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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

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

JUNE 1960

PART I

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

JUNE 1960

PART I

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HIGHLIGHT STATEMENT - JUNE 1960

OPERATIONS

THE NET PRODUCTION OF CANNED FUEL ELEMENTS WAS 699 TONS. THIS WAS 111.1% OF FORECAST AND CONSISTED OF 40 TONS OF SOLID AND 562 TONS OF I&E NORMAL-URANIUM, AND 97 TONS OF I&E 94-METAL. YIELDS WERE 89.2% FOR SOLID AND 89.1% FOR I&E NORMAL-URANIUM, AND 86.6% FOR 94-METAL PIECES.

IN-REACTOR PRODUCTION WAS 112.8% OF FORECAST. THE OVER-ALL REACTOR TIME-OPERATED EFFICIENCY WAS 84.4%. A NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORD WAS ESTABLISHED AT KW REACTOR. DURING THE MONTH, THERE WERE 9 FUEL ELEMENT FAILURES; OF THESE, 5 WERE I&E NORMAL-URANIUM, 2 WERE I&E 94-METAL, AND 2 WERE SOLID NORMAL-URANIUM.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 82.1% OF FORECAST, WITH 64.4% OF THE TOTAL PRODUCED BY PUREX AND 35.6% BY REDOX. PRODUCTION FELL BELOW FORECAST BECAUSE OF POOR DECONTAMINATION EFFICIENCIES AND PROLONGED DOWNTIME AT PUREX. PUREX WAS DOWN FOR 20 DAYS TO (1) REPLACE HA, HS, AND 2E COLUMNS, (2) MAKE EXTENSIVE FLUSH OF EQUIPMENT, AND (3) MAKE AN UNSUCCESSFUL NEPTUNIUM RECOVERY RUN. REDOX OPERATED ALL MONTH.

PRODUCTION OF UO_3 TOTALLED 297 TONS, 66.0% OF FORECAST, FOR NORMAL UO_3 AND 97.1 TONS, 198.1% OF FORECAST, FOR 94 METAL. ALL SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - DESIGN IS 58% COMPLETE. CONSTRUCTION IS 3.8% COMPLETE; A REVISED SCHEDULE IS IN PROCESS. PRIMARY COOLANT PUMP ORDER PLACED, AMOUNT \$737,400.

REACTOR CONFINEMENT - DESIGN IS ON SCHEDULE AT 94%; CONSTRUCTION IS 42% COMPLETE AS SCHEDULED. PHASE III IS 11% COMPLETE. FILTER LIFE NOW EXPECTED TO EXCEED TWO YEARS. (SEE PART I, PAGES 9, 10 AND 11.)

PRTR - CONSTRUCTION IS 96% COMPLETE VS. 98% SCHEDULED. ADDITIONAL TIME AND FUNDS WILL BE REQUIRED. (SEE PART I, PAGE 9.)

CRITICAL MASS LABORATORY - BENEFICIAL USE OBTAINED DURING JUNE.

COMMUNITY

DISPOSAL - HHFA RECEIVED ONLY ONE BID, COVERING TWO APARTMENTS, AT THE BID OPENING. NEW ROOFS WILL BE INSTALLED ON REMAINING A-J APARTMENTS. (SEE PART II, PAGE 4.)

REAL ESTATE - GSA HAS ASKED IMMEDIATE TRANSFER OF LAND UNDER BUILDING 703. FHA HAS RECEIVED EARNEST MONEY ON 256 OF THE 280 COLUMBIA HEIGHTS HOUSES. (SEE PART II, PAGE 3.)

PLANT OPERATIONSMETAL PREPARATION

CANNING - THE NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALED 699 TONS, 111.1% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM		
SOLID	40 TONS	89.2% YIELD
I&E	562 TONS	89.1% YIELD
94 METAL - I&E	97 TONS	86.6% YIELD

FIVE CANNING LINES OPERATED ON TWO SHIFTS ON A FIVE-DAY-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 90.1%.

AT THE END OF THE REPORTING PERIOD, THE COMBINED INVENTORY OF BARE AND FINISHED ACCEPTABLE NORMAL-URANIUM FUEL ELEMENTS FOR ROUTINE PRODUCTION MODELS VARIED BY TYPE FROM 2.3 TO 7.9 MONTHS' SUPPLY. THE COMBINED INVENTORY FOR BARE AND ACCEPTABLY FINISHED 94-METAL PIECES VARIED BY TYPE FROM 2.7 TO 3.3 MONTHS' SUPPLY. THE INVENTORY OF CAPS AND CANS AT MONTH END WAS 3.6 MONTHS' SUPPLY.

AUTOCRAVE FAILURES - FOUR I&E FUEL ELEMENTS FAILED DURING AUTOCRAVE TESTING IN JUNE. TWO OF THESE FAILURES WERE ATTRIBUTED TO PIN HOLES IN THE MALE WELDS WHICH WERE ASSOCIATED WITH VOIDS IN THE BRAZE LAYER. THE OTHER TWO FAILURES OCCURRED BECAUSE OF PIN HOLES IN THE FEMALE WELDS.

SCRAP SHIPMENTS - THERE WAS ONE SHIPMENT OF SCRAP IN JUNE. THIS INCLUDED 22 TONS OF NORMAL-URANIUM METAL SCRAP AND 6 TONS OF 94-METAL SCRAP.

REACTOR OPERATION

DURING JUNE, 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)	85.0	96.2	86.2	87.5	85.0	88.3	183.0	182.8	894.0
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	79.2	90.2	83.0	79.7	76.6	83.8	179.4	177.6	849.5
TIME-OPERATED EFFICIENCY	82.3	78.8	88.8	92.6	83.1	63.4	91.9	94.5	84.4

IN-REACTOR PRODUCTION WAS 112.8% OF FORECAST ^{1/}. THE OVER-ALL TIME-OPERATED EFFICIENCY WAS 84.4% AS COMPARED WITH A FORECAST FIGURE OF 81.1%. THE PRODUCTION EFFICIENCY ^{3/} WAS 86.3%. KW REACTOR ESTABLISHED A NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORD.

THERE WERE 9 FUEL ELEMENT FAILURES DURING JUNE. OF THESE, 5 WERE I&E NORMAL-URANIUM, 2 WERE I&E 94-METAL, AND 2 WERE SOLID NORMAL-URANIUM. THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,192, INVOLVING 1,212 PIECES (129 I&E). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 78, INVOLVING 80 PIECES.

EQUILIBRIUM POWER LEVELS WERE LIMITED PRIMARILY BY FUEL ELEMENT FAILURE CONTROL AT ALL REACTORS EXCEPT H. EQUILIBRIUM POWER LEVEL AT H WAS LIMITED BY BULK OUTLET WATER TEMPERATURE LIMITATION.

EQUIPMENT EXPERIENCE - A TOTAL OF 84 PROCESS TUBES WAS REPLACED: 67 AT H, 10 (ZIRCONIUM) AT C, 4 AT B, 2 AT D, AND 1 AT KW. FOUR TUBE AND ONE VAN STONE LEAKS WERE CORRECTED.

^{1/} DOCUMENT HW-64681 (HAN-75294) JOHNSON/TRAVIS, DATED APRIL 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

^{2/} "SECRET" MEMORANDUM BLOCH/TRAVIS, DATED JUNE 8, 1959, SUBJECT "REVISION OF INDEX NUMBERS," SYMBOL PRP:EFG.

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

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PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

EQUIPMENT EXPERIENCE (CONT'D)

USE OF SUPPLEMENTARY CONTROL SYSTEMS REDUCED AVERAGE STARTUP LOSSES AT C, DR, H, KE, AND KW REACTORS TO ABOUT 0.2 EQUILIBRIUM DAYS. THIS IS AN IMPROVEMENT OF ABOUT 0.4 DAYS OVER 1959 AVERAGE STARTUP EFFICIENCY FOR THESE REACTORS.

DINGOT URANIUM TESTING - ANALYSIS OF THE 7 TUBES OF ALLOYED DINGOT MATERIAL DISCHARGED FROM D REACTOR AT AN AVERAGE EXPOSURE OF 795 MWD/T REVEALED (A) DINGOT IS NOT SIGNIFICANTLY HIGHER IN AVERAGE WARP THAN INGOT AND (B) RADIAL EXPANSION OF DINGOT MATERIAL UNDER IRRADIATION WAS NOT SIGNIFICANTLY DIFFERENT THAN THAT FOR INGOT.

KER TESTING - THE CIRCALOY-2 JACKETED NATURAL-URANIUM THERMOCOUPLE ELEMENT BEING IRRADIATED IN KER-1 TO MEASURE THE TEMPERATURE EFFECT OF CRUD FILM DEPOSITION IN PH 10 COOLANT HAS SHOWN NEGLECTIBLE FILMING AT COOLANT TEMPERATURES UP TO 288°C WITH A SURFACE HEAT FLUX OF ABOUT 0.35 X 10⁶ B.H.R. / FT.². NO FILMING RESULTED FROM SEVERAL TEMPERATURE CYCLES.

THE FOUR 18" ENRICHED TUBE-IN-TUBE ELEMENTS BEING IRRADIATED IN KER-2 TO A GOAL OF 3500 MWD/T HAVE ATTAINED AN EXPOSURE OF 3085 MWD/T IN 270°C COOLANT AT AN AVERAGE SPECIFIC POWER OF 123 KW/FT.

THE EIGHT NATURAL-URANIUM, CIRCALOY-2 JACKETED TUBE-IN-TUBE ELEMENTS BEING IRRADIATED IN KER-4 TO EVALUATE HOT-HEADED CLOSURES HAVE ATTAINED AN EXPOSURE OF 805 MWD/T IN 286°C COOLANT. THE ELEMENTS ARE SCHEDULED TO A GOAL OF 2500 MWD/T.

INCREASED GRAPHITE TEMPERATURE LIMITS AT DR - THE STARTUP OF DR REACTOR ON JUNE 1 AND OPERATION TO THE SHUTDOWN ON JUNE 17 WAS CONDUCTED UNDER THE PROVISIONS OF A PRODUCTION TEST ALLOWING A TIME-WEIGHTED INCREASE OF THE GRAPHITE TEMPERATURE LIMIT TO A MAXIMUM OF 650°C EVEN WITH A HELIUM CONCENTRATION IN THE REACTOR ATMOSPHERE AS LOW AS 20%. THE HIGHER TEMPERATURE WAS ALLOWED UNDER TEST TO GAIN REACTIVITY THROUGH HIGHER MODERATOR TEMPERATURE IN PLACE OF A NUMBER OF TUBES OF ENRICHED FUEL. THE BURNOUT OF THE GRAPHITE UNDER STARTUP OF THIS SORT IS BEING MONITORED WITH INSERTED TEST PIECES OF GRAPHITE. THE WEIGHT LOSS OF THESE PIECES WILL BE MEASURED AFTER TWO STARTUPS.

FOLLOWING IS A SUMMARY OF JUNE REACTOR OUTAGES:

DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
<u>B REACTOR:</u>			
5-30	6-2	72.5	CONCLUDED RUPTURE REMOVAL. CHARGE-DISCHARGE AND TUBE REPLACEMENT.
6-2	6-2	0.8	PANELLIT TRIP.
6-7	6-7	0.2	PANELLIT TRIP.
6-7	6-9	45.4	PANELLIT TRIP. INSUFFICIENT REACTIVITY. CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
6-26	6-27	29.6	PANELLIT TRIP. INSUFFICIENT REACTIVITY. CHARGE-DISCHARGE AND MAINTENANCE.
<u>C REACTOR:</u>			
6-3	6-5	43.3	SCHEDULED CHARGE-DISCHARGE.
6-5	6-5	0.7	PANELLIT TRIP.
6-6	6-6	0.2	PANELLIT TRIP.
6-6	6-8	30.6	PANELLIT TRIP. INSUFFICIENT REACTIVITY. MISCELLANEOUS MAINTENANCE.
6-8	6-8	0.3	PANELLIT TRIP.
6-18	6-20	29.2	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 2456. CHARGE-DISCHARGE.
6-20	6-21	17.8	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 1889. CHARGE-DISCHARGE AND TUBE REPLACEMENT.
6-28	6-28	0.3	POWER LOSS RELAY TRIP WHEN A PUMP WAS BEING REMOVED FROM SERVICE AT 190 (DUE TO THE FAILURE OF A WEAR RING ON THE IMPELLER ASSEMBLY).
6-29	6-30	30.0	TEMPERATURE CONTROL AND TUBE REPLACEMENT.
<u>D REACTOR:</u>			
6-9	6-11	48.7	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 3964. CHARGE-DISCHARGE.
6-12	6-13	31.7	TEMPERATURE AND PRESSURE INCREASE ON TUBE 1074 WHEN A SPLINE CAP INSERT BECAME UNSCREWED AND WASHED DOWNSTREAM.

PLANT OPERATIONS (CONT'D)REACTOR OPERATIONS (CONT'D)

DATE DOWN	DATE UP	OUTAGE HOURS
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REMARKSDR REACTOR:

5-28	6-1	101.3	CONCLUDED RUPTURE REMOVAL. CHARGE-DISCHARGE AND TUBE REPLACEMENT. TRIPPED BY LOW FLOW ON THE DR-1 LOOP. PANELLIT TRIP WHEN A JUMPER WAS INADVERTENTLY REMOVED FROM GAUGE 2973.
6-1	6-1	0.4	
6-2	6-2	0.2	
6-17	6-19	38.0	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 2155. CHARGE-DISCHARGE AND MAINTENANCE.
6-30	STILL DOWN		TRIPPED WHEN A WIRE BETWEEN PANELLIT GAUGES WAS INADVERTENTLY REMOVED WHILE ATTEMPTING TO REMOVE A LEAKING GAUGE. INSUFFICIENT REACTIVITY.

F REACTOR:

6-2	6-3	35.3	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2471. CHARGE-DISCHARGE.
6-20	6-21	38.7	SCHEDULED CHARGE-DISCHARGE AND MAINTENANCE.
6-24	6-26	48.0	LEAK TESTING. TUBE AND VENTURI REPLACEMENTS.

H REACTOR:

5-30	6-1	30.2	COMPLETED LEAK TESTING AND TUBE REPLACEMENT. LOOSE REAR CAP ON TUBE 4357. REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 1583. CHARGE-DISCHARGE.
6-1	6-1	0.8	
6-1	6-2	17.8	
6-3	6-4	29.5	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 3553.
6-7	6-8	35.6	LEAK TESTING AND CHARGE-DISCHARGE.
6-16	6-18	34.4	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2178. CHARGE-DISCHARGE.
6-18	6-19	26.4	LEAK TESTING AND TUBE REPLACEMENT.
6-26	STILL DOWN		SCHEDULED CHARGE-DISCHARGE, TUBE REPLACEMENT, AND BALL 3X WORK.

KE REACTOR:

6-6	6-8	58.5	SCHEDULED CHARGE-DISCHARGE.
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KW REACTOR:

5-31	6-2	46.7	CHARGE-DISCHARGE FOLLOWING PANELLIT TRIP.
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FUEL ELEMENT FAILURES - FOLLOWING IS A SUMMARY OF JUNE FUEL ELEMENT FAILURES:TABULATION OF RUPTURED URANIUM SLUGS

REDUCTION OF RUPTURED CRAYFISH TESTS							
TUBE NO.	DATE RUPTURED	TUBE POWER 1/	CONCENTRATION (MWD/T)	ASSIGNED LOSS MWD	LOSS DAYS	METAL	TYPE FAILURE
(NORMAL)							
1583-H	6-1	1005	424	1134	0.68	I&E	SIDE OTHER.
2471-F	6-2	1237	466	268	0.17	I&E	MALE END.
3553-H	6-3	673	588	690	0.41	SOLID	SPLIT.
2178-H	6-16	969	468	720	0.43	I&E	HOT SPOT.
2155-DR	6-17	873	554	583	0.37	SOLID	SIDE HOT SPOT.
1889-C	6-20	1097	488	1695	0.94	I&E	SIDE HOT SPOT.
3277-B	6-26	1145	683	207	0.13	I&E	UNKNOWN.
(94 METAL)							
3964-D	6-9	1229	807	1125	0.68	I&E	HOT SPOT.
2456-C	6-18	1074	697	695	0.39	I&E	SIDE HOT SPOT.

1/ AT TIME OF RUPTURE.

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PLANT OPERATIONS (CONT'D)

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 82.1% OF FORECAST ^{1/}, WITH 64.4% OF THE TOTAL PRODUCED BY PUREX AND 35.6% BY REDOX. PRODUCTION WAS BELOW FORECAST BECAUSE OF POOR DECONTAMINATION EFFICIENCIES AND PROLONGED DOWNTIME AT PUREX.

PUREX - THE PUREX PLANT PROCESSED 251.9 TONS OF NORMAL URANIUM DURING JUNE.

OPERATIONS WERE CONTINUOUS FOR THE FIRST TEN DAYS OF THE MONTH. DURING THIS PERIOD, BOTH PRODUCTS WERE GENERALLY OUT OF SPECIFICATIONS ON GAMMA ACTIVITY. ON JUNE 10, THE BUILDING WAS SHUT DOWN TO CORRECT THE DECONTAMINATION DEFICIENCIES AND REPLACE THE 2-E COLUMN. A NEPTUNIUM RECOVERY WAS STARTED BUT NOT COMPLETED AT THIS TIME. ON JUNE 21, OPERATIONS WERE RESUMED. DURING STARTUP PROCEEDINGS, A FLOW RESTRICTION DEVELOPED IN THE HAP LINE WHICH MADE IT NECESSARY TO SHUT DOWN AGAIN AFTER TEN HOURS OF OPERATION. INSPECTION OF THE HA COLUMN SCRUB SECTION CARTRIDGE DISCLOSED THAT ALL OF THE PLASTIC PLATES WERE BADLY BUCKLED AND CRACKED AND THAT THE PLUG WAS THE RESULT OF THE ACCUMULATION OF PLASTIC PARTICLES IN THE HAP DOWNCOMER LINE. INSPECTION OF THE HS COLUMN SHOWED IT TO BE IN SIMILAR CONDITION. BOTH THE HA AND HS COLUMNS WERE REPLACED. PROCESSING WAS AGAIN RESUMED ON JUNE 30.

BOTH THE URANIUM AND PLUTONIUM PRODUCTS WERE OUT OF SPECIFICATIONS FOR THE ENTIRE OPERATING PERIOD. BLENDING, REWORKING, AND REPROCESSING IN THE REDOX SILICA-GEL FACILITIES AND THE RECUPLEX PLUTONIUM RECOVERY FACILITIES WERE NECESSARY FOR ALMOST ALL OF THE PRODUCT.

THE SODIUM DICHROMATE FLOWSHEET WAS USED FOR THE NEPTUNIUM RECOVERY RUN SINCE THE MAIN OBJECTIVE OF THE SHUTDOWN WAS TO DECONTAMINATE EQUIPMENT. THE FAILURE OF THREE SAMPLERS LOCATED IN CRITICAL PROCESS POSITIONS CREATED SOME UNCERTAINTY AS TO THE LOCATION OF THE NEPTUNIUM IN THE PROCESSING EQUIPMENT. THE NEPTUNIUM INVENTORY WAS COLLECTED IN WASTE STORAGE. ALTHOUGH THE NEPTUNIUM WAS RECOVERABLE, THE ADDITIONAL TIME REQUIRED WAS NOT JUSTIFIED, AND THE RUN WAS ABANDONED. THE NEPTUNIUM MATERIAL WAS PLACED IN INVENTORY AND IS AVAILABLE FOR RECOVERY AT A LATER DATE.

CUMULATIVE WASTE LOSSES DURING THE MONTH WERE EXTREMELY HIGH DUE TO THE LARGE AMOUNT OF FLUSHING AND SMALL MONTHLY PRODUCTION. LOSSES DURING ACTUAL PROCESSING, HOWEVER, WERE NORMAL. WASTE LOSSES FOR THE MONTH TOTALLED 1.4% OF PLUTONIUM THROUGHPUT AND 0.22% OF URANIUM THROUGHPUT.

THE ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE AVERAGED 0.31 CURIE PER DAY FOR THE MONTH. A MONTHLY TOTAL OF 9.35 CURIES WITH A DAILY MAXIMUM OF 1.2 CURIES WAS MEASURED.

REDOX - THE REDOX PLANT PROCESSED 36.9 TONS OF 94 METAL AND 115.1 TONS OF NORMAL URANIUM. BOTH PRODUCTS WERE WITHIN SPECIFICATIONS.

THE 94 METAL WAS PROCESSED DURING THE EARLY PART OF THE MONTH ON A FIVE-DAY-PER-WEEK BASIS. PROCESSING OF NORMAL URANIUM WAS BEGUN ON JUNE 13. AT THE SAME TIME, THE PLANT WENT ON A SEVEN-DAY-WEEK OPERATION.

ON JUNE 29, A PUMP FAILURE IN THE UNH PRODUCT STORAGE AREA CAUSED UNH TO LEAK TO THE FLOOR AND INTO A DRAIN LEADING TO THE STEAM CONDENSATE DRY WELL. THE URANIUM CONTENT WAS ESTIMATED TO BE 1400 POUNDS.

WASTE LOSSES FOR JUNE WERE 0.6% OF THE URANIUM THROUGHPUT AND 0.32% OF THE PLUTONIUM THROUGHPUT. THE ABOVE URANIUM FIGURE INCLUDES THE 1400 POUNDS WASTED TO THE DRY WELL. TOTAL IODINE EMISSION FROM THE STACK WAS 4.78 CURIES WITH A DAILY MAXIMUM OF 0.64 CURIE.

REMOVAL OF URANIUM AND PRELIMINARY DECONTAMINATION OF THE DAMAGED DISSOLVER WAS COMPLETED AT THE END OF THE MONTH.

UO₃ - PRODUCTION FOR JUNE TOTALLED 297 TONS OR 66.0% OF FORECAST FOR NORMAL UO₃ AND 97.1 TONS OR 198.1% OF FORECAST FOR 94 METAL. ALL SHIPPING SCHEDULES WERE MET.

RESEARCH AND DEVELOPMENT

NEPTUNIUM PROCESSING - NO NEPTUNIUM WAS SEPARATED AT PUREX OR REDOX DURING JUNE.

A TOTAL OF 45 NEPTUNIUM ELEMENTS WAS SHIPPED TO SAVANNAH RIVER. THIS COMPLETED CAMPAIGN X AND INCLUDED 12 ELEMENTS OF CAMPAIGN XI. THERE WERE 11 ELEMENTS IN PROCESS AT MONTH END. ONE ADDITIONAL BILLET, NOT COMPLETELY SEATED AGAINST THE EXTRUSION DIE, RUPTURED DURING EXTRUSION AND WAS REJECTED. THE EXTRUSION CHAMBER WAS EASILY DECONTAMINATED.

^{1/} DOCUMENT HW-64681 (HAN-75294) JOHNSON/TRAVIS, DATED APRIL 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

PLANT OPERATIONS (CONT'D)

RESEARCH AND DEVELOPMENT (CONT'D)

NEPTUNIUM PROCESSING (CONT'D)

SEVERAL EXTRUSION BILLET CANS WERE RECEIVED WITH UNDERSIZED INSIDE DIAMETERS. WHILE ATTEMPTING TO COMPACT THE ALUMINUM POWDER IN ONE OF THE CANS, THE SHAPED COMPACTING DIE BECAME WEDGED IN THE CAN AND COULD NO LONGER BE USED. ONE OF THE EXPERIMENTAL DIES WAS USED UNTIL A REPLACEMENT COULD BE OBTAINED.

A TOTAL OF 492 BILLETS WAS CAST FOR EXTRUSION CLADDING, OF WHICH 58 WERE REJECTED BECAUSE OF GAS POCKETS. OF THE 434 REMAINING BILLETS, 326 WERE EXTRUDED TO RESULT IN THE HIGHEST PROCESSING RATE ACHIEVED TO DATE.

AT MONTH END, THERE WERE 344 PIECES IN PROCESS AS FOLLOWS:

86 CAST FUEL CORES
204 EXTRUDED AND/OR STRAIGHTENED RODS
42 RODS READY FOR ETCHING AND INSPECTION
12 RODS READY FOR SHIPMENT

344 TOTAL

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PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

AEC-167, PLUTONIUM RECYCLE TEST REACTOR - A PROJECT PROPOSAL REVISION IS BEING PREPARED TO EXTEND THE PROJECT COMPLETION DATE AND INCREASE THE FUNDS. WORK ON THE MAINTENANCE AND MOCK-UP FACILITY AND GROUNDS IMPROVEMENT CANNOT BE COMPLETED WITHIN THE PRESENT DIRECTIVE COMPLETION DATE OF AUGUST 30, 1960. THE BID PACKAGE ON THE MAINTENANCE AND MOCK-UP FACILITY WAS REVIEWED AND PROCESSED FOR DISTRIBUTION TO PROSPECTIVE BIDDERS.

CGI-791, REACTOR CONFINEMENT - A REQUISITION HAS BEEN PREPARED FOR THE HALOGEN REMOVAL EQUIPMENT. TESTS OF SAMPLE FILTER TRAINS ARE CONTINUING IN 100-B AND 100-F. AFTER A TEST PERIOD OF NINE MONTHS, THERE ARE INDICATIONS THAT UNDER THE WORST CONDITION FILTER LIFE WILL EXCEED TWO YEARS.

A REVISED CONSTRUCTION SCHEDULE HAS BEEN PREPARED COVERING A TOTAL PROJECT ESTIMATE OF \$6,380,000.

CGC-813, PLUTONIUM RECOVERY FROM CONTAMINATED MATERIALS, 234-5 BLDG. - IT APPEARS THAT THE PROJECT WILL OVERRUN THE ESTIMATE PRINCIPALLY DUE TO THE HIGH BID RECEIVED FOR EQUIPMENT. A REVISED PROPOSAL IS BEING PREPARED TO PROVIDE ADDITIONAL FUNDS AND TO PROVIDE ADDITIONAL TIME FOR SEPARATING PROCUREMENT INTO SMALLER PACKAGES TO IMPROVE COMPETITION.

CAI-816, NEW PRODUCTION REACTOR - THE FOLLOWING SCOPE DESIGN WAS APPROVED DURING THE MONTH:

1. FISSION PRODUCT CONFINEMENT, ADDENDUM No. 1.
2. OUTLET TEMPERATURE MONITORING SYSTEM, REVISION No. 1.
3. FLOW DIAGRAM, PRIMARY COOLANT AND AFTER HEAT REMOVAL SYSTEM, REVISION No. 1.
4. FLOW DIAGRAM, GRAPHITE COOLING SYSTEM, REVISION No. 1.
5. FLOW DIAGRAM, FILTERED WATER SYSTEM.
6. HEAT DISSIPATION SYSTEM, PROJECT REPRESENTATIVES MEETINGS NOS. 42, 43, AND 44.
7. FLOW DIAGRAM, INJECTION WATER SYSTEM AND BLEED SYSTEM.

CGH-819, INCREASED LABORATORY WASTE FACILITIES, 300 AREA - BID PACKAGES HAVE BEEN PREPARED AND ADVERTISED FOR OPENING IN EARLY JULY.

CGC-821, PROJECT PALM - PUREX - SCOPING WAS COMPLETED EARLY IN JUNE. A REVISED PROPOSAL IS BEING PREPARED REQUESTING TOTAL FUNDS. ALSO, THE PROJECT IS BEING REVISED TO PROVIDE CONTINUOUS EXTRACTION IN PUREX.

CAH-822, PRESSURIZED GAS-COOLED LOOP FACILITY - INITIATION OF CONSTRUCTION: ACTUAL LOOP INSTALLATION HAS BEEN DELAYED WHILE AWAITING THE COMPLETION OF TESTING OF THE GAS COMPRESSORS BY THE VENDOR, BRISTOL SIDDELEY, ENGLAND. A NEW COMPLETION DATE IS BEING CALCULATED DUE TO THIS DELAY AND DUE TO THE FACT THAT CONSTRUCTION MUST BE DELAYED TO ELIMINATE INTERFERENCE WITH PRTR REACTOR STARTUP SCHEDULES.

CAH-866, SHIELDED ANALYTICAL LABORATORY - AN A-E CONTRACT FOR DESIGN HAS BEEN NEGOTIATED AND SIGNED WITH B. D. BOHNA AND COMPANY OF SAN FRANCISCO.

CAH-867, FUEL ELEMENT RUPTURE TEST FACILITY - THE PROPOSAL REVISION FOR THE TOTAL PROJECT HAS RECEIVED FAVORABLE LOCAL ACTION AND HAS BEEN FORWARDED TO THE WASHINGTON OFFICE FOR APPROVAL. DESIGN FUNDS HAVE BEEN MADE AVAILABLE TO THE ARCHITECT-ENGINEER (GE).

CGH-888, BIOLOGY LABORATORY IMPROVEMENTS - DESIGN CRITERIA HAVE BEEN RECEIVED FOR REVIEW AND APPROVAL. AUTHORIZATION HAS BEEN RECEIVED FOR A STRUCTURE WITH AN UNFURNISHED THIRD FLOOR.

CAC-891, PUREX 216-A-6 CRIB REPLACEMENT - DETAILED DESIGN FOR A REPLACEMENT CRIB WAS COMPLETED IN JUNE.

CGC-897, FISSION PRODUCT CONCENTRATES STORAGE SYSTEM 200-E - A DIRECTIVE HAS BEEN ISSUED AUTHORIZING PRELIMINARY DESIGN.

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

MAJOR PROJECTS							
PROJECT	PROJECT PROPOSAL NUMBER	ACTUAL STARTING DATE	CONSTRUCTION		DESIGN	PRESENT	
			SCHED. COMPL. DATE	COMPLETION		ACTUAL COMPL.	WORKING ESTIMATE (THOUSANDS)
				% SCHED.	% ACTUAL		
PRTR	AEC-167	3-6-58	8-30-60	98	96	100	\$ 12,750
RMC BUTTON LINE, 234-5	CG-734	2-18-58	7-15-60	99	98	100	1,845
PU FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	91	99	100	4,230
MET. DEV. FAC., 306							
BLDG. ADDITION	CA-744	3-20-59	9-1-60	91	93	100	2,685
REACTOR CONFINEMENT	CGI-791	3-31-59	12-31-61	42*	42	94	6,380
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	100	100	100	1,000
ADD'L PU FAB. FAC.							
234-5 BLDG.	CGC-811	8-24-59	7-1-61	57	59	96	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	6.4**	3.8	58	145,000
NEW FUEL CLAD, FAC.	CAF-847	7-27-59	10-1-61	18	15	48	3,600

* BASED ON REVISED SCHEDULE.

**SCHEDULE IS IN PROCESS OF REVISION BASED ON PURCHASE ORDER AND SUBCONTRACT AWARDS MADE IN LAST SIX MONTHS. THE 6.4% SCHEDULED PROGRESS IS BASED ON SCHEDULE OF SEPTEMBER 1959. REVISED SCHEDULE WILL BE ISSUED IN JULY AND WILL SHOW ABOUT 3.8% SCHEDULED AND 3.8% ACTUAL AS OF JULY 1, 1960.

CONTRACT AT(45-1)-1446, PROJECT CG-731, CRITICAL MASS LABORATORY - HOWARD S. WRIGHT CONSTRUCTION COMPANY - BENEFICIAL OCCUPANCY OF THIS FACILITY WAS OBTAINED BY HANFORD LABORATORIES (GE) ON JUNE 23, 1960.

CONTRACT AT(45-1)-1481, PROJECT CG-789 AND W. O. B-93240 (300 AREA) AUTOMATIC SPRINKLER SYSTEMS, BUILDING NO. 234-5, 200-WEST AREA, AND BUILDING NO. 3722, 300 AREA, NATIONAL AUTOMATIC SPRINKLER COMPANY - THIS CONTRACT WAS COMPLETED ON JUNE 22, 1960.

PROJECT CGI-791, REACTOR CONFINEMENTCONTRACT AT(45-1)-687, J. A. JONES CONSTRUCTION COMPANY

PHASE I - THIS PHASE, WHICH IS CONCERNED PRIMARILY WITH THE INSTALLATION OF THE FOG SPRAY SYSTEM, IS 98% COMPLETE AND IS MANUALLY OPERABLE IN ALL AREAS. THE ESTIMATED COST OF THIS PHASE IS \$291,500.

PHASE II-A - THIS PHASE, WHICH PROVIDED SITE CLEARANCE FOR THE FILTER BUILDING AND CONSTRUCTION OF VENTILATION DUCTS IN 100-KE AND 100-KW, IS COMPLETE. THE TOTAL ESTIMATED COST OF THIS PHASE IS \$240,300.

CONTRACT AT(45-1)-1483, REACTOR EXHAUST AIR DECONTAMINATION FACILITIES, 100 AREAS, R. B. MILES CONSTRUCTION COMPANY - MOST OF THE CONSTRUCTION WORK ON THIS PHASE IS BEING PERFORMED BY R. B. MILES CONSTRUCTION COMPANY. THIS CONTRACT AND PHASE ARE NOW SCHEDULED AND ACTUALLY 53% COMPLETE. THE TOTAL CONTRACT PRICE IS \$1,738,348. BELOW IS LISTED THE CONSTRUCTION PROGRESS:

PLACEMENT OF CONCRETE IN THE DUCTS IS COMPLETE IN 100-F; FORMWORK, PLACING OF REINFORCING STEEL, AND CONCRETE PLACEMENT IS IN PROGRESS IN THE DUCTS IN 100-H, 100-C, AND 100-D AREAS.

CONCRETE PLACEMENT IN THE WALLS OF ALL THE FILTER BUILDINGS, UP TO THE ELEVATION OF THE SLAB AT THE FILTER INSERTS, WAS COMPLETED ON JUNE 28, 1960, WITH THE PLACEMENT OF CONCRETE IN THE SECOND WALL LIFT AT 100-KW.

CONCRETE PLACEMENT IN THE PARAPET WALL AND THE FAN PIT AT THE TOP OF THE FILTER BUILDING IN 100-F AREA WAS COMPLETED ON JULY 1, 1960. THIS COMPLETES CONCRETE PLACEMENT IN 100-F WITH THE EXCEPTION OF THE BERM RETAINING WALL, SAMPLE BUILDING FLOOR, AND THE CONCRETE STEPS.

TURNING VANES IN THE SEAL PITS OF THE FILTER BUILDING AT 100-D WERE SET.

EXCAVATION FOR THE CONCRETE DUCT FLOOR SLAB WAS COMPLETED IN 100-DR AREA.

ALL CRIBS HAVE BEEN EXCAVATED AND FILTER ROCK HAS BEEN PLACED IN 100-F AND 100-D AREAS.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

PROJECT CG1+791, REACTOR CONFINEMENT (CONT'D)

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

PHASE III, VENTILATION MODIFICATIONS - THE CONTRACTOR IS INSTALLING TUBING FOR THE PRESSURE SENSING STATIONS IN 105-B, 105-C, 105-DR, AND 105-D AREAS. INSTALLATION OF THE STACK BASES IN 105-C IS COMPLETE. DIMENSIONAL CHECKING OF THE FILTER FRAMES IS IN PROGRESS.

EXHAUST FAN DRIVE MOTORS FOR 100-B, 100-D, 100-F, 100-C, AND 100-H HAVE BEEN RECEIVED.

TEMPORARY DOWNCOMER VENTS HAVE BEEN INSTALLED IN ALL AREAS WHERE REQUIRED.

THE ESTIMATED COST OF THIS PHASE IS \$1,838,000, AND IT IS 11% COMPLETE.

CONTRACT AT(45-1)-1491, PROJECT CGC-811, ADDITIONS AND ALTERATIONS TO BUILDING NO. 234-5 FOR INSPECTION FACILITY, 200-WEST AREA - W. G. CLARK CONSTRUCTION COMPANY - THE PORTION OF THE CONTRACT REQUIRED TO BE COMPLETE BY JUNE 17, 1960, WAS COMPLETED ON SCHEDULE. THIS WORK INCLUDED:

- A. ROOF OF NEW ADDITION TO BUILDING.
- B. ALL STEEL SHIELDING IN ROOM NOS. 192-A, 192-B, AND 192-D.
- C. ALL PAINTING AND FLOOR COVERING IN ROOM NO. 192-A.
- D. ELECTRICAL WORK TO THE EXTENT REQUIRED TO COMPLETE POWER WIRING IN THE ABOVE-MENTIONED ROOMS.

THE CONTRACTOR IS SCHEDULED 60% COMPLETE AND HAS ACTUALLY COMPLETED 85% OF THE WORK.

NEW PRODUCTION REACTOR

DESIGN - CONTRACT AT(45-1)-1455, PROJECT CA1-816, NEW PRODUCTION REACTOR - KAISER ENGINEERS - BELOW IS A TABULATION LISTING VARIOUS PERTINENT ITEMS UNDER TITLE II:

	<u>GE</u>	<u>BURNS & ROE</u>
ESTIMATED COST -----	\$4,000,000	\$4,000,000
ACTUAL COST TO JULY 1 -----	2,100,000	2,380,000
SCHEDULED COMPLETE -----	59%	54.5%
ACTUAL COMPLETE -----	62%	54.5%
PRESENT WORK FORCE -----	115	156
TOTAL MAN-DAYS TO DATE -----	28,825	38,780
TOTAL ESTIMATED MAN-DAYS REQUIRED -----	60,000	58,000
NUMBER OF DRAWINGS REQUIRED -----	2,100	732
CONSTRUCTION DRAWINGS, SCHEDULED -----	1,207	348
CONSTRUCTION DRAWINGS, ACTUAL -----	1,180	385
NUMBER OF SPECIFICATIONS, REQUIRED -----	127	162
NUMBER OF SPECIFICATIONS, SCHEDULED -----	87	78
NUMBER OF SPECIFICATIONS, ACTUAL -----	54	66
NUMBER OF REQUISITIONS, REQUIRED -----	400	173
NUMBER OF REQUISITIONS, SCHEDULED -----	135	84
NUMBER OF REQUISITIONS, ACTUAL -----	103	93
OVER-ALL DESIGN, SCHEDULED -----		57
OVER-ALL DESIGN, ACTUAL -----		58

BELOW IS A TABULATION LISTING ITEMS UNDER TITLE III, GE AND BURNS & ROE:

	<u>GE</u>	<u>BURNS & ROE</u>
ESTIMATED COST -----	\$1,570,000	\$1,060,000
COST TO DATE -----	39,000	127,000
ENGINEERS -----	7	8

CONSTRUCTION (PROJECT CA1-816)

RIVER WATER PUMP HOUSE, BUILDING 181-N - JENSEN-RASMUSSEN, SC-10 - CONCRETE HAS BEEN PLACED ON ALL WALLS AND PIERS TO ELEVATION 405.5'. REINFORCING STEEL HAS BEEN PLACED ON ALL WALLS OF THE PUMP HOUSE TO THE OPERATING FLOOR (ELEVATION 421'). CONCRETE HAS BEEN PLACED IN WALL NO. 1 AND WALL NO. 3 TO THE BOTTOM OF THE OPERATING LEVEL FLOOR SLAB, ELEVATION 417' AND 419'. SEVEN THOUSAND TWO HUNDRED THIRTY-NINE (7,239) YARDS OF CONCRETE HAVE BEEN PLACED ON THIS SUBCONTRACT THROUGH JUNE 30, 1960, OUT OF AN ESTIMATED TOTAL OF 8,800 CUBIC YARDS.

PLANT ACQUISITION AND CONSTRUCTION (Cont'd)PLANT CONSTRUCTION (Cont'd)NEW PRODUCTION REACTOR - CONSTRUCTION (Cont'd)

105-N AND 109-N BUILDING EXCAVATION AND SUBSTRUCTURES, SOUND ENGINEERING AND CONSTRUCTION COMPANY, SC-16 - THE "D" ELEVATOR CASINGS WERE CONCRETED IN PLACE ON JUNE 10, 1960. ONE THOUSAND SEVEN HUNDRED SIXTY-SIX (1,766) CUBIC YARDS OF CONCRETE HAVE BEEN PLACED ON THIS SUBCONTRACT.

151-N SUBSTATION AND 153-N SWITCHGEAR BUILDING, MOWAT BROS., SC-35 - EXCAVATION FOR THE 151-N BUILDING WAS COMPLETED ON JUNE 14, 1960. EXCAVATION WAS STARTED ON THE 153-N BUILDING ON JUNE 18, 1960. FIFTY-TWO (52) YARDS OF CONCRETE HAVE BEEN PLACED IN THE 151-N BUILDING TO DATE.

RAILROAD TO PERIMETER FENCE AND 151-N SUBSTATION, T&C SPUR, PROJECT CA-862, FRANCO RAILROAD CONTRACTORS, INC., SC-27 - RAILS HAVE BEEN LAID FOR TRACKS 1, 1-B, AND THE T-C WAREHOUSE SPUR.

SUBCONTRACTS (PROJECT CA1-816)

16 F.P. SUBCONTRACTS HAVE BEEN COMPLETED FOR A TOTAL CONTRACT AMOUNT OF	\$ 995,000
21 F.P. SUBCONTRACTS ARE UNDER WAY FOR AN APPROXIMATE CONTRACT AMOUNT OF	13,632,000
4 F.P. SUBCONTRACTS ARE IN PROGRESS OF REVIEW WITH A TOTAL BID PRICE OF	1,404,000
1 F.P. SUBCONTRACT IS OUT FOR BID AT AN ESTIMATED COST OF	900,000
20 F.P. SUBCONTRACTS ARE YET TO BE INVITED AT AN ESTIMATED COST OF	32,085,000

62 APPROXIMATE TOTAL TO DATE \$49,016,000

PROCUREMENT (PROJECT CA1-816)ENGINEERED EQUIPMENT

	<u>NO.</u>	<u>VALUE</u>
1. ORDERS PLACED FOR ENGINEERED EQUIPMENT	82	\$23,035,000
2. BIDS IN REVIEW PRIOR TO AWARD	24	5,697,000
3. OUT FOR BID (EST.)	12	2,148,000
4. REQUISITION IN PREPARATION TO GO OUT FOR BID	7	682,000
5. TOTAL FOR ENGINEERED EQUIPMENT IN PROCESS BY PURCHASE ORDER	131	31,563,000
6. ENGINEERED EQUIPMENT PROCURED BY SUBCONTRACTORS AND INCLUDED UNDER SUBCONTRACTS. DATA SHOWN ON THIS LINE IS FOR INFORMATION AS TO TOTAL PROCUREMENT OF ENGINEERED EQUIPMENT	7	4,235,000
TOTAL FOR ENGINEERED EQUIPMENT	138	\$35,798,000
7. TOTAL PURCHASE ORDERS PLACED, INCLUDING LINE 1, ENGINEERED EQUIPMENT	1034	\$24,075,000

THE FOLLOWING LARGE AWARDS WERE MADE BY KAISER ENGINEERS THIS MONTH:

1. BYRON JACKSON PUMPS, INC., PRIMARY COOLANT PUMPS FOR NPR IN THE AMOUNT OF \$737,400.
2. ROBERTS FILTER MANUFACTURING COMPANY, DARBY, PENNSYLVANIA, FILTRATION EQUIPMENT IN THE AMOUNT OF \$196,000.

GRAPHITE (PROJECT CA1-816)REFLECTOR GRADE "K" STOCK -

NUMBER OF BARS REQUIRED	10,702
NUMBER OF FINISHED BARS	10,472
PERCENT SCHEDULED	100%
PERCENT COMPLETE	97.5%

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

NEW PRODUCTION REACTOR (CONT'D)

ZIRCONIUM TUBES - STATUS OF ZIRCONIUM TUBES AT TUBE SHOP:

	<u>RECEIVED</u>	<u>INSPECTION PROGRESS</u>
HARVEY	10	THRU IMMERSCOPE, DYE PENETRANT, AND X-RAY.
CHASE BRASS	11	" " " " " " "
ALLEGHENY-LUDLUM	27	ELEVEN ARE THRU IMMERSCOPE, DYE PENETRANT AND X-RAY. THE BALANCE IS IN PROCESS.

CONTRACT ACTIONS

THREE CONTRACTS WERE AWARDED BY THE ATOMIC ENERGY COMMISSION DURING THE MONTH OF JUNE IN THE TOTAL AMOUNT OF \$165,622. THESE CONTRACTS VARIED IN SIZE FROM \$5,353 TO \$148,875. THE LARGER AWARD, CONTRACT AT(45-1)-1610, WAS MADE TO GEORGE A. GRANT, INC., FOR THE HEATING AND VENTILATING FACILITY AND RELATED WORK, BUILDING NO. 333, 300 AREA.

ONE SUBCONTRACT WAS AWARDED BY KAISER ENGINEERS DURING THE MONTH IN THE AMOUNT OF \$6,449,000 TO HOFFMAN-UNIVERSITY-INDUSTRIAL FOR PHASE I OF THE PRIMARY COOLANT PIPING.

PROCUREMENT (FOR PERIOD COVERING MAY 31 THROUGH JULY 1, 1960)

THE ATOMIC ENERGY COMMISSION APPROVED 36 AWARDS MADE BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$676,689.11.

THIRTEEN AWARDS MADE BY KAISER ENGINEERS WERE APPROVED IN THE AMOUNT OF \$1,832,731.60.

THE ATOMIC ENERGY COMMISSION PLACED 369 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$436,588.94.

AIR MAIL

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

JUL 14 1960

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

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

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- 1 Copy - Process Engineering & Manufacturing Division
- 1 Copy - Security Division
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AIR MAIL

DECLASSIFIED

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

JUNE 1960

PART II

[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

JUNE 1960

PART II

C O N T E N T S

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

COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR JUNE 1960:

	<u>JUNE 1</u>	<u>JUNE 30</u>
A. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	132	126
2. TOTAL APARTMENTS UNOCCUPIED	2	8
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>HOUSES</u>	<u>APTS.</u>	<u>HOUSES</u>	<u>APTS.</u>	<u>TOTAL UNITS</u>
TOTAL UNITS	280	220	400	100	1,000
RENTED	177	118	400	100	795
VACANT	103	102	0	0	205

FHA REPORTED IT HAD RECEIVED EARNST MONEY ON 256 OF THE 280 COLUMBIA HEIGHTS HOUSES. DISPOSITION OF THE REMAINING 24 HOUSES IS CURRENTLY AS FOLLOWS:

- 10 OCCUPANTS HAVE NOT YET DECIDED
- 2 OCCUPANTS HAVE APPOINTMENTS TO MAKE EARNST MONEY DEPOSITS
- 1 OCCUPANT HAS INDICATED THAT HE WILL NOT PURCHASE
- 3 UNOCCUPIED HOUSES HAVE NOT BEEN COVERED BY GOOD FAITH DEPOSITS, BUT NUMEROUS APPLICANTS ARE AVAILABLE
- 8 UNOCCUPIED HOUSES ARE BEING HELD OFF THE MARKET AT THE PRESENT TIME FOR REMODELING.

THE SALES ARE BEING HANDLED BY FHA IN WASHINGTON AND NO CLOSING DATES HAVE AS YET BEEN ESTABLISHED.

SCHOOLS:

THE DEPARTMENT OF HEALTH, EDUCATION AND WELFARE SUBMITTED ITS RESULTS OF PUBLIC LAW 874 AUDIT OF THE RICHLAND SCHOOLS FOR SCHOOL YEAR 1958-59. THE AUDIT INDICATES A REFUND OF \$10,185.98 IS DUE. ARRANGEMENTS HAVE BEEN MADE WITH THE SCHOOL DISTRICT TO RECOUP THIS AMOUNT FROM THE FIRST PAYMENT FOR SCHOOL YEAR 1960-61.

DISPOSAL:

THE REPORT OF SALES FOR THE MONTH ENDING JUNE 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>		
PRIORITY PROPERTIES					
SINGLE HOUSES	3,788	0	3,788	0	0
DUPLEX HOUSES	1,018	0	1,018	0	0
COMMERCIALS	127	2	65	62	11
CHURCHES	6	0	6	0	0
NON-PROFITS	7	1	4	3	1
RESIDENTIAL LOTS	97	0	97	0	0
DORMITORY SITES	0	0	0	0	0
WHERRY SITES	1	0	0	1	0
BID PROPERTIES					
APARTMENTS	17	0	0	17	2
RESIDENTIAL LOTS	108	3	78	30	1
RESIDENTIAL TRACTS	87	3	73	14	1
COMMERCIALS	24	0	6	18	1
INDUSTRIALS	41*	1	23	18	3
FLOOD PLAINS	39	0	39	0	0
	<u>5,360</u>	<u>10</u>	<u>5,197</u>	<u>163</u>	<u>20</u>

*ONE INDUSTRIAL LOT WITHDRAWN - IS TO BE DONATED TO UNIVERSITY OF WASHINGTON.

[REDACTED]

COMMUNITY OPERATIONS (CONT'D)

DISPOSAL: (CONT'D)

THREE UPTOWN COMMERCIALS WERE OFFERED FOR SALE TO THE PRIORITY HOLDERS BY HHFA.

AT THE OPENING OF BIDS ON APARTMENTS BY HHFA, ONLY ONE BID WAS RECEIVED, THIS COVERING TWO A-J APARTMENT HOUSES. HHFA FEELS THAT THE PUBLISHED STEAM COSTS APPARENTLY DISCOURAGED SOME BUYERS. ALSO, HHFA RECOMMENDS THAT NEW ROOFS BE PUT ON THE REMAINING A-J APARTMENTS, AS FHA WAS GOING TO REQUIRE THIS OF THE PURCHASERS. GENERAL ELECTRIC HAS BEEN REQUESTED TO INITIATE THIS WORK.

THE EASEMENT DEED TO THE CITY HAS BEEN PREPARED AND AS SOON AS REVIEW HAS BEEN COMPLETED BY THOSE INVOLVED, IT WILL BE EXECUTED.

MUNICIPAL:

HHFA ADVISED THAT THE CITY IS CHANGING DEFINITIONS IN ITS PENDING PERMANENT ZONING ORDINANCE WHICH MAKES IT ADVISABLE TO HOLD UP ALL SALES UNTIL THE ORDINANCE IS FORMALLY ADOPTED.

THE FIRE PROTECTION CONTRACT FOR FY 1961, BETWEEN GE AND THE CITY OF RICHLAND, WAS SUBMITTED FOR COMMENT. THIS CONTRACT IS SAME AS LAST YEAR AND CALLS FOR PAYMENT OF \$2,000 A MONTH, PLUS EXTRAS FOR STANDBY AT AIRPORT, TOTAL NOT TO EXCEED \$33,000.

REAL ESTATE:

A REQUEST WAS RECEIVED FROM THE GENERAL SERVICES ADMINISTRATION ASKING FOR IMMEDIATE TRANSFER OF JURISDICTION ON LAND UNDER THE 703 BUILDING PRELIMINARY TO DESIGN OF THE NEW BUILDING. TRACT WILL BE EXCESSED TO GSA WITH HOO RETAINING USE UNTIL GSA HAS THE CONSTRUCTION FUNDS.

PERSONNEL (ON-SITE)

	<u>JUNE 1</u>	<u>JUNE 30</u>
ATOMIC ENERGY COMMISSION -----	289	289
GENERAL ELECTRIC COMPANY -----	7,809	7,945
TOTAL CONSTRUCTION PERSONNEL -----	<u>1,327</u>	<u>1,427</u>
TOTAL PROJECT PERSONNEL -----	<u>9,425</u>	<u>9,661</u>

END

**DATE
FILMED
9/01/92**