DECLASSIFIED

HAN-77180

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:REL

HAN--77180

DE92 018801

Enclosed herewith is Part I ([REDACTED]) of subject report for the month of NOV. 1960. The [REDACTED] portion, Part II, is forwarded as a separate report.

Classification Cancelled (Change to

Declassified

By Authority of

CG-PP-10

DS Rm 5367/92

DS Rm 5367/92

PM 5367/92

Enclosure:

Cy. # 17, Monthly Status and Progress Report, Part I
Document # Hanford 77180

DISTRIBUTION:

Copies 1 thru 9 - Addressee
Copy 10 - CE&S Division
Copy 11 - PE&M Division
Copy 12 - CRD&R Division
Copy 13 - Security Division
Copy 14 - Mr. Raymond Q. Phillips, Regional Audit
Copy 15 - Classified Files (Reading File)
Copy 16 - AEC Records Center
Copy 17 - Budget Division

When separated from enclosure,
handle this document as
UNCLASSIFIED.

AIR MAIL

DECLASSIFIED

Received 9811
APR 05 1992
MASTER

DISTRIBUTION RESTRICTED TO U.S. ONLY

DECLASSIFIED

DOCUMENT NO. HAN-77180

THIS DOCUMENT CONSISTS
NO. 17 OF 17 COPIES. SER 1

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

NOVEMBER 1960

PART I

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

NOVEMBER 1960

PART I

C O N T E N T S

	<u>PAGE NO.</u>
<u>HIGHLIGHT STATEMENT</u>	3
<u>PLANT OPERATIONS</u>	
METAL PREPARATION	4
REACTOR OPERATION	4 - 7
SEPARATIONS	8 - 9
NEPTUNIUM FABRICATION	9
<u>PLANT ACQUISITION AND CONSTRUCTION</u>	
PROJECT AND DESIGN STUDIES	10
PLANT CONSTRUCTION	11 - 13
PROCUREMENT	14
CONTRACT ACTIONS	14

DECLASSIFIED

DECLASS.

DOCUMENT NO. HAN-77180

HIGHLIGHT STATEMENT - NOVEMBER 1960

OPERATIONS

THE NET PRODUCTION OF CANNED FUEL ELEMENTS WAS 536 TONS. THIS WAS 99.2% OF FORECAST AND CONSISTED OF 480 TONS OF 1&E NORMAL URANIUM AND 56 TONS OF 1&E 94 METAL. YIELDS WERE 86.1% FOR 1&E NORMAL URANIUM AND 87.0% FOR 94 METAL.

IN-REACTOR PRODUCTION TOTALLED 109.1% OF FORECAST - A NEW MONTHLY MAXIMUM. THE OVER-ALL REACTOR TIME-OPERATED EFFICIENCY WAS 85.3%. THERE WERE ELEVEN FUEL ELEMENT FAILURES; THESE INCLUDE EIGHT 1&E NORMAL-URANIUM, ONE 1&E 94-METAL, AND TWO SOLID NORMAL-URANIUM FUEL ELEMENTS.

TOTAL SEPARATION PLANT PLUTONIUM PRODUCTION WAS 81.6% OF FORECAST, WITH 86.5% OF THE TOTAL PRODUCED BY PUREX AND 13.5% BY REDOX. PLUTONIUM PRODUCTION FELL BELOW FORECAST BECAUSE THE PLUTONIUM WAS OUT-OF-SPECIFICATION DUE TO PUREX PROCESSING PROBLEMS DURING THE LAST WEEK OF THE MONTH.

PRODUCTION OF NORMAL UO_3 TOTALLED 654 TONS, 109% OF FORECAST WHILE ENRICHED UO_3 TOTALLED 49 TONS, 100% OF FORECAST. ALL SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 94.5% COMPLETE VS. 100% SCHEDULED.

REACTOR CONFINEMENT - DESIGN IS COMPLETE AND CONSTRUCTION IS 77% COMPLETE VS. 70% SCHEDULED.

NEW PRODUCTION REACTOR - DESIGN IS 80% COMPLETE AND CONSTRUCTION IS 7.5% COMPLETE VS. 12% SCHEDULED.

INCREASED PROCESS WATER FLOW, 100-K - DESIGN IS 56% COMPLETE. CONSTRUCTION IS 1% COMPLETE VS. 1% SCHEDULED.

PLANT OPERATIONSMETAL PREPARATION

CANNING - THE NET PRODUCTION OF ACCEPTABLE CANNED FUEL ELEMENTS WAS 536 TONS, 99.2% OF FORECAST^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM I&E	480 TONS	86.1% YIELD
94 METAL I&E	56 TONS	87.0% YIELD

FIVE CANNING LINES WERE OPERATED TWO SHIFTS PER DAY ON A FIVE-DAY-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 95.7%.

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 1.5 TO 4.0 MONTHS' SUPPLY. THE COMBINED INVENTORY OF 94-METAL PIECES VARIED BY TYPE FROM 3.1 TO 4.6 MONTHS' SUPPLY. THE INVENTORY OF CAPS AND CANS AT MONTH END WAS APPROXIMATELY 3.2 MONTHS' SUPPLY.

AUTOCCLAVE FAILURES - TWO NORMAL I&E FUEL ELEMENTS FAILED DURING AUTOCCLAVE TESTING IN NOVEMBER. BOTH FAILURES WERE ATTRIBUTED TO WATER ENTRY THROUGH DEFECTS IN THE SPIRE WELD.

SCRAP SHIPMENTS - ONE SCRAP SHIPMENT CONSISTING OF 28 TONS OF NORMAL AND 2.4 TONS OF 94 URANIUM WAS MADE THIS MONTH.

REACTOR OPERATION

DURING NOVEMBER, 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)	71.0	79.6	71.4	70.4	73.0	72.8	154.2	156.4	748.8
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	67.1	77.2	62.7	63.0	68.9	66.9	149.7	148.0	709.5
TIME-OPERATED EFFICIENCY	86.3	87.7	86.1	82.4	84.6	81.4	83.6	90.4	85.3

IN-REACTOR PRODUCTION WAS 109.1% OF FORECAST^{1/}. THE OVER-ALL TIME-OPERATED EFFICIENCY WAS 85.3% AS COMPARED WITH A FORECAST OF 83.1%. THE PRODUCTION EFFICIENCY^{3/} WAS 85.7%.

THE REACTOR INPUT PRODUCTION EXCEEDED THE PREVIOUS MAXIMUM (MAY 1960) BY 0.3% ESTABLISHING A NEW MONTHLY RECORD.

NEW INDIVIDUAL REACTOR POWER LEVEL RECORDS WERE ESTABLISHED AT KW, KE, B, AND D.

REACTOR POWER LEVELS THIS MONTH WERE GENERALLY LIMITED BY RUPTURE CONTROL MEASURES. D, DR, AND H WERE ADDITIONALLY RESTRICTED BY BULK OUTLET TEMPERATURE PART OF THE TIME.

FUEL ELEMENT FAILURES - THERE WERE ELEVEN RUPTURES DURING NOVEMBER; EIGHT OF THESE WERE I&E NORMAL URANIUM, TWO WERE SOLID NORMAL URANIUM, AND ONE WAS AN I&E 94-METAL FUEL ELEMENT. THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,216, INVOLVING 1,236 PIECES (147 I&E). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 92, INVOLVING 94 PIECES.

EQUIPMENT EXPERIENCE - EIGHTEEN PROCESS TUBES WERE INSTALLED: 7 AT D, 4 AT F, 3 AT B, AND 2 EACH AT DR AND H. TWELVE WATER LEAKS WERE CORRECTED; 6 OF THESE WERE TUBE LEAKS (2 EACH AT D AND F AND 1 EACH AT DR AND H), AND 6 WERE VAN STONE LEAKS (4 AT H AND 1 EACH AT D AND F).

1/ DOCUMENT HW-67099 (HAN-76786) JOHNSON/TRAVIS, DATED OCTOBER 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

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

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

DECLASSIFIED

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

REACTOR EFFLUENT WATER TREATMENT - DURING EXAMINATION OF FUEL ELEMENTS WHICH HAD BEEN CHARGED UNDER THIS HALF-REACTOR TEST AT H REACTOR, IT WAS OBSERVED THAT THE FUEL ELEMENTS WHICH HAD BEEN EXPOSED TO THE SULPHUR FREE WATER DID NOT HAVE THE CHARACTERISTIC IRON OXIDE FILM. THOSE FROM THE CONTROL SIDE OF THE REACTOR, WHERE NORMAL WATER TREATMENT USING SULPHATES WAS UTILIZED, DID HAVE THE IRON OXIDE DISCOLORATION. SINCE THE ABSENCE OF THIS FILM COULD HAVE A FUNDAMENTAL EFFECT ON EFFLUENT WATER ACTIVITY AND HEAT TRANSFER, THE TEST WILL BE CONTINUED.

P-32 ACTIVITY IN WHITEFISH - THE OCTOBER WHITEFISH CATCH PER UNIT EFFORT OF FISHING BY BIOLOGY PERSONNEL AT RINGOLD AND PRIEST RAPIDS WAS ONE FISH PER MAN-HOUR AND 1.5 FISH PER MAN-HOUR, RESPECTIVELY. THIS IS ABOUT THE AVERAGE RATE OF FISHING SUCCESS DURING THIS SEASON OF THE YEAR. THESE FISH WERE CAUGHT FROM A BOAT WHICH COULD FISH ALL PARTS OF THE RIVER. AT RINGOLD PRIVATE FISHERMEN ARE RESTRICTED TO THE EAST BANK OF THE RIVER.

CONCENTRATIONS OF BETA EMITTERS IN WHITEFISH COLLECTED AND ANALYZED DURING THIS FALL FISHING SEASON ARE GIVEN BELOW:

TOTAL BETA EMITTERS IN FLESH FROM WHITEFISH

<u>LOCATION</u>	<u>COLLECTION DATE</u>	<u>$\mu\text{C}/\text{G}$ WET WEIGHT</u>	
		<u>AVERAGE</u>	<u>MAXIMUM</u>
HANFORD	OCTOBER 12 ¹ / ₁₇	2×10^{-3}	3×10^{-3}
RINGOLD	OCTOBER 19 ¹ / ₁₇	3×10^{-3}	6×10^{-3}
PRIEST RAPIDS	OCTOBER 20 ² / ₅	1×10^{-5}	3×10^{-5}
MENARY	OCTOBER 26	3×10^{-4}	3×10^{-4}

IN COMPARING THESE DATA WITH THOSE IN DOCUMENT HW-63654, IT SHOULD BE NOTED THAT THE DOCUMENT GIVES MAXIMUM VALUE FOR OCTOBER 1958, WHEREAS THE OTHER MONTHS ARE AVERAGE VALUES. THE AVERAGE AT RINGOLD FOR OCTOBER 1958 WAS $1.03 \times 10^{-3} \mu\text{C}/\text{G}$. THE AVERAGE CONCENTRATION IN SAMPLES FROM PRIEST RAPIDS WAS APPROXIMATELY THE SAME AS LAST YEAR. COMPARISON OF VALUES FOR 41 FISH FLESH SAMPLES (WHITEFISH AND OTHER RIVER FISH), WHICH WERE BOTH COUNTED FOR TOTAL BETA ACTIVITY AND ANALYZED SPECIFICALLY FOR P-32 BY RADIOCHEMICAL ANALYSES, SHOWED THAT THE P-32 CONTRIBUTION AVERAGED 96% OF THE TOTAL BETA ACTIVITY. THIS IS WITHIN THE SAME RANGE REPORTED FOR 1956 (HW-36074); SIMILAR ANALYSES OF FIVE BONE SAMPLES INDICATED THAT P-32 WAS RESPONSIBLE FOR MORE THAN 99% OF THE TOTAL BETA ACTIVITY.

DURING 1960, THE OVER-ALL RIVER TEMPERATURE WAS HIGHER THAN USUAL DUE TO AN OPEN FALL. ALSO, THE REACTOR PRODUCTION WAS HIGHER THAN FOR PREVIOUS YEARS IN WHICH FISH WERE TAKEN.

OVERBORING - DURING THE C REACTOR OUTAGE THE WEEK OF NOVEMBER 7, TWO FRONT THERMAL SHIELDS WERE OVERBORED 550 MILS WITH THE FIRST MODEL DUAL-BORE EQUIPMENT. AT THE SAME TIME ON ONE OF THE TUBES, THE REAR CENTERING FLANGE WAS CUT AND THE REAR DO-NUTS EXTRACTED. THESE, UNLIKE THE FRONT DO-NUTS, WERE FOUND TO BE CORRODED IN PLACE - BUT NOT SEVERELY.

FUEL TESTING - KER-2 LOOP WAS CHARGED ON NOVEMBER 11 WITH FOUR SINGLE-TUBE ELEMENTS WITH BRAZED END CLOSURES. THESE ELEMENTS ARE DESIGNED TO SIMULATE THE BEHAVIOR OF N-REACTOR OUTER FUEL TUBES. THE ELEMENTS ARE ENRICHED AT THE 1.6% U-235 LEVEL AND HAVE IRON SUPPORTS.

A DEFECTIBLE ELEMENT FOR THE FUEL-FAILURE TESTING STUDIES BEING CARRIED ON AT THE EXPERIMENTAL TEST REACTOR FACILITY WAS CHARGED IN KER-3 LOOP. THE TOTAL NUMBER OF THIS TYPE OF ELEMENT IN THE TUBE IS NOW SEVEN. ELEMENTS OF TWO DIFFERENT EXPOSURES WILL BE PROVIDED FOR THE ETR TESTS. EIGHT NATURAL-URANIUM TUBE-IN-TUBE ELEMENTS WITH HOT-HEADED CLOSURES WERE DISCHARGED FROM KER-4 LOOP ON NOVEMBER 11. THEIR EXPOSURE WAS 2030 MWD/T. DETAILED EXAMINATIONS ARE BEING MADE. THE KER-4 LOOP WAS RECHARGED WITH IDENTICAL CHARGES AS KER-2.

1/ TEN FISH.

2/ ELEVEN FISH. FISH AVERAGED 0.6 LB.

DECLASSIFIED

DECLASSIFIED

DOCUMENT NO. HAN-77180

PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

REACTOR OUTAGES

REACTOR	DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
B	11-6	11-8	46.3	AN I&E NORMAL-URANIUM RUPTURE IN TUBE 1361 AND CHARGE-DISCHARGE.
	11-8	11-8	3.2	PANELLIT TRIP DUE TO PLUGGING OF CONE SCREEN IN TUBE 3992.
	11-14	11-16	36.6	AN I&E NORMAL-URANIUM RUPTURE IN TUBE 1166.
	11-30	STILL DOWN		AN I&E NORMAL-URANIUM RUPTURE IN TUBE 3566.
C	11-6	11-10	88.3	AN I&E NORMAL-URANIUM RUPTURE IN TUBE 2180 AND CHARGE-DISCHARGE. THE SHIELDS OF TWO CHANNELS WERE SUCCESSFULLY OVERBORED.
	11-11	11-11	0.4	PANELLIT TRIP.
D	10-31	11-2	53.5	LEAK TESTING AND CHARGE-DISCHARGE.
	11-12	11-15	60.0	AN I&E NORMAL-URANIUM WATER-MIX RUPTURE IN TUBE 1366 AND CHARGE-DISCHARGE.
DR	10-24	11-3	236.9	SCHEDULED CHARGE-DISCHARGE, BALL 3X REVISIONS, AND CHUTE LINER AND MATTRESS PLATE REPLACEMENTS.
	11-17	11-18	35.3	LEAK TESTING AND TUBE REPLACEMENT.
	11-18	11-18	1.0	CHANGE VENTURI ON TUBE 0757.
	11-18	11-18	1.6	PANELLIT TRIP.
	11-20	11-21	36.2	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 1192.
	11-21	11-22	1.9	INSUFFICIENT REACTIVITY TO ACCOMPLISH TURNAROUND.
	11-22	11-22	1.1	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 2455.
F	11-13	11-16	70.1	LEAK TESTING, TUBE REPLACEMENT, AND CHARGE-DISCHARGE.
	11-16	11-16	1.0	ADJUSTMENT OF SHIELDING ON AIR CHANNEL 2083.
	11-19	11-21	38.1	LEAK TESTING AND TUBE REPLACEMENT.
	11-30	STILL DOWN		AN I&E NORMAL-URANIUM RUPTURE IN TUBE 1677.
H	11-7	11-8	34.5	PANELLIT TRIP. COMPLETED CHARGE-DISCHARGE.
	11-8	11-8	0.5	PANELLIT TRIP.
	11-8	11-8	0.2	PANELLIT TRIP.
	11-9	11-9	0.2	PANELLIT TRIP.
	11-9	11-9	0.2	PANELLIT TRIP.
	11-10	11-11	32.1	PANELLIT TRIP AND TUBE REPLACEMENT.
	11-19	11-19	0.2	PANELLIT TRIP.
	11-19	11-20	32.3	PANELLIT TRIP AND MISCELLANEOUS MAINTENANCE.
	11-27	11-27	0.2	PANELLIT TRIP.
	11-28	11-29	33.1	LEAK TESTING AND TUBE REPLACEMENT.
KE	11-11	11-12	46.6	AN I&E NORMAL-URANIUM RUPTURE IN TUBE 1559 AND CHARGE-DISCHARGE.
	11-27	11-30	71.6	AN I&E NORMAL-URANIUM RUPTURE IN TUBE 1471 AND CHARGE-DISCHARGE.
KW	11-11	11-14	68.8	AN I&E 94-METAL RUPTURE IN TUBE 3275 AND CHARGE-DISCHARGE.
	11-14	11-14	0.6	OPEN GAMMA MONITOR SAMPLE LINES.

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)							
1361-B	11-6	1115	662	799	0.48	I&E	HOT SPOT.
2180-C	11-6	1123	651	903	0.47	I&E	HOLE FAILURE.
1559-KE	11-11	1473	532	1114	0.29	I&E	UNKNOWN.
1366-D	11-12	1221	635	895	0.52	I&E	SIDE OTHER.

1/ AT TIME OF RUPTURE.

PLANT OPERATIONS (CONT'D)REACTOR OPERATION (CONT'D)FUEL ELEMENT FAILURES (CONT'D)

TABULATION OF RUPTURED URANIUM SLUGS (CONT'D)							
TUBE NO.	DATE RUPTURED	TUBE POWER	1/ CONCENTRATION (MWD/T)	ASSIGNED LOSS		METAL	TYPE FAILURE
				MWD	DAYS		
1166-B	11-14	1199	500	1207	0.72	I&E	HOT SPOT.
1192-DR	11-20	841	457	984	0.63	SOLID	SPLIT.
2455-DR	11-22	908	614	120	0.08	SOLID	SPLIT.
1471-KE	11-27	1397	667	1786	0.47	I&E	HOLE FAILURE.
3566-B	11-30	1290	533	650	0.38	I&E	SIDE OTHER.
1677-F	11-30	1208	599	382	0.22	I&E	UNKNOWN.
(94 METAL)							
3275-KW	11-11	1604	688	746	0.20	I&E	UNKNOWN.

DECLASSIFIED

1/ AT TIME OF RUPTURE.

PLANT OPERATIONS (CONT'D)SEPARATIONS

Total separations plant plutonium production was 81.6% of forecast^{1/}. Purex separated 86.5% of the total while Redox separated 13.5%. The reported plutonium production is less than forecast because the plutonium was out-of-specification due to Purex processing problems during the last week of the month.

Purex - Purex plant performance was generally satisfactory with processing rates of 28 to 29 tons of uranium per day being sustained for greater than one-half of the operating period.

Decontamination efficiencies were borderline for most of the month with the plutonium product stream being the most affected. Periodic processing of rework material degraded the organic quality beyond the effectiveness of normal organic washing procedures. Consequently, the residual organic activity fluctuated above normal levels with corresponding activity bursts being transmitted to the plutonium product. Efforts to increase the decontamination efficiency of the anion exchange process, thereby compensating for the increased plutonium feed activity, were successful for the most part. However, processing of unhydrolized rework during the last week of the month made it necessary to operate the process on total product rework. Normal stream activities and processing conditions were resumed after 6.5 days of recycle operation.

Strontium recovery operations for November were characterized by increased recovery yields. The mechanical efficiency was lower due principally to failure of the E-2 and E-3 centrifuges. At month end, one had been replaced and was back in operation after a week's process downtime. Process flowsheet improvements and refined procedures resulted in the recovery of 150,000 curies of Sr-90 from the last of the aged LW material which represented a yield of 65%-70%. This product is currently stored in the Purex building for concentration and subsequent transfer to the 325 Building. There is more than enough to provide the 60,000 curies scheduled through February for 325 Building ion exchange purification and shipment to ORNL.

It has been confirmed that the inventory of previously recovered, crude strontium nitrate in the 244 CR vault contains at least 150,000 curies of strontium-90. A lead sulfate precipitate has been discovered in the tanks, and this may contain an additional quantity of strontium. Part of this strontium nitrate is scheduled for transfer in the crude form to ORNL, and part of it will be transferred to the hot semiworks for purification beginning in April. The hot semiworks purified product shipments to Martin are scheduled to begin in June with 100 kilocuries.

^{1/} Document HW-67099 (HAN-76786) Johnson/Travis dated October 25, 1960, subject "HAPO Production Forecast."

DECLASSIFIED

DOCUMENT NO. HAN-77180

PLANT OPERATIONS (CONT'D)

SEPARATIONS (Cont'd)

Redox - Relatively trouble-free operation resulted in the processing of 89 tons of 94 metal. The plant operated on a five-day-per-week basis except for a three-day week preceding the Thanksgiving holiday. A program of intensive maintenance during the down periods has been under way and is resulting in progressive improvement of plant equipment. This is expected to result in reliable operation at higher production rates after the multipurpose dissolver is installed. Major equipment replacements during the month included the uranium stream ozone contactor coil and the concentrator and tower for the third uranium cycle.

UO₃ - Production of normal UO₃ totaled 654 tons, 109% of forecast, while production of enriched UO₃ totaled 49 tons, 100% of forecast. Plant performance was good with a minimum of maintenance required. All shipping schedules were met.

NEPTUNIUM PROCESSING

Approximately 460 grams of oxide recycle was received from Savannah River in November to add to fabrication Campaign XIII. A total of 54 elements was shipped to Savannah River this month. At month end, there were 18 elements in process of fabrication and approximately eleven elements yet to be fabricated to make a total yield of 83 elements for the campaign.

PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

NEW PRODUCTION REACTOR CONVERSION - FEDERAL POWER COMMISSION STUDIES: MEETINGS WERE HELD NOVEMBER 17 AND 18 IN SAN FRANCISCO BY AEC-HOO, GE-HAPO, BURNS AND ROE, FEDERAL POWER COMMISSION, AND WASHINGTON AEC PERSONNEL ON UPDATING THE FPC POWER STUDY. THE THREE MOST PROMISING CASES WERE SELECTED FOR UPDATING. FOLLOWING THIS MEETING, BURNS AND ROE SUBMITTED REVISED INFORMATION ON THE THREE CASES, AND THESE DATA ARE BEING REVIEWED BY HOO.

REACTOR CONFINEMENT - A REVISED PROPOSAL WAS PREPARED REQUESTING INCREASED FUND AUTHORIZATION TO A NEW TOTAL OF \$6,900,000 EXCLUSIVE OF CLAIMS AND/OR COUNTERCLAIMS THAT MAY ARISE FROM THE R. B. MILES CONTRACT.

DATA ON THE HIGH EFFICIENCY FILTER TESTS HAVE BEEN EVALUATED, AND IT HAS BEEN DETERMINED THAT THE FILTERS MEET THE SPECIFICATIONS.

PROCESS SAFETY MONITORING SYSTEM - HIGH-SPEED SCANNING TYPE FOR TEMPERATURE MONITORING - VENDOR'S 53-DAY OPERATIONAL TESTS HAVE BEEN COMPLETED ON THE 116-POINT SCANNING SYSTEM. THE SYSTEM IS BEING SHIPPED TO HANFORD.

REMOTELY OPERATED CAP REMOVER - KE REACTOR - TESTS ARE UNDER WAY ON PROTOTYPE FLAPPER VALVES AND BALL VALVES. TO DATE 100 FLAPPER VALVES HAVE BEEN RECEIVED AND 45 HAVE BEEN INSTALLED. FIFTEEN BALL VALVES HAVE BEEN RECEIVED AND FIVE INSTALLED WITH VARIOUS TYPES OF SEALS. EIGHTY-FIVE BALL VALVES WITH NYLON SEALS AND CHROME PLATED BALLS ARE ON ORDER. ALL 200 WILL BE TESTED BEFORE A FINAL DECISION ON THE COMPLETE PROJECT IS MADE.

REAR-FACE CROSSUNDER LINES B, D, DR, F, AND H - A REVISED PROPOSAL HAS BEEN APPROVED TO ADD THE C PILE TO THIS PROJECT. ORIGINALLY, C WAS PLANNED FOR CHARGE-DISCHARGE-WHILE-OPERATING; BUT, WITH THE ELIMINATION OF THIS ITEM, THE CROSSUNDER LINES ARE NEEDED.

PLUTONIUM RECYCLE TEST REACTOR - CRITICAL TESTS WERE STARTED NOVEMBER 17, AND INITIAL CRITICALITY WAS ATTAINED ON NOVEMBER 21, 1960, AT 11:43 A.M.

BIOLOGY LABORATORY IMPROVEMENTS - THE TITLE I ESTIMATE INDICATES A COST OF \$420,000 IF THE FACILITY IS COMPLETED WITH A THIRD FLOOR AS SCOPED. SINCE CURRENT FUNDS AVAILABLE UNDER THE LATEST FINANCIAL PLAN TOTAL \$300,000, POSSIBILITIES OF OBTAINING OTHER FUNDS ARE BEING EXPLORED.

RATTLESNAKE SPRINGS RADIOECOLOGY FACILITY - A PROPOSAL FOR THIS FACILITY WAS FORWARDED TO WASHINGTON ON NOVEMBER 18.

PROJECT PALM - PUREX - DESIGN IS 35% COMPLETE, AND TEN OF THE 75 REQUISITIONS HAVE BEEN ISSUED.

PROJECT BIRCH - REDOX - DETAILED DESIGN WAS STARTED OCTOBER 27, 1960.

FUELS RECYCLE PILOT PLANT - WASHINGTON APPROVAL OF A PROPOSAL FOR INITIATION OF DESIGN OF THIS FACILITY WAS REQUESTED ON NOVEMBER 17. THE PROPOSED PLANT WILL PERMIT COLD, LOW-LEVEL, AND HIGH-LEVEL RADIOACTIVITY EXPERIMENTATION WITH RECYCLED FUEL MATERIALS. INCLUDED WILL BE FACILITIES FOR REFABRICATION OF PLUTONIUM FUEL ELEMENTS FROM PARTIALLY DECONTAMINATED IRRADIATED FUELS.

NEW FUEL CLADDING FACILITY (NPR FUELS) - DESIGN IS 85% COMPLETE AND ON SCHEDULE WITH DESIGN WORK CONTINUING ON EQUIPMENT INSTALLATION. THE BID PACKAGE FOR THE CHEMICAL FACILITIES IS UNDER REVIEW.

PROJECTION FUEL ELEMENT MODIFICATION, 313 BUILDING, PHASE I - DESIGN IS 36% COMPLETE AND ON SCHEDULE. PURCHASE REQUISITIONS FOR LONG-TERM ITEMS ARE BEING PREPARED.

DECLASSIFIED

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)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	SCHED. COMPL. DATE	CONSTRUCTION			
				COMPLETION			
				% SCHED.	% ACTUAL		
PRTR	AEC-167	3-6-58	6-30-61 ^{1/}	100	94.5	100	\$ 13,500
REACTOR CONFINEMENT	CGI-791	3-31-59	12-31-61	70	77	100	6,900 ^{2/}
ADD'L PU FAB. FAC., 234-5 BLDG.	CGC-811	8-24-59	7-1-61	91	92	100	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	12	7.5	80	145,000
PRESS. GAS COOLED LOOP FACILITY	CAH-822	3-15-60	6-30-61	^{3/}	9	100	1,120
MOD. OF FUEL ELEMENT TEST FAC., 1706-KER	CGI-839	2-1-60	10-30-61	^{4/}	2.1	100	2,100
NEW FUEL CLADD. FAC.	CAF-847	7-27-59	10-1-61	21	21	76	3,600
INCR. PROCESS WATER FLOW, 100-K AREA	CGI-883	5-6-60	1-31-63	1	1	56	5,100

^{1/} REVISED PROJECT PROPOSAL DATE FOR MAINTENANCE AND MOCK-UP FACILITY.

^{2/} REVISED PROJECT PROPOSAL ESTIMATE.

^{3/} A SCHEDULE IS BEING PREPARED.

^{4/} NEW SCHEDULE IS BEING PREPARED.

PROJECT AEC-167, PLUTONIUM RECYCLE TEST REACTOR

OPERATING CONTRACTOR, GENERAL ELECTRIC COMPANY, CONTRACT AT(45-1)-1350 - REACTOR CRITICALITY WAS ATTAINED ON NOVEMBER 21, 1960.

PHASE II-D, GEORGE A. GRANT, INC., CONTRACT AT(45-1)-1613 - RELOCATION OF THE DIESEL FUEL SUPPLY, 309 BUILDING, WAS COMPLETED BY THE CONTRACTOR ON NOVEMBER 3, 1960, ONE DAY AHEAD OF THE CONTRACT SCHEDULED DATE.

PHASE III, J. A. JONES, CONTRACT AT(45-1)-687 - INSTALLATION, CLEANING, FLUSHING, AND TESTING OF THE FOLLOWING SYSTEMS HAVE NOW BEEN COMPLETED SUFFICIENTLY FOR CRITICAL TESTING AND THEY HAVE BEEN TRANSFERRED FROM CONSTRUCTION TO GENERAL ELECTRIC COMPANY OPERATIONS:

1. REFLECTOR SYSTEM.
2. MODERATOR SYSTEM.
3. GAS-BALANCE PORTION OF THE HELIUM SYSTEM.
4. REACTOR RADIATION (FLUX MONITORING SYSTEM).
5. SAFETY SYSTEM (ONLY THAT PORTION PERTAINING TO THE CRITICALITY TEST).
6. SHIMROD SYSTEM.
7. COMMUNICATION AND SIGNAL-ALARM SYSTEM.
8. CONTAINMENT SYSTEM.
9. BUILDING RADIATION SYSTEM.
10. SERVO MANOMETER.

PROJECT CGI-791, REACTOR CONFINEMENT

PHASE II-B, CONTRACT NO. AT(45-1)-687, J. A. JONES CONSTRUCTION COMPANY - THE FOLLOWING WORK WAS COMPLETED IN THIS PERIOD:

- 100-D BACKFILL OF THE BERM; INSTALLATION OF GUIDE ANGLES AND GRATINGS.
- 100-DR APPLICATION OF PLY-ON IN THE FILTER BUILDING; INSTALLATION OF ELECTRICAL AND PIPING EQUIPMENT IN THE SAMPLE AND FILTER BUILDINGS.
- 100-KE ERECTION OF THE SAMPLE BUILDING; BACKFILLING OF THE FILTER BUILDING BERM.
- 100-B&C PAVING OF ROADS AND WALKS.

DECLASSIFIED

DECLASSIFIED

DOCUMENT NO. HAN-77180

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

PROJECT CGI-791, REACTOR CONFINEMENT, PHASE II-B (CONT'D)

PRELIMINARY INSPECTIONS WERE HELD IN THE FOLLOWING AREAS:

100-DR NOVEMBER 11, 1960 (FINAL INSPECTION NOVEMBER 22, 1960).
100-B NOVEMBER 4, 1960.
100-A NOVEMBER 4, 1960.

PHASE III, CONTRACT AT(45-1)-687, J. A. JONES CONSTRUCTION COMPANY - THE FOLLOWING WORK WAS COMPLETED THIS PERIOD:

100-B SETTING OF THE T-C STACK, TIE-INS TO THE EXISTING BREECHING, AND ROUTING OF THE EXHAUST AIR THROUGH THE FILTER BUILDING.
100-C TURNING OF EXHAUST AIR THROUGH THE FILTER BUILDING ON NOVEMBER 4, 1960.
100-KW SETTING OF ELECTRIC FAN NO. 1; DIRECTION OF T-C STACKS.
100-H TURNING OF AIR INTO THE FILTER BUILDING ON NOVEMBER 23, 1960.
100-DR INSTALLATION OF NO. 8 FAN.

PROJECT CAI-816, NEW PRODUCTION REACTOR, KAISER ENGINEERS

DESIGN:

GENERAL ELECTRIC COMPANY - TITLE I

ESTIMATED COST	\$890,000
ACTUAL COST TO DECEMBER 1	780,000
COMPLETION SCHEDULED	100%
COMPLETION ACTUAL	100%*
ENGINEERS ASSIGNED	4

*DOES NOT INCLUDE UPDATING REVISIONS.

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 DECEMBER 1	2,835,000	3,397,000
COMPLETION SCHEDULED	75%	71%
COMPLETION ACTUAL	74%	66%
PRESENT WORK FORCE	76	116
TOTAL MAN-DAYS TO DATE	39,728	52,480
TOTAL ESTIMATED MAN-DAYS REQUIRED	60,000	58,000
NUMBER OF DRAWINGS REQUIRED	2,200	864
CONSTRUCTION DRAWINGS - ACTUAL	1,709	797
NUMBER OF SPECIFICATIONS REQUIRED	125	155
NUMBER OF SPECIFICATIONS - ACTUAL	86	131
NUMBER OF REQUISITIONS REQUIRED	400	170
NUMBER OF REQUISITIONS - ACTUAL	167	137
NUMBER OF ATP'S REQUIRED	74	TO BE EST.
NUMBER OF ATP'S - ACTUAL	8	TO BE EST.
OVER-ALL DESIGN - SCHEDULED		73%
OVER-ALL DESIGN - ACTUAL		80%

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

ESTIMATED COST	\$1,570,000	\$1,060,000
COST TO DATE, DECEMBER 1	102,000	217,000
ENGINEERS ASSIGNED	9	22

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION (CONT'D)PROJECT CAI-816, NEW PRODUCTION REACTOR (CONT'D)CONSTRUCTION:

105-N AND 109-N BUILDINGS EXCAVATION AND SUBSTRUCTURES, SOUND CONSTRUCTION & ENGINEERING COMPANY (SC-16) - SEVEN THOUSAND FOUR HUNDRED FORTY-SEVEN CUBIC YARDS OF CONCRETE WERE PLACED DURING THIS PERIOD BY THE SUBCONTRACTOR FOR A TOTAL OF 24,414 PLACED TO DATE.

105-N SUPERSTRUCTURE CONCRETE, CONTRACT AT(45-1)-1455, KAISER ENGINEERS - WORK ON THIS SUPERSTRUCTURE WAS STARTED BY KAISER ENGINEERS ON OCTOBER 31, 1960; A TOTAL OF 410 CUBIC YARDS OF CONCRETE WERE PLACED TO DATE.

163-N AND 183-N WATER TREATMENT FACILITIES BUILDING, SOUND CONSTRUCTION & ENGINEERING COMPANY (SC-26) - SIX HUNDRED SIXTY-EIGHT CUBIC YARDS OF CONCRETE WERE PLACED DURING THIS PERIOD ON THIS CONTRACT FOR A TOTAL OF 2,511 CUBIC YARDS.

166-N FUEL OIL STORAGE TANKS, RECONDITIONING OF SIX EXISTING TANKS, AND CONSTRUCTION OF DIKES AND FOUNDATIONS, PITTSBURGH-DESMOINES (SC-40) - WELDING AND ERECTING OF THE SIXTH AND FINAL PERIMETER RING OF THE FUEL OIL STORAGE TANK HAS BEEN COMPLETED.

151-N SUBSTATION AND 153-N SWITCHGEAR BUILDINGS, HOWAT BROS. (SC-35) - ONLY MINOR CLEANUP ITEMS REMAIN TO BE COMPLETED ON THE 151-N BUILDING.

181-N RIVER WATER PUMP HOUSE SUBSTRUCTURES, JENSEN-RASMUSSEN (SC-10) - THE DEWATERING PUMPS WERE REMOVED ON NOVEMBER 23, 1960, TO ALLOW WATER TO FLOOD THE CELLS AND FOREBAY.

181-N RIVER WATER SUPERSTRUCTURES, MECHANICAL AND ELECTRICAL, HOFFMAN UNIVERSITY INDUSTRIAL (SC-56) - ERECTION OF THE GANTRY CRANE WAS COMPLETED ON NOVEMBER 29, 1960.

182-N WATER STORAGE TANKS AND FOUNDATIONS, GRAVER TANK & MANUFACTURING COMPANY (SC-54) - THE SUBCONTRACTOR STARTED FIELD WORK (LAYOUT) ON DECEMBER 2, 1960.

PROJECT CGI-839, MODIFICATION OF FUEL ELEMENT TEST FACILITIES, 1706-KER, CONTRACT AT(45-1)-1626, FRANK H. LOWSE - WORK ON THIS CONTRACT WAS STARTED NOVEMBER 9, 1960.

PROJECT CAC-881, EMERGENCY COOLING WATER FACILITIES, TANK FARM NO. 241-A, 200-EAST AREA, CONTRACT AT(45-1)-1625, CECIL C. HILL - FIELD WORK WAS STARTED BY THE CONTRACTOR ON OCTOBER 31, 1960.

PROJECT CAC-891, PUREX WASTE CRIB NO. 216-A-30, AND RELATED WORK, 200-EAST AREA, CONTRACT AT(45-1)-1620, ERWIN CONSTRUCTION COMPANY - ALL WORK ON THIS CONTRACT WAS COMPLETED NOVEMBER 4, 1960.

STATUS OF SUBCONTRACTS AND PURCHASE ORDERS - NEW PRODUCTION REACTOR

<u>STATUS</u>	<u>SUBCONTRACTS</u>		<u>ORDERS FOR ENGINEERED EQUIPMENT</u>		<u>ALL PURCHASE ORDERS (INCL. ENGINEERED EQ.)</u>	
	<u>NUMBER</u>	<u>VALUE</u>	<u>NUMBER</u>	<u>VALUE</u>	<u>NUMBER</u>	<u>VALUE</u>
COMPLETED	51 (B)	\$ 1,023,000				
ACTIVE	21 (A)	17,557,000				
A. TOTAL AWARDS	72	18,580,000	162 (A)	\$32,494,000	1,975	\$33,778,000
BIDS UNDER REVIEW	16	5,101,000	40	5,220,000		
OUT FOR BIDS*	4	12,484,000	23	2,875,000		
PREPARING FOR BIDS*	7	1,362,000	3	222,000		
B. TOTAL IN PROCESS*	27	18,947,000	66	8,317,000		
C. TO BE PROCESSED*	14	12,749,000	253	11,911,000		
D. TOTAL (A, B, & C)*	113	\$50,276,000	481	\$52,722,000		

* ESTIMATED.

(A) INCLUDES SIX SUBCONTRACTS FOR ENGINEERED EQUIPMENT, \$3,832,000.

(B) INCLUDES SHORT-TERM SUBCONTRACTS.

DECLASSIFIED

DECLASSIFIED

Document No. HAN-77180

PLANT ACQUISITION AND CONSTRUCTION (Cont'd)

PROCUREMENT (FOR PERIOD COVERING OCTOBER 31 THROUGH DECEMBER 2, 1960)

THE ATOMIC ENERGY COMMISSION APPROVED 35 AWARDS RECOMMENDED BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$929,981.45. ONE OF THESE AWARDS WAS FOR THE PURCHASE OF FILTER FRAMES FROM VAN VETTER, INC., SEATTLE, WASHINGTON, IN THE AMOUNT OF \$171,768.00. THESE FRAMES WILL BE USED ON PROJECT CGI-791, REACTOR CONFINEMENT.

EIGHTEEN AWARDS RECOMMENDED BY KAISER ENGINEERS WERE APPROVED BY THE ATOMIC ENERGY COMMISSION IN THE TOTAL AMOUNT OF \$499,302.33.

THREE AWARDS RECOMMENDED BY J. A. JONES WERE APPROVED BY THE ATOMIC ENERGY COMMISSION IN THE TOTAL AMOUNT OF \$40,877.34.

THE ATOMIC ENERGY COMMISSION PROCESSED 372 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$953,641.30.

CONTRACT ACTIONS

TWO CONSTRUCTION CONTRACTS WERE AWARDED BY THE ATOMIC ENERGY COMMISSION DURING THE MONTH OF NOVEMBER IN THE TOTAL AMOUNT OF \$151,900.

AIR MAIL

DEC 13 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 NOV 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 - Civilian Reactor Dev. & Research Division
- 1 Copy - Security Division
- 1 Copy - Mr. Raymond Q. Phillips, Regional Audit
- 1 Copy - Classified Files (Reading File)
- 1 Copy - AEC Records Center
- 1 Copy - Budget Division

AIR MAIL

[REDACTED]

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

NOVEMBER 1960

PART II

DECLASSIFIED

[REDACTED]

~~DECLASSIFIED~~
~~DECLASSIFIED~~

MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

NOVEMBER 1960

PART II

C O N T E N T S

	<u>PAGE No.</u>
<u>COMMUNITY OPERATIONS</u> -----	3 - 4
<u>PERSONNEL (ON-SITE)</u> -----	4
<u>SAFETY</u> -----	4
<u>LABOR RELATIONS</u> -----	4

DECLASSIFIED

COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR NOVEMBER 1960:

	<u>NOVEMBER 1</u>	<u>NOVEMBER 30</u>
A. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	132	134
2. TOTAL APARTMENTS UNOCCUPIED	2	0
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		85	398	96	579
VACANT		135	2	4	141

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

DISPOSAL:

COMMERCIAL BLOCK 732, NORTH OF THE EXISTING UPTOWN SHOPPING AREA, WAS ADVERTISED IN THE WALL STREET JOURNAL AND OTHER NEWSPAPERS, WITH BID OPENING SET FOR DECEMBER 12, 1960.

HHFA MADE FIRST PRIORITY OFFERING OF TWO PROPERTIES OWNED BY VIRGIL O. MCVICKER (UPTOWN) AND ONE BY CHARLES WELLS (DOWNTOWN).

THE REPORT OF SALES FOR THE MONTH ENDING NOVEMBER 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	84	1	76	8	3
CHURCHES	6	0	6	0	0
NONPROFITS	7	0	6	1	0
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	0	84	24	6
RESIDENTIAL TRACTS	87	1	80	7	3
COMMERCIALS	67	0	7	60	3
INDUSTRIAL	41	1	25	16	4
FLOOD PLAINS	39	0	39	0	0
	<u>5,360</u>	<u>3</u>	<u>5,226</u>	<u>134</u>	<u>21</u>

MUNICIPAL:

AN ASSISTANCE PAYMENT OF \$67,000 WAS MADE TO THE CITY OF RICHLAND.

REAL ESTATE:

TRANSFER PAPERS WERE EXECUTED ON NOVEMBER 1 BETWEEN AEC AND THE CORPS OF ENGINEERS, RETURNING PARCELS 19 AND 20 FROM CAMP HANFORD TO AEC. PARCEL 19 HAS NOW BEEN INCORPORATED IN RICHLAND'S CITY LIMITS. PARCEL 20, PRESENTLY USED FOR AN EXCESS YARD, WILL NOT BE INCORPORATED IN THE CITY LIMITS.

[REDACTED]

COMMUNITY OPERATIONS (CONT'D)

REAL ESTATE: (CONT'D)

THE DEPARTMENT OF DEFENSE HAS NOT YET ISSUED A DIRECTIVE FOR CLOSING DOWN AND ABANDONING CAMP HANFORD.

REPRESENTATIVES OF HOO MET WITH REPRESENTATIVES OF GSA, GE AND TWO ARCHITECTS TO DISCUSS TENTATIVE PLANS FOR THE NEW FEDERAL OFFICE BUILDING AT RICHLAND. HOO INFORMED GSA BY LETTER THAT THE PLANS AS SHOWN TO DATE ARE SATISFACTORY FOR OUR REQUIREMENTS, AND THAT DETAILED SPACE ALLOCATIONS WOULD BE REVIEWED IN DECEMBER. THE ARCHITECTS NOW HAVE TO GET GSA APPROVAL ON THE PLANS AS DRAWN TO DATE.

THE WHITE BLUFFS FERRY WAS CLOSED DOWN BY THE ARMY ON DECEMBER 1, 1960.

PERSONNEL (ON-SITE)

	<u>NOVEMBER 1</u>	<u>NOVEMBER 30</u>
ATOMIC ENERGY COMMISSION -----	293	294
GENERAL ELECTRIC COMPANY -----	7,978	7,998
TOTAL CONSTRUCTION PERSONNEL -----	<u>1,844</u>	<u>1,996</u>
TOTAL PROJECT PERSONNEL -----	<u>10,115</u>	<u>10,288</u>

SAFETY

ON NOVEMBER 18, 1960, M. F. WATT, 44-YEAR OLD GE PIPEFITTER, FELL APPROXIMATELY 15 FEET IN VENTILATION FAN ROOM, 105 KW BUILDING, RECEIVING SEVERE BLOW ON HEAD. EMPLOYEE HAS BEEN IN A DEEP COMA SINCE.

ON NOVEMBER 22, 1960, A PATENTED HIGH PRESSURE STUD-BOLT CONNECTOR FAILED ON ONE OF THE NPR HIGH PRESSURE STUDY LOOPS IN THE 1706 KER FACILITY. THE WATER CONTENTS UNDER 3,375 PSI AT 300° C FLASHED TO STEAM, CAUSING AN ESTIMATED \$4,700 DAMAGE TO THE LOOP AND APPURTENANCES. INVESTIGATION CONTINUES.

ON NOVEMBER 24, 1960, A POLE-TOP FIRE IN THE 13,800 VOLT POWER LINE AT THE 100-N AREA WAS DISCOVERED BY THE KAISER ENGINEER FIRE WATCHMAN. A COMPLETE AREA OUTAGE RESULTED FROM 8:06 P.M. TO 9:50 P.M. ESTIMATED DAMAGES \$550. NO WORK STOPPAGE RESULTED.

LABOR RELATIONS

CONTRACT NEGOTIATIONS BETWEEN GE AND HAMTC WERE DEADLOCKED, AND THE ATOMIC ENERGY LABOR MANAGEMENT RELATIONS PANEL INTERVENED IN THE DISPUTE AFTER EFFORTS OF THE FEDERAL MEDIATION AND CONCILIATION SERVICE FAILED TO HELP THE PARTIES EFFECT A SETTLEMENT.

ON NOVEMBER 12 AND 13 THE PANEL CONDUCTED HEARINGS AT YAKIMA TO HEAR ARGUMENTS BY BOTH PARTIES. SUBSEQUENTLY, BOTH GE AND HAMTC SUBMITTED BRIEFS TO THE PANEL, WHICH IS EMPOWERED TO RECOMMEND TERMS FOR SETTLEMENT. THE PANEL IS EXPECTED TO ISSUE A DECISION AROUND THE MIDDLE OF DECEMBER.

THE HANFORD GUARDS UNION AND GE REACHED AGREEMENT ON THE TERMS OF A NEW CONTRACT ON NOVEMBER 11. THE AGREEMENT PROVIDES FOR A 3% INCREASE TO BE APPLIED TO BASE SALARY RATES IN EFFECT ON SEPTEMBER 30, 1960; REVISIONS TO THE PENSION AND INSURANCE PLANS; A NEW INCOME EXTENSION PLAN PROPOSED BY GE; AND VARIOUS REVISIONS TO OTHER PARTS OF THE FORMER AGREEMENT. THE NEW GE-HGU AGREEMENT WAS EFFECTIVE OCTOBER 3, 1960, AND EXPIRES DECEMBER 1, 1963.

END

**DATE
FILMED**

9 / 18 / 92