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

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

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:RHL

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Enclosed herewith is Part I ([REDACTED]) of subject report for the month of SEP 1960. The [REDACTED] portion, 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

SEPTEMBER 1960

PART 1

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

SEPTEMBER 1960

PART I

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HIGHLIGHT STATEMENT - SEPTEMBER 1960

OPERATIONS

THE NET PRODUCTION OF CANNED FUEL ELEMENTS WAS 594 TONS. THIS WAS 104.2% OF FORECAST AND CONSISTED OF 514 TONS OF 1&E NORMAL URANIUM AND 80 TONS OF 1&E 94 METAL. YIELDS WERE 88.2% FOR NORMAL AND 86.7% FOR 94 METAL.

IN-REACTOR PRODUCTION TOTALLED 108.3% OF FORECAST. THE OVER-ALL REACTOR TIME-OPERATED EFFICIENCY WAS 83.0%. THERE WERE THREE FUEL ELEMENT FAILURES - TWO 1&E NORMAL URANIUM AND ONE 94 METAL.

TOTAL SEPARATION PLANT PLUTONIUM PRODUCTION WAS 111.8% OF FORECAST, WITH 94.8% OF THE TOTAL PRODUCED BY PUREX AND 5.2% BY REDOX.

PRODUCTION OF NORMAL UO_3 TOTALLED 643 TONS, 98.9% OF FORECAST. NO 94 UO_3 WAS SCHEDULED FOR PRODUCTION THIS MONTH. ALL SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 90.9% COMPLETE VS. 90.9% SCHEDULED.

REACTOR CONFINEMENT - DESIGN IS 99% COMPLETE AND CONSTRUCTION IS 58% COMPLETE VS. 59% SCHEDULED.

NEW PRODUCTION REACTOR - DESIGN IS 75% COMPLETE AND CONSTRUCTION IS 6.5% COMPLETE VS. 9.0% SCHEDULED.

OTHER

ARMY DEACTIVATES MISSILE UNITS AT HANFORD.

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DOCUMENT NO. HAN-76688 *De 2*PLANT OPERATIONSMETAL PREPARATION

CANNING - THE NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALLED 594 TONS, 104.2% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM - 1&E	514 TONS	88.2% YIELD
94 METAL - 1&E	80 TONS	86.7% YIELD

FIVE CANNING LINES OPERATED ON TWO SHIFTS ON A FIVE-DAY-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 93.9%.

AT THE END OF THE REPORTING PERIOD, THE COMBINED INVENTORY OF BARE, IN-PROCESS, AND FINISHED ACCEPTABLE NORMAL-URANIUM FUEL ELEMENTS FOR ROUTINE PRODUCTION MODELS VARIED BY TYPE FROM 3.0 TO 4.2 MONTHS' SUPPLY. THE COMBINED INVENTORY FOR 94-METAL PIECES VARIED BY TYPE FROM 2.0 TO 3.2 MONTHS' SUPPLY. THE INVENTORY OF CAPS AND CANS AT MONTH END WAS 3.9 MONTHS' SUPPLY.

AUTOCLAVE FAILURES - THERE WERE NO FAILURES DURING AUTOCLAVE TESTING IN SEPTEMBER.

SCRAP SHIPMENTS - NO SCRAP SHIPMENTS WERE MADE IN SEPTEMBER.

REACTOR OPERATION

DURING SEPTEMBER, REACTOR PRODUCTION IN TERMS OF INDEX ^{2/} WAS:

	<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)	67.0	75.2	66.2	66.4	67.0	67.0	144.2	143.2	696.2
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	60.3	72.3	63.1	62.8	64.5	63.8	140.6	139.7	667.1
TIME-OPERATED EFFICIENCY	78.6	79.5	67.7	77.7	90.6	87.0	94.5	88.7	83.0

IN-REACTOR PRODUCTION WAS 108.3% OF FORECAST ^{1/}. THE OVER-ALL TIME-OPERATED EFFICIENCY WAS 83.0% AS COMPARED WITH A FORECAST FIGURE OF 82%. THE PRODUCTION EFFICIENCY ^{3/} WAS 85.0%.

EQUILIBRIUM POWER LEVELS WERE LIMITED PRIMARILY BY FUEL ELEMENT FAILURE CONTROL AT C, KE, AND KW REACTORS AND BULK OUTLET WATER TEMPERATURE LIMITATIONS AT B, D, DR, F, AND H REACTORS.

FUEL ELEMENT FAILURES - THERE WERE THREE FUEL ELEMENT FAILURES DURING SEPTEMBER. OF THESE, TWO WERE 1&E NORMAL URANIUM AND ONE WAS AN 1&E 94 METAL. THIS REPRESENTS THE BEST RUPTURE EXPERIENCE SINCE NOVEMBER 1959. THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,204, INVOLVING 1,224 PIECES (137 1&E). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 86, INVOLVING 88 PIECES.

EQUIPMENT EXPERIENCE - A TOTAL OF 88 PROCESS TUBES WAS REPLACED: 74 AT D, 7 AT DR, 3 AT B, 3 AT H, AND 1 AT KW. FIVE WATER LEAKS WERE CORRECTED: 3 TUBE LEAKS, 1 EACH AT B, D, AND H, AND TWO VAN STONE LEAKS, 1 AT B AND 1 AT DR.

ON SEPTEMBER 11, THE COIL IN NO. 2 PUMP MOTOR AT DR BURNED OUT. THIS COIL AND ONE IN EACH OF THE OTHER TWO PHASES WERE BYPASSED AND THE PUMP RETURNED TO SERVICE ON SEPTEMBER 13.

REACTOR EFFLUENT WATER INVESTIGATIONS - THE EFFLUENT TREATMENT TESTS AT 107-D, WHERE THE EFFLUENT WATER IS BEING PASSED THROUGH A BED OF ALUMINUM TURNINGS, HAVE ADVANCED FROM TESTS WHICH LARGELY DUPLICATED LABORATORY WORK TO TESTS AT HIGHER FLOW RATES. THE INITIAL TESTS SHOWED THE SAME EFFICIENCIES FOR REDUCTION OF CRITICAL ISOTOPES AS DID THE LABORATORY TESTS. DOSE RATES FROM THE SIDES OF THE TANK INCREASED FROM 300 MR/HOUR TO 800 MR/HOUR WHEN THE FLOW RATE WAS DOUBLED. THIS INDICATES THAT THE EFFICIENCY FOR DETAINING THE SHORTER LIVED NUCLIDES WAS NOT REDUCED BY THE CHANGE IN FLOW.

^{1/} DOCUMENT HW-66052 (HAN-76057) JOHNSON/TRAVIS, DATED JULY 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

^{2/} DOCUMENT HAN-76029 QUINN/TRAVIS, DATED JULY 20, 1960, SUBJECT "REVISION OF INDEX NUMBERS."

^{3/} PRODUCTION EFFICIENCY = $\frac{\text{SUM OF 9 AVERAGE POWER LEVELS FOR THE MONTH}}{\text{SUM OF 8 AVERAGE POWER LEVELS WHILE OPERATING}}$

PLANT OPERATIONS (CONT'D)REACTOR OPERATION (CONT'D)REACTOR EFFLUENT WATER INVESTIGATIONS (CONT'D)

A HALF-REACTOR TEST AT 100-H SUBSTITUTING ALUMINUM NITRATE FOR ALUMINUM SULFATE IN PROCESS WATER TREATMENT WAS STARTED SEPTEMBER 16. THIS TEST IS INTENDED TO DEMONSTRATE THE AMOUNT OF REDUCTION IN THE OUTPUT OF PHOSPHORUS-32 THAT CAN BE ACHIEVED BY REMOVING MORE THAN 90% OF THE PHOSPHORUS AND HALF THE SULFUR FROM THE INFLUENT WATER. THE FEED RATE WAS INCREASED FROM 12 PPM AT THE START OF THE TEST TO 25 PPM ON SEPTEMBER 21. SINCE THAT TIME, THE PH OF THE PROCESS WATER ON THE TEST SIDE HAS BEEN CONTROLLED BY ADJUSTING THE ALUMINUM NITRATE FEED. THIS TEST CONTINUES IN PROGRESS; NO CONCLUSIONS HAVE BEEN REACHED YET.

ANOTHER HALF-REACTOR TEST WAS STARTED AT 100-B ON SEPTEMBER 16. THIS TEST DUPLICATES THE TEST AT 100-H EXCEPT THAT THE SULFUR IN THE INFLUENT WATER IS NOT REDUCED. THE FEED RATE OF ALUM ON THE TEST SIDE WAS INCREASED TO 10 PPM ON SEPTEMBER 16 AND FURTHER INCREASED UNTIL IT REACHED 20 PPM ON SEPTEMBER 22. IT WILL REMAIN AT THAT LEVEL FOR THE DURATION OF THE TEST.

PROJECTION FUEL TESTING - FIVE COLUMNS OF SELF-SUPPORTED FUEL ELEMENTS (INCLUDING SPIDER-SUPPORT DESIGN) WERE CHARGED INTO RIBBLESS TUBES IN B REACTOR, BRINGING THE TOTAL TO NINE COLUMNS IN REACTOR.

NO ADDITIONAL INSTALLATION OF ZIRCONIUM TUBES WAS MADE IN C REACTOR. THE TOTAL OF 69 ZIRCONIUM TUBES UNDERWENT NORMAL IRRADIATION PRACTICES WITHOUT INCIDENT DURING THE PAST MONTH.

TWENTY COLUMNS OF SOLID RAIL BUMPER FUEL ELEMENTS WERE CHARGED INTO D REACTOR DURING THE SEPTEMBER 11 OUTAGE. TEN OF THESE COLUMNS CONTAINED FOUR-RAIL SLUGS. ALSO CHARGED WERE TEN COLUMNS OF THREE-RAIL SLUGS IN WHICH THE RAIL BETWEEN THE RIBS WAS OMITTED TO PERMIT THE USE OF POISON SPLINES. THERMOCOUPLE PROBES WERE INSERTED IN THE DOWNSTREAM DUMMY PATTERNS OF SIX OF THE THREE-RIBBED COLUMNS TO DETERMINE THE EFFECT OF THIS DESIGN ON TEMPERATURE UNIFORMITY IN THE COOLANT.

REACTOR OUTAGES

<u>REACTOR</u>	<u>DATE DOWN</u>	<u>DATE UP</u>	<u>OUTAGE HOURS</u>	<u>REMARKS</u>
B	8-27	9-3	177.8	CONCLUDED CHARGE-DISCHARGE, TUBE REPLACEMENT, AND DOWNCOMER MODIFICATION WITH HIGH TANK FLUSHING AND REAR FACE DECONTAMINATION.
	9-4	9-4	1.2	TRIP DUE TO INSUFFICIENT CONTROL ROD TO ACHIEVE TURNAROUND.
	9-11	9-12	42.8	WATER LEAK. TUBE 2492 REPLACED.
	9-18	9-20	38.2	WATER LEAK. TUBE 1684 REPLACED.
	9-20	9-20	1.7	REPLACED TWO FRONT CONNECTORS LEAKING AT FITTINGS.
C	9-4	9-8	99.1	SCHEDULED CHARGE-DISCHARGE, LEAK TESTING, AND MISCELLANEOUS MAINTENANCE.
	9-23	9-25	48.6	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 1486 AND CHARGE-DISCHARGE.
D	9-4	9-5	38.6	WATER LEAK, CHARGE-DISCHARGE, AND TUBE 3761 REPLACED.
	9-12	9-18	157.7	SCHEDULED CHARGE-DISCHARGE, TUBE REPLACEMENT, BALL 3X MODIFICATIONS, AND DOWNCOMER MODIFICATION.
	9-24	9-25	36.2	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 1960 AND CHARGE-DISCHARGE.
DR	9-8	9-11	84.5	CHARGE-DISCHARGE AND TUBE REPLACEMENT.
	9-19	9-20	35.6	WATER LEAK AND LEAK TESTING.
	9-25	9-27	40.6	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 0684 AND CHARGE-DISCHARGE.
F	8-30	9-3	93.2	CHARGE-DISCHARGE, HIGH TANK FLUSHING, AND LEAK TESTING.
H	9-6	9-9	57.3	CHARGE-DISCHARGE AND HIGH TANK FLUSHING.
	9-13	9-14	35.8	WATER LEAK. TUBE 4383 REPLACED.
	9-15	9-15	0.2	PANELLIT TRIP.
	9-29	9-29	0.2	PANELLIT TRIP.
KE	9-9	9-11	39.7	LEAK ON FRONT HEADER OF KER LOOP 3, CHARGE-DISCHARGE, AND THE INSTALLATION OF THE FOUNDATION COOLING SYSTEM.
KW	9-6	9-8	35.7	PANELLIT TRIP AND CHARGE-DISCHARGE.
	9-29	9-30	45.6	SCHEDULED CHARGE-DISCHARGE.

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REACTOR OPERATION (CONT'D)

FUEL ELEMENT FAILURES

TABULATION OF RUPTURED URANIUM SLUGS							
TUBE NO.	DATE RUPTURED	TUBE POWER ^{1/}	CONCENTRATION (MWD/T)	ASSIGNED LOSS		METAL	TYPE FAILURE
				MWD	DAYS		
(NORMAL)							
1486-C	9-23	1084	577	987	0.55	I&E	HOT SPOT.
1960-D	9-24	1055	640	1088	0.69	I&E	HOT SPOT.
(94 METAL)							
0684-DR	9-25	830	118	439	0.28	I&E	MECH. DAMAGE.

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 111.8% OF FORECAST ^{2/}. PUREX SEPARATED 94.8% OF THIS WHILE REDOX SEPARATED 5.2%.

PUREX - OPERATIONS WERE CONTINUOUS THROUGHOUT THE MONTH. A NEW PRODUCTION RECORD WAS ESTABLISHED BY PROCESSING 783 TONS OF URANIUM. THE RECORD WAS DUE TO HIGH OPERATING AND HIGH MECHANICAL EFFICIENCIES. DECONTAMINATION EFFICIENCIES WERE MUCH IMPROVED OVER THOSE OF THE PAST SEVERAL MONTHS.

THE INTERIM STRONTIUM-90 RECOVERY PROGRAM WAS INITIATED THIS MONTH. THE PROGRAM IS BASED ON THE SEPARATION OF SR-90 FROM FISSION PRODUCT WASTES BY MEANS OF SULFATE PRECIPITATION WITH LEAD SULFATE AS THE CARRIER FOLLOWED BY A CARBONATE METATHESIS STEP FOR DECONTAMINATION, REMOVING THE CERIUM AND RARE EARTHS FRACTION. THIS PROCESSING IS DONE CONCURRENTLY WITH NORMAL PRODUCTION. IN-PLANT TESTS CONDUCTED DURING THE MONTH INDICATE RECOVERY YIELDS OF 60% TO 70% ARE POSSIBLE.

WASTE LOSSES FOR THE MONTH TOTALLED 0.06% OF THE URANIUM THROUGHPUT AND 0.44% OF THE PLUTONIUM THROUGHPUT.

THE RELEASE OF RADIOACTIVE IODINE TO THE ATMOSPHERE WAS HIGH DURING THE FIRST TWENTY DAYS OF OPERATION BUT DECREASED SHARPLY (BY A FACTOR OF 15) WHEN PROCESSING RATES WERE REDUCED AND SPECIAL AGED MATERIAL WAS PROCESSED IN CONJUNCTION WITH THE STRONTIUM-90 PROGRAM. ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE AVERAGED 1.4 CURIES PER DAY.

REDOX - REDOX PROCESSED 49 TONS OF NORMAL URANIUM DURING SEPTEMBER.

REPLACEMENT OF THE D-14 BACKCYCLE CONCENTRATOR WAS COMPLETED, AND OPERATIONS RESUMED ON SEPTEMBER 5. ON SEPTEMBER 14, A PARTITION CYCLE FAILURE DUE TO PLUGGING OF THE 2D COLUMN CAUSED A PLANT SHUTDOWN. OPERATIONS WERE AGAIN RESUMED ON SEPTEMBER 19 AND CONTINUED UNTIL SEPTEMBER 21. THE PLANT WAS DOWN THE REST OF THE MONTH FOR THE SEMIANNUAL 60% NITRIC ACID FLUSH OF PROCESS EQUIPMENT. THE FLUSH RECOVERED 8.6 KG OF PLUTONIUM AND 0.95 TONS OF URANIUM.

WASTE LOSSES FOR SEPTEMBER WERE 1.16% OF THE PLUTONIUM THROUGHOUT AND 0.26% OF THE URANIUM THROUGHPUT. THE ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE AVERAGED 0.31 CURIE PER DAY.

UO₃ - OPERATIONS WERE CONTINUOUS THROUGHOUT THE MONTH. PRODUCTION TOTALLED 643 TONS OF NORMAL URANIUM, 98.9% OF FORECAST, FOR SEPTEMBER. ALL SHIPPING SCHEDULE COMMITMENTS WERE MET. NO 94 POWDER WAS SCHEDULED FOR PRODUCTION OR SHIPMENT THIS MONTH.

NEPTUNIUM PROCESSING - NO ACTIVITIES FOR THE MONTH.

RESEARCH AND DEVELOPMENT

^{1/} AT TIME OF RUPTURE.

^{2/} DOCUMENT HW-66052 (HAN-76057) JOHNSON/TRAVIS, DATED JULY 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

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PLANT OPERATIONS (CONT'D)

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RESEARCH AND DEVELOPMENT (CONT'D)

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PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

CAI-816, NEW PRODUCTION REACTOR - SCOPE WAS APPROVED FOR THE RADIOACTIVE WASTE DISPOSAL SYSTEM, HIGH-LIFT PUMP HOUSE, HELIUM LEAK DETECTION SYSTEM, AND REVISION NO. 1 TO THE FLOW MONITOR SYSTEM.

BURNS AND ROE IS INVESTIGATING 19 DIFFERENT CASES OF TURBINE-GENERATOR COMBINATIONS FOR THE UPDATING OF THE FPC REPORT. THE CASES ARE BEING STUDIED UNDER FOUR DIFFERENT CRITERIA: (1) THE BEST OVER-ALL ECONOMY, (2) LONG PLUTONIUM PERIOD, (3) SHORT PLUTONIUM PERIOD, AND (4) MINIMUM INITIAL INSTALLATION.

DEVELOPMENT WORK IS BEING CONDUCTED TO DETERMINE THE SIZING AND HARDWARE DESIGN FOR THE PRIMARY COOLANT DUMP SYSTEM. THIS SYSTEM WILL DUMP PRIMARY COOLANT AT OPERATING PRESSURE AND TEMPERATURE IN ORDER TO DEPRESSURIZE THE PRIMARY LOOP FOR EMERGENCY USE OF RAW WATER AS COOLANT. THIS WOULD BE NECESSARY IN THE EVENT OF COMPLETE LOSS OF BOTH BPA AND LOCALLY GENERATED ELECTRICAL POWER OR IN THE EVENT OF A VERY MAJOR RUPTURE IN THE COOLANT PIPING SYSTEM. THE HOT COOLANT IS TO BE DUMPED INTO A CONCRETE STORAGE BASIN PARTIALLY FILLED WITH AMBIENT TEMPERATURE WATER. THE DEVELOPMENT WORK WILL DETERMINE THE SIZE OF THE BASIN AND QUANTITY OF WATER REQUIRED AS WELL AS A DIFFUSER DESIGN FOR THE HOT LIQUID. IT WILL ALSO DETERMINE VALVE SEALS SUITABLE FOR SUCH INTERMITTENT SERVICES.

CGI-791, REACTOR CONFINEMENT - DESIGN IS 100% COMPLETE. THE A. D. LITTLE COMPANY'S REPORT COVERING HALOGEN REMOVAL WAS MADE AVAILABLE IN QUANTITY AND DISTRIBUTED DURING THE WEEK OF SEPTEMBER 26.

DEVELOPMENT HAS BEEN INITIATED TO PROVIDE FIELD TESTING EQUIPMENT FOR CHECKING THE INTEGRITY OF FILTER INSTALLATIONS. THE PROPOSED METHOD IS AN ADAPTATION OF A TECHNIQUE USED BY NAVAL RESEARCH LABORATORY.

CAH-822, PRESSURIZED GAS-COOLED LOOP FACILITY - COMPLETION HAS BEEN EXTENDED TO JUNE 30, 1961, BECAUSE OF DELAY IN ARRIVAL OF EQUIPMENT. OUT-OF-PILE EQUIPMENT DELIVERY IS BEING DELAYED DUE TO DIFFICULTIES EXPERIENCED BY BRISTOL SIDDELEY, ENGLAND, IN FABRICATING THE GAS COMPRESSORS.

CGC-830, PLANT MODIFICATIONS FOR REPROCESSING NONPRODUCTION REACTOR FUELS - THE CASK-TRANSFER AND FUELS-STORAGE FACILITIES DESIGN IS 100% COMPLETE. DESIGN FOR THE DISSOLUTION FACILITY IS 50% COMPLETE AND FOR THE MECHANICAL PROCESSING FACILITY IS 57% COMPLETE. WORK ON THIS PROJECT HAS BEEN CURTAILED TO DESIGN ONLY.

CGI-839, MODIFICATION OF FUEL ELEMENT TEST FACILITIES, 1706-KER - DESIGN IS 100% COMPLETE. THE BID PACKAGE FOR THE HOT SHOP IS BEING PREPARED. ADVANCE NOTICE TO BIDDERS HAS BEEN ISSUED.

CAF-847, NEW FUEL CLADDING FACILITY - DETAILED DESIGN IS 63% COMPLETE AND IS PROCEEDING ON PROCESS EQUIPMENT. DESIGN FOR THE CHEMICAL AREA IS COMPLETE. REQUISITIONS HAVE BEEN PREPARED FOR ALMOST ALL MAJOR PROCESS EQUIPMENT EXCEPT HEAT TREATING, CUT UP, BILLET HEATING, AND BRAZE CLOSURE EQUIPMENT.

CAH-866, SHIELDED ANALYTICAL LABORATORY - DESIGN EFFORT IS PROGRESSING SATISFACTORILY WITH DETAILED DESIGN 80% COMPLETE VERSUS 62% SCHEDULED. DESIGN IS BEING CARRIED OUT BY B. D. BOHNA AND COMPANY AT THEIR SAN FRANCISCO OFFICE.

CAH-867, FUEL ELEMENT RUPTURE TEST FACILITY - DESIGN IS 39% COMPLETE VERSUS 33% SCHEDULED. AN A-E CONTRACT FOR THE WATER TREATMENT PLANT AND EFFLUENT HOLDUP TANK HAS BEEN NEGOTIATED WITH CORNELL, HOWLAND, HAYES, AND MERRYFIELD OF CORVALLIS, OREGON.

CGI-883, INCREASED PROCESS WATER FLOW, 100-K AREA - DESIGN IS 33% COMPLETE. THE FIRST OF ELEVEN LOW-LIFT PUMP MOTORS IS BEING REWOUND IN THE VENDOR'S PLANT.

CGC-895, EXPANSION TO 4.0 CAPACITY FACTOR - PUREX - THE SCOPING DOCUMENT IS BEING CIRCULATED FOR APPROVAL. IT NOW APPEARS THAT A STRUCTURAL ADDITION FOR A NEW COMPRESSOR WILL BE REQUIRED.

CGH-907, STRONTIUM-90 INTERIM PROGRAM AND CGC-909, STRONTIUM-90 INTERIM STORAGE FACILITIES - DESIGN ON CGH-907 FOR THE REACTIVATION OF THE HOT SEMIWORKS WAS STARTED ON SEPTEMBER 6 AND CONSTRUCTION WAS STARTED ON SEPTEMBER 9. BENEFICIAL USE OF THE INTERIM STORAGE FACILITIES UNDER CGC-909 WAS OBTAINED ON SEPTEMBER 17.

CGE-908, INCREASED CAPACITY OF SEVEN 230-KV OIL CIRCUIT BREAKERS 100-K AREA - THE DIRECTIVE HAS BEEN ISSUED FOR THIS WORK.

CGC-913, PROJECT BIRCH - REDOX - A PROPOSAL FOR TITLES I AND II DESIGN HAS BEEN APPROVED.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION

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

MAJOR PROJECTS							
PROJECT	PROJECT PROPOSAL NUMBER	ACTUAL STARTING DATE	CONSTRUCTION		DESIGN	PRESENT WORKING ESTIMATE (THOUSANDS)	
			SCHED. COMPL. DATE	COMPLETION			% ACTUAL COMPL.
				% SCHED.	% ACTUAL		
PRTR	AEC-167	3-6-58	6-30-61*	90.9**	90.9	100	\$ 13,500
REACTOR CONFINEMENT	CGI-791	3-31-59	12-31-61	59.0	58.0	99	5,180***
ADD'L PU FAB. FAC., 234-5 BLDG.	CGC-811	8-24-59	7-1-61	82.0	77.0	100	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	9.0	6.5	75	145,000
MOD. OF FUEL ELEMENT TEST FAC., 1706-KER	CGI-839	2-1-60	10-30-61	2.1	2.1	100	2,100
NEW FUEL CLADD. FAC.	CAF-847	7-27-59	10-1-61	17.0	16.0	67	3,600

* REVISED PROJECT PROPOSAL DATE FOR MAINTENANCE AND MOCK-UP FACILITY.

** BASED ON THE REVISED SCHEDULE NOT YET APPROVED BY WASHINGTON.

***ESTIMATE EXCLUDES SECOND BANK OF FILTERS.

LABOR: FITTERS FOR THE STANDARD PLUMBING & HEATING COMPANY, WHO IS A SUBCONTRACTOR OF THE J. A. JONES CONSTRUCTION COMPANY ON THEIR CPFF WORK, WALKED OFF THE JOB IN A JURISDICTIONAL DISPUTE WITH THE SHEET METAL WORKERS AT 8:00 A.M., SEPTEMBER 12, 1960, AND DID NOT RETURN TO WORK UNTIL 8:00 A.M. OCTOBER 3. (SEE LABOR RELATIONS, PART II)

PROJECTS WHICH WERE AFFECTED BY THIS WALKOUT ARE LISTED BELOW:

CGI-791 - REACTOR CONFINEMENT, PHASE III
CGC-811 - ADDITIONAL PLUTONIUM FABRICATION FACILITIES, J. A. JONES PORTION
AEC-167 - PLUTONIUM RECYCLE TEST REACTOR, PHASE III-A
CGC-789 - ADDITIONAL FIRE PROTECTION, 234-5, J. A. JONES PORTION

PROJECT AEC-167, PLUTONIUM RECYCLE TEST REACTOR, PHASE III, CONTRACT AT(45-1)-1410, SHAW & ESTES, INC. - FIELD WORK ON THE SHAW & ESTES, INC., CONTRACT WAS COMPLETED ON SEPTEMBER 12, 1960. ALL OF THE REMAINING WORK ON PHASE III WILL BE COMPLETED BY CPFF CONTRACTOR J. A. JONES UNDER THEIR CONTRACT AT(45-1)-687.

PROJECT CGI-791, REACTOR CONFINEMENT

PHASE II-B, REACTOR EXHAUST AIR DECONTAMINATION FACILITIES, 100 AREAS, J. A. JONES CONSTRUCTION COMPANY, CONTRACT AT(45-1)-687

100-F AREA - APPLICATION OF THE PLY-ON COATING AND INSTALLATION OF THE BULKHEAD DOORS ARE COMPLETE.

100-B AREA - THE FILTER BUILDING ROOF SLAB AND PARAPET WALL WERE PLACED.

100-DR AREA - THE TOP DECK OF THE FILTER BUILDING, THE SAMPLE BUILDING FOUNDATION AND FLOOR SLABS, AND THE CELL COVER SLABS HAVE BEEN PLACED.

100-D AREA - THE DECK OF THE AIR DUCT HAS BEEN PLACED, AND THE FILTER FRAME INSERTS HAVE BEEN INSTALLED.

100-H AREA - THE PLY-ON COATING IN THIS AREA HAS BEEN ESSENTIALLY COMPLETED.

100-C AREA - THE UNDERGROUND INSTRUMENT PIPING, FROM THE SAMPLE BUILDING TO THE FILTER BUILDING, WAS COMPLETED AND TESTED; APPLICATION OF PLY-ON WAS STARTED.

PHASE III, J. A. JONES CONSTRUCTION COMPANY, CONTRACT AT(45-1)-687

100-F AREA - INSTALLATION OF THE SECOND EXHAUST FAN MOTOR AND DRIVE WAS COMPLETED.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION (CONT'D)PROJECT CAI-816, NEW PRODUCTION REACTOR, KAISER ENGINEERSDESIGN:GENERAL ELECTRIC COMPANY, TITLE I

ESTIMATED COST	\$890,000
ACTUAL COST TO OCTOBER 1	760,000
COMPLETION SCHEDULED	100%
COMPLETION ACTUAL	99.7%
ENGINEERS ASSIGNED	6

GENERAL ELECTRIC COMPANY AND BURNS & ROE, INC. - TITLE II

	<u>G. E.</u>	<u>BURNS & ROE</u>
ESTIMATED COST	\$4,000,000	\$4,000,000
ACTUAL COST TO OCTOBER 1	2,600,000	2,891,000
COMPLETION SCHEDULED	70%	65%
COMPLETION ACTUAL	71%	79%
PRESENT WORK FORCE	83	126
TOTAL MAN-DAYS TO DATE	36,113	48,180
TOTAL ESTIMATED MAN-DAYS REQUIRED	60,000	58,000
NUMBER OF DRAWINGS REQUIRED	2,200	726
CONSTRUCTION DRAWINGS - SCHEDULED	1,658	611
CONSTRUCTION DRAWINGS - ACTUAL	1,639	677
NUMBER OF SPECIFICATIONS REQUIRED	115	165
NUMBER OF SPECIFICATIONS - ACTUAL	81	111
NUMBER OF REQUISITIONS REQUIRED	400	176
NUMBER OF REQUISITIONS - SCHEDULED	224	106
NUMBER OF REQUISITIONS - ACTUAL	136	117
OVER-ALL DESIGN - SCHEDULED		68%
OVER-ALL DESIGN - ACTUAL		75%

GENERAL ELECTRIC COMPANY AND BURNS & ROE, INC. - TITLE III

ESTIMATED COST	\$1,570,000	\$1,060,000
COST TO DATE, OCTOBER 1	75,000	83,000
ENGINEERS ASSIGNED	7	13

CONSTRUCTION:CONCRETE (MAJOR CONTRACTS)

<u>CONTRACT</u>	<u>CONTRACTOR</u>	<u>BUILDING</u>	<u>YARDS THIS MO.</u>	<u>TOTAL TO DATE</u>	<u>EST. TOTAL AMOUNT</u>
SC-10	JENSEN-RASMUSSEN	181-N	277	8,616	8,870
SC-16	SOUND CONSTRUCTION	105-N	3,008	8,696	16,794
	"	109-N	1,414	4,789	17,260
SC-26	"	163-N	100	503	
	"	183-N	72	489	4,563
SC-29	GEORGE A. GRANT, INC.	184-N	148	916	936
SC-35	MOWAT BROS. CONSTR.	151-153-N	155	696	860
TOTAL CONCRETE			5,442	26,445	92,663

CONCRETE PLACEMENT:

181-N BUILDING - OPERATING FLOOR SLAB OVER CELLS 1, 2, 3 AND 4
 163-N AND 183-N - THE EFFLUENT FLUME
 105-N - STORAGE BASIN FOUNDATION SLAB
 105-N AND 109-N - CONCRETE IN FOOTINGS AND WALLS
 153-N - BASEMENT FLOOR SLAB
 151-N - BUILDING ROOF SLAB

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION (CONT'D)PROJECT CA1-816, NEW PRODUCTION REACTOR, KAISER ENGINEERS (CONT'D)SUBCONTRACTS

	<u>NOS.</u>	<u>DOLLAR VALUE</u>	<u>TOTAL DOLLAR VALUE</u>
COMPLETED -----	16	\$ 995,000	
UNDER WAY -----	51	18,759,000	
SUBTOTAL -----	67		\$19,754,000
BIDS UNDER REVIEW -----	7	1,255,000	
OUT FOR BID -----	1	292,000(EST.)	
SUBTOTAL -----	8		1,547,000
IN PREPARATION FOR BID -----	20	4,288,000(EST.)	
TO BE PREPARED FOR BID -----	6	24,218,000(EST.)	
SUBTOTAL TO BE PREPARED FOR BIDS -----	26		28,506,000
TOTAL SUBCONTRACTS	101		49,807,000(EST.)

PROCUREMENT:ENGINEERED EQUIPMENT

	<u>NOS.</u>	<u>DOLLAR VALUE</u>	<u>TOTAL DOLLAR VALUE</u>
ORDERS PLACED ---	131		\$31,071,000
BIDS UNDER REVIEW -----	30	\$ 5,489,000	
OUT FOR BID -----	25	1,719,000(EST.)	
REQ. IN PREPARATION FOR BIDS -----	5	788,000(EST.)	
SUBTOTAL IN PROCESS	60		7,996,000
TOTAL ORDERS PLACED OR IN PROCESS -----	191		39,067,000
REQ. NOT ISSUED BY A-E'S (EST.) -----	284		7,811,000
TOTAL FOR ENGINEERING EQUIP. (EST.) -----	475		46,878,000
TOTAL OF PROCUREMENT ORDERS PLACED FOR ENGINEERING EQUIP. AND MISC. CONSTR. MATERIAL -----	1,482		32,373,000
ENGINEERING EQUIPMENT INCLUDED UNDER SUBCONTRACTS	7		4,650,000

PROCUREMENT (FOR PERIOD COVERING AUGUST 26 THROUGH SEPTEMBER 30, 1960)

THE ATOMIC ENERGY COMMISSION APPROVED 19 AWARDS MADE BY GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$339,910.71.

FIVE AWARDS MADE BY KAISER ENGINEERS WERE APPROVED BY THE ATOMIC ENERGY COMMISSION IN THE TOTAL AMOUNT OF \$288,273.00.

THE ATOMIC ENERGY COMMISSION PROCESSED 307 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$1,491,535.25.

CONTRACT ACTIONS

THREE CONSTRUCTION CONTRACTS WERE AWARDED BY THE ATOMIC ENERGY COMMISSION DURING THE MONTH OF SEPTEMBER FOR THE TOTAL AMOUNT OF \$1,179,235. THESE AWARDS ARE AS FOLLOWS:

1. ADDITIONS TO PRTR FACILITIES AND RELATED WORK, GEORGE A. GRANT, INC. ----- \$633,730
2. INTERIOR CONSTRUCTION AND RELATED WORK, BUILDING NO. 333, TELLER CONSTRUCTION COMPANY ----- 523,900
3. TEST WELLS AND WATER PRODUCTION WELLS, 200-E AREA, HATCH DRILLING COMPANY --- 21,635

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AIR MAIL

OCT 14 1960

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

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

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:RHL

Enclosed herewith is Part II ("Official Use Only" portion)
of subject report for the month of SEP 1960.
The "Secret" portion, Part I, is forwarded as a separate
report.

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

- 10 Copies - Addressee
- 1 Copy - Construction Engineering & Supply Division
- 1 Copy - Process Engineering & Manufacturing Division
- 1 Copy - Security Division
- 1 Copy - Mr. Raymond C. Phillips, Regional Audit
- 1 Copy - Classified Files (Reading File)
- 1 Copy - AEC Records Center
- 1 Copy - Budget Division

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AIR MAIL

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

SEPTEMBER 1960

PART II

[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

SEPTEMBER 1960

PART II

C O N T E N T S

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

COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR SEPTEMBER 1960:

	<u>SEPTEMBER 1</u>	<u>SEPTEMBER 30</u>
A. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	129	131
2. TOTAL APARTMENTS UNOCCUPIED	5	3

B. ALL HOUSES HAVE BEEN SOLD.

C. THREE PRIVATELY OWNED DORMITORIES ARE NOW IN OPERATION.

PRIVATE HOUSING UNITS (WHERRY ACT):

	<u>COLUMBIA HEIGHTS</u>		<u>SPOKANE HOUSING</u>		<u>TOTAL UNITS</u>
	<u>HOUSES</u>	<u>APTS.</u>	<u>HOUSES</u>	<u>APTS.</u>	
TOTAL UNITS	280*	220	400	100	1,000*
RENTED		107	396	97	600
VACANT		113	4	3	120

*FHA HAS SOLD ALL BUT SEVEN OF THE COLUMBIA HEIGHTS (BAUER-DAY) HOUSES, AND TWO OF THESE ARE BEING RETAINED TEMPORARILY FOR STORAGE.

SCHOOLS:

THE \$2,000,000 BOND ISSUE TO BUILD NEW HIGH SCHOOL FACILITIES WAS APPROVED AT THE SEPTEMBER 13 PRIMARY ELECTION WITH APPROXIMATELY 65%, OF THOSE VOTING, IN FAVOR OF THE PROPOSITION.

DISPOSAL:

HHFA HELD A BID OPENING ON TEN COMMERCIAL PROPERTIES WHICH PRIORITY HOLDERS REFUSED TO PURCHASE. ACCEPTABLE BIDS WERE RECEIVED ON FOUR OF THE PROPERTIES.

THE REPORT OF SALES FOR THE MONTH ENDING SEPTEMBER 30, 1960, IS AS FOLLOWS:

	<u>TOTAL INVENTORY</u>	<u>SALES CLOSED</u>		<u>UNSOLD</u>	<u>GOOD FAITH DEPOSITS</u>
		<u>PAST MONTH</u>	<u>TOTAL</u>		
<u>PRIORITY PROPERTIES</u>					
SINGLE HOUSES	3,788	0	3,788	0	0
DUPLEX HOUSES	1,018	0	1,018	0	0
COMMERCIALS	127	7	74	53	4
CHURCHES	6	0	6	0	0
NON-PROFITS	7	0	4	3	1
RESIDENTIAL LOTS	97	0	97	0	0
DORMITORY SITES	0	0	0	0	0
WHERRY SITES	1	0	0	1	0
<u>BID PROPERTIES</u>					
APARTMENTS	17	0	0	17	2
RESIDENTIAL LOTS	108	2	84	24	1
RESIDENTIAL TRACTS	87	4	77	10	2
COMMERCIALS	24	0	6	18	1
INDUSTRIALS	41	1	24	17	4
FLOOD PLAINS	39	0	39	0	0
	<u>5,360*</u>	<u>14</u>	<u>5,217</u>	<u>143</u>	<u>15</u>

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COMMUNITY OPERATIONS (CONT'D)

MUNICIPAL:

ON SEPTEMBER 19, 1960, THE CITY COUNCIL APPROVED PRELIMINARY BUDGET FOR CALENDAR YEAR 1961, WHICH CALLS FOR EXPENDITURES OF \$4,037,691. THE BUDGET ANTICIPATES A PAYMENT OF \$522,794 BY AEC, WHICH HQO CONSIDERS TO BE GREATLY OVERESTIMATED, BECAUSE OF CONTINGENCIES IN THE DEPARTMENT ESTIMATES.

THE CITY OF RICHLAND WAS ADVISED THAT AEC WILL NOT MAKE JUST AND REASONABLE ASSISTANCE PAYMENTS IN EXCESS OF \$150,000 FOR THE BALANCE OF CALENDAR YEAR 1960.

A TOTAL OF 185 BUILDING AND IMPROVEMENT PERMITS WAS ISSUED BY THE CITY DURING THE MONTH, IN THE AMOUNT OF \$532,380.

WORK WAS STARTED ABOUT SEPTEMBER 20 ON A 45-UNIT MOTEL ON GEORGE WASHINGTON WAY.

TRAILERS ARE BEGINNING TO MOVE INTO THE UNFINISHED TRAILER PARK AT SPENGLER ROAD.

REAL ESTATE:

THE WASHINGTON OFFICE OF GENERAL SERVICES ADMINISTRATION HAS GIVEN NOTICE TO PROCEED WITH DESIGN FOR THE FEDERAL BUILDING AT RICHLAND TO THE ARCHITECTURAL FIRM OF CULLER, GALE, MARTELL, NORRIE AND DAVIS OF SPOKANE. REPRESENTATIVES OF THIS FIRM CAME TO RICHLAND ON SEPTEMBER 20 TO VIEW THE SITE.

ON SEPTEMBER 26, 1960, ARMY AUTHORITIES ADVISED THE HANFORD OPERATIONS OFFICE THAT THE NIKE SURFACE-TO-AIR MISSILE UNITS AT CAMP HANFORD WILL BE PLACED ON NON-OPERATION STATUS ON OCTOBER 1, 1960, AND WILL SOON BE INACTIVATED. COMPLETE CLOSURE OF CAMP HANFORD IS EXPECTED AND ITS TRANSFER TO AEC IS BEING CONSIDERED.

PERSONNEL (ON-SITE)

	<u>SEPTEMBER 1</u>	<u>SEPTEMBER 30</u>
ATOMIC ENERGY COMMISSION -----	291	290
GENERAL ELECTRIC COMPANY -----	7,992	7,950
TOTAL CONSTRUCTION PERSONNEL -----	<u>1,528</u>	<u>1,763</u>
TOTAL PROJECT PERSONNEL -----	<u>9,811</u>	<u>10,003</u>

LABOR RELATIONS

J. A. JONES - PIPE FITTER WORK STOPPAGE. PIPE FITTERS EMPLOYED BY STANDARD PLUMBING AND HEATING, CPFF MECHANICAL SUBCONTRACTOR OF J. A. JONES, WHO WALKED OFF THE JOB ON SEPTEMBER 19 IN PROTEST OVER ASSIGNMENT BY JONES OF CERTAIN WORK TO THE SHEET METAL WORKERS RETURNED TO WORK ON OCTOBER 3. DURING THE WORK STOPPAGE AN UNFAIR LABOR PRACTICE CHARGE AGAINST THE PIPE FITTERS WAS FILED WITH THE NLRB BY J. A. JONES. EVEN THOUGH THE PIPE FITTERS HAVE RETURNED TO WORK THE COMPANY HAS REQUESTED THE BOARD TO CONTINUE PROCESSING THE CHARGE. IN THE MEANTIME THE INTERNATIONAL OFFICES OF BOTH UNIONS HAVE BEEN REQUESTED TO RESOLVE THE CONTROVERSY BY ARRIVING AT A JURISDICTIONAL SETTLEMENT COVERING THE DISPUTED WORK.

GE-HAMTC NEGOTIATIONS. NEGOTIATIONS ARE CONTINUING BETWEEN GE AND THE HAMTC IN AN EFFORT TO REACH AGREEMENT ON A NEW COLLECTIVE BARGAINING CONTRACT BETWEEN THE PARTIES. THE UNION FILED A 30-DAY CONTRACT TERMINATION NOTICE WITH THE COMPANY ON SEPTEMBER 29. CONSEQUENTLY, IF NO AGREEMENT IS REACHED ON A NEW CONTRACT BY OCTOBER 29, THE PRESENT CONTRACT (WHICH CONTAINS A NO-STRIKE PROVISION) BETWEEN THE PARTIES WILL BE TERMINATED AND THE UNION WILL BE FREE TO TAKE STRIKE ACTION TO ENFORCE ITS BARGAINING DEMANDS. THE HAMTC HAS ALSO REQUESTED THE INTERVENTION AND ASSISTANCE OF THE FEDERAL MEDIATION AND CONCILIATION SERVICE IN THE CONDUCT OF FUTURE NEGOTIATIONS BETWEEN THE COMPANY AND THE UNION COMMENCING OCTOBER 24.

END

**DATE
FILMED**

9/17/92