS AND ROOMS.

CGH-790, HIGH LEVEL RADIOACTIVE MATERIAL RECEIVING AND STORAGE ADDITION, 327 BUILDING - CONTRACT AT(45-1)-1442 - JENSEN-RASMUSSEN - A LABOR DISPUTE IN THE H. H. ROBERTSON PLANT IS HOLDING UP DELIVERY OF SIDING AND ROOF DECKING.

CAH-828, CENTRAL STORAGE FACILITY, 300 AREA - CONTRACT AT(45-1)-1468 - RAYMOND J. BRITTON - THE CONTRACTOR STARTED WORK ON AUGUST 3, 1959.

CAR-833, PATROL BARRICADE STATION - CONTRACT AT(45-1)-1463 - ESTEP LINE CONSTRUCTION - THIS CONTRACT WAS COMPLETED ON AUGUST 10, 1959.

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DOCUMENT NO. 73270

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PROCUREMENT

A CONTRACT WAS SIGNED WITH THE WOLVERINE TUBE DIVISION, OF CALUMET AND HECLA, INC., FOR THE PURCHASE OF 7,000 FEET OF ZIRCALOY TUBING TO BE USED ON PROJECT AEC-167 FOR THE AMOUNT OF \$94,864.00.

THERE WERE 289 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$333,039.42 PLACED BY THE ATOMIC ENERGY COMMISSION DURING THE MONTH OF AUGUST.

NINETEEN AWARDS MADE BY GENERAL ELECTRIC WERE APPROVED IN THE AMOUNT OF \$1,482,370.00. AMONG THE LARGER ORDERS WERE THE FOLLOWING:

F. J. STOKES CORPORATION, PHILADELPHIA, PENNSYLVANIA (VACUUM INDUCTION CASTING FURNACES) - PROJECT CG-811 - \$189,700.00.

WASHINGTON IRON WORKS, SEATTLE, WASHINGTON (TEST CELL ASSEMBLY) - CGH-805, \$48,190.00.

GAETNER SCIENTIFIC CORPORATION (UNDERWATER EXAMINATION EQUIPMENT) - CA-744, \$69,032.00.

CONTRACTS

FOUR CONTRACT AWARDS WERE MADE DURING THE MONTH OF AUGUST. THE THREE LARGER AWARDS ARE LISTED BELOW:

CONTRACT AT(45-1)-1474 - GATE CITY STEEL - \$229,579 - ERECTION "FUEL CLADDING FACILITY."

CONTRACT AT(45-1)-1475 - VITRO ENGINEERING COMPANY - A-E SERVICES FOR DESIGN OF A NON-PRODUCTION FUEL REPROCESSING FACILITY - \$44,500 ESTIMATED FEE.

CONTRACT AT(45-1)-1473 - GEORGE A. GRANT - PLUTONIUM RECOVERY FACILITY - \$149,800.

TRAFFIC AND TRANSPORTATION

ON AUGUST 13, 1959, THE EXECUTIVE COMMITTEE OF THE TRANSCONTINENTAL FREIGHT BUREAU MEETING IN CHICAGO APPROVED A FREIGHT RATE REDUCTION ON URANIUM OXIDE MOVING FROM HANFORD TO PADUCAH AND OAK RIDGE. THE REDUCTION IS SUBJECT TO AND EFFECTIVE UPON CONCURRENCE OF THE SOUTHERN FREIGHT ASSOCIATION. THE LOWER RATES PER HUNDRED WEIGHT WILL BE \$2.50 TO PADUCAH AND \$2.76 TO OAK RIDGE, A REDUCTION OF \$0.31 AND \$0.28, RESPECTIVELY. ON PRESENT TRAFFIC VOLUME A SAVINGS OF ABOUT \$50,000 PER YEAR WILL RESULT FROM THIS RATE REDUCTION.

[REDACTED]

TO: Director, Division of Production
USAEC, Washington 25, D. C.

FROM: J. E. Travis, Manager, Hanford Operations
Office, USAEC, Richland, Washington

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:HRE

SEP 14 1959

Enclosed herewith is Part II [REDACTED]
of subject report for the month of AUG, 1959.
[REDACTED] Part I, is forwarded as a separate
report.

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

AUGUST 1959

PART 11

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

AUGUST 1959

PART II

C O N T E N T S

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<u>PERSONNEL (ON-SITE)</u>	4
<u>LABOR RELATIONS</u>	5

COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR AUGUST 1959:

	<u>AUGUST 1</u>	<u>AUGUST 31</u>
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	216	166
1. TOTAL HOUSES OCCUPIED	127	95
2. TOTAL HOUSES UNOCCUPIED	89	71
(A TOTAL OF 3,768 HOUSES AND 945 DUPLEXES SOLD - 5,658 UNITS)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	134	133
2. TOTAL APARTMENTS UNOCCUPIED	0	1
C. THREE DORMITORIES ARE NOW IN OPERATION BY A COMMERCIAL OPERATOR.		

PRIVATE HOUSING UNITS (WHERRY ACT):

	<u>COLUMBIA HEIGHTS</u>	<u>HOUSES</u>	<u>APTS.</u>	<u>SPOKANE HOUSING</u>	<u>HOUSES</u>	<u>APTS.</u>	<u>TOTAL UNITS</u>
TOTAL UNITS	280	220		400	100		1,000
RENTED	126	137		398	91		752
VACANT	154	83		2	9		248

THE SPOKANE OFFICE OF FHA ADVISED THAT SPOKANE HOUSING, INC. MAY ASK TO PAY OFF THE MORTGAGE ON THE APARTMENTS ON GEORGE WASHINGTON WAY SO THEY WILL BE FREE TO CONVERT THEM TO A MOTEL OPERATION.

DISPOSAL - THE HHFA OPENED 34 BIDS ON 39 FLOOD PLAIN PARCELS ON AUGUST 25, 1959.

THE 15 PRIORITIES ON THE LAST 15 SINGLE HOUSES WERE CERTIFIED TO HHFA,

THE HHFA OFFERED ONE DUPLEX TO SHUT-OUT TENANTS ON AUGUST 7, 1959, AND TEN DUPLEXES TO RESIDENTS; NINE COMMERCIAL PROPERTIES WERE ALSO OFFERED.

BIDS ON COMMERCIAL AND INDUSTRIAL PROPERTIES WERE OPENED BY HHFA ON AUGUST 10, 1959. THERE WERE 25 BIDDERS; 11 WERE SUCCESSFUL ON 15 PROPERTIES.

THE REPORT OF SALES FOR THE MONTH OF AUGUST IS AS FOLLOWS:

	<u>TOTAL</u>	<u>SALES CLOSED</u>		<u>UNSOLD</u>	<u>GOOD FAITH</u>
	<u>INVENTORY</u>	<u>PAST MONTH</u>	<u>TOTAL</u>		<u>DEPOSITS</u>
<u>PRIORITY PROPERTIES</u>					
SINGLE HOUSES	3,788	12	3,770	18	12
DUPLEX HOUSES	1,018	31	946	72	61
COMMERCIALS	128	2	16	112	15
CHURCHES	6	2	5	1	1
NON-PROFIT	7	0	0	7	1
RESIDENTIAL LOTS	97	0	97	0	0
DORMITORY SITES	2	0	0	2	0
WHERRY SITES	5	0	0	5	0
<u>BID PROPERTIES</u>					
APARTMENTS	17	0	0	17	0
RESIDENTIAL LOTS	106	0	48	58	0
RESIDENTIAL TRACTS	85	13	40	45	9
COMMERCIALS	24	0	0	24	4
INDUSTRIALS	37	0	0	37	10
FLOOD PLAIN	39	0	0	39	0
<u>TOTAL</u>	<u>5,359</u>	<u>60</u>	<u>4,922</u>	<u>437</u>	<u>113</u>

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COMMUNITY OPERATIONS (Cont'd)

COMMERCIALS - THE U. S. ATTORNEY MOVED FOR DISMISSAL OF THE CASE BROUGHT BY CHARLES WELLS FOR DECLARATORY JUDGMENT TO RULE THAT SIGNING OF LEASE IS AN IMPROVEMENT FOR WHICH CREDIT SHOULD BE GIVEN. FEDERAL JUDGE POWELL DISMISSED THE CASE.

JACK HOUSTON SECURED A FIVE-WEEK EXTENSION, IN FEDERAL COURT, FOR THE PURCHASE OF THE AMERICAN LEGION BUILDING. LATER IN THE MONTH THE NEWSPAPERS SAID THAT JACK HOUSTON IS PLANNING TO BUILD BOWLING ALLEYS ON THE LOT HE BOUGHT ON WELLSIAN WAY, WHICH IMPLIES HE WILL NOT PROCEED WITH HIS PLAN TO PURCHASE THE AMERICAN LEGION BUILDING.

FRED DARNELL, APPRAISER FROM SEATTLE, COMPLETED APPRAISAL ON THE FIRE-DAMAGED CAMPBELL'S GROCERY AND BAKERY. THE LOCAL HHFA OFFICE RECEIVED THE RESULTS IN APPRAISED PRICE FROM THE WASHINGTON OFFICE OF FHA.

REAL ESTATE - A COPY OF JUDGE LINDBERG'S ORDER WAS RECEIVED REMANDING THE WAHLUKE SLOPE CASES TO THE COMMISSIONERS FOR THEM TO AMEND AND ENLARGE THEIR FINDINGS AS TO EACH TRACT, AND TO REPORT ON THE WEIGHT GIVEN THE EVIDENCE.

MUNICIPAL - COPIES OF E. J. BLOCH'S SPEECH TO THE SUBCOMMITTEE ON COMMUNITIES OF THE JOINT COMMITTEE ON ATOMIC ENERGY, ESTABLISHING ADDITIONAL GUIDES TO BE USED IN DETERMINING THE ANNUAL AMOUNTS DEEMED JUST AND REASONABLE, WERE GIVEN TO THE MAYOR, CITY MANAGER, AND EACH COUNCILMAN.

THE CITY MANAGER, ON AUGUST 14, 1959, ADVISED HOO THAT THE CITY WISHES TO TAKE OVER ALL CITY PROPERTIES, WITH THE EXCEPTION OF ELECTRICAL, ON OCTOBER 1, 1959.

THE DEED AND BILL OF SALE FOR THE LIBRARY PROPERTY WERE DELIVERED TO THE CITY CLERK ON AUGUST 3, 1959. THE DEED AND BILL OF SALE WERE EFFECTIVE AUGUST 1.

A SUBDIVISION ORDINANCE, ALLOWING APPROVAL OF PLOTS ON RECENTLY SOLD PROPERTY, WAS APPROVED BY THE CITY COUNCIL ON AUGUST 24, 1959.

PAYMENT IN THE AMOUNT OF \$107,514 WAS MADE TO THE CITY OF RICHLAND UNDER SECTION 91 OF THE ATOMIC ENERGY COMMUNITY ACT OF 1955. THE AMOUNT REPRESENTS THE ESTIMATED CASH REQUIREMENTS FOR AUGUST, AS REQUESTED BY THE CITY OF RICHLAND AND REVIEWED AND APPROVED BY HOO.

ARRANGEMENTS HAVE BEEN MADE FOR HOO TO AUDIT THE CITY'S FINANCIAL RECORDS PRIOR TO THE END OF CALENDAR YEAR 1959.

THE CALENDAR YEAR 1960 BUDGET FOR THE CITY OF RICHLAND WILL BE SUBMITTED TO BENTON COUNTY IN THE SECOND WEEK OF OCTOBER 1959.

PERSONNEL (ON-SITE)

	<u>AUGUST 1</u>	<u>AUGUST 31</u>
ATOMIC ENERGY COMMISSION	273	275
GENERAL ELECTRIC COMPANY	8,030	8,009
TOTAL CONSTRUCTION PERSONNEL	<u>524*</u>	<u>822</u>
TOTAL PROJECT PERSONNEL	<u>8,827</u>	<u>9,106</u>

KEY PERSONNEL CHANGES:

DONALD J. GIER REASSIGNED FROM ALOD TO CHIEF, SERVICES BRANCH.
JOHN H. KREMA REASSIGNED FROM 100 TO DEPUTY DIRECTOR, CE&S DIVISION.
VERNE B. LEWIS, ASST. MANAGER FOR ADMINISTRATION GIVEN LEAVE OF ABSENCE TO ACCEPT AN ASSIGNMENT WITH THE BROOKINGS INSTITUTION.
FREDERICK RUTT, JR. PROMOTED TO CHIEF, CONTRACTOR PERSONNEL BRANCH.
ALVA M. WAGGONER PROMOTED TO ASST. MANAGER FOR ADMINISTRATION.
REX L. RAY PROMOTED TO DIRECTOR, FINANCE DIVISION
LLOYD D. WEIR REASSIGNED FROM ASST. TO THE MANAGER TO PUBLIC INFORMATION OFFICER.
IRVING L. LIND REASSIGNED FROM DEPUTY DIRECTOR, CE&S DIVISION TO INDUSTRIAL LIAISON ENGINEER IN THE OFFICE OF THE MANAGER.

*LOW FIGURE DUE TO THREE-WEEK WORK STOPPAGE DURING JULY.

[REDACTED]

LABOR RELATIONS

ON AUGUST 24, 1959, THE NATIONAL LABOR RELATIONS BOARD ISSUED A COMPLAINT AGAINST THE IBEW LOCAL UNION NO. 77 AS A RESULT OF THE CHARGES FILED BY J. A. JONES AND SHAW & ESTES DURING THE RECENT WORK STOPPAGE. A HEARING BEFORE A TRIAL EXAMINER WILL BE HELD IN BUILDING W-10 SEPTEMBER 9 - 12. THE RESULTS OF THE HEARING WILL BE REVIEWED BY THE BOARD TO DETERMINE WHETHER A CEASE AND DESIST ORDER SHOULD BE ISSUED.

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**DATE
FILMED**
8/3/92