DECLASSIFIED
WITH DELETIONS

CHAN-77440-Del

AIR MAIL

HAN--77440-Del.

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

DE92 018840

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

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:RHL

Enclosed herewith is Part I [REDACTED] of subject report for the month of [REDACTED]. The "Official Use Only" portion, Part II, is forwarded as a separate report.

Classification Cancelled (Change to

Declassified w/Deletions

By Authority of

CFR-2

DS Form 4/20/92

DOJ 4/20/92

PA 2/2/92

Enclosure:

Cy. # 17, Monthly Status and Progress Report, Part I
Document # Hanford 7-1-1961

DISTRIBUTION:

Copies 1 thru 9 - Addressee
Copy 10 - CE&S Division
Copy 11 - PE&M Division
Copy 12 - CR&R Division
Copy 13 - Security Division
Copy 14 - Mr. Raymond C. 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.

MASTER

AIR MAIL

DECLASSIFIED
WITH DELETIONS

Received 9/21/92

AUG 05 1992

DISTRIBUTION RESTRICTED TO U.S. ONLY

DECLASSIFIED

DOCUMENT NO. HAN-77440 *Del*

THIS DOCUMENT CONSISTS OF 11 PAGES.
NO. 12 OF 17 COPIES. SERIES "A".

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

DECEMBER 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]

[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

DECEMBER 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 - 6
SEPARATIONS	7
NEPTUNIUM PROCESSING	7
PLUTONIUM-ALUMINUM TARGET ELEMENTS	7
<u>PLANT ACQUISITION AND CONSTRUCTION</u>	
PROJECT AND DESIGN STUDIES	8
PLANT CONSTRUCTION	8 - 11
PROCUREMENT	11
CONTRACT ACTIONS	11

DECLASSIFIED

DECLASSIFIED

DOCUMENT NO. HAN-77440 *del*

HIGHLIGHT STATEMENT - DECEMBER 1960

OPERATIONS

THE NET PRODUCTION OF CANNED FUEL ELEMENTS WAS 615 TONS. THIS WAS 89.7% OF FORECAST AND CONSISTED OF 535 TONS OF I&E NORMAL URANIUM AND 80 TONS OF I&E 94 METAL. YIELDS WERE 84.2% AND 80.6%, RESPECTIVELY.

IN-REACTOR PRODUCTION TOTALLED 109.6% OF FORECAST, ESTABLISHING A NEW RECORD. OVER-ALL TIME-OPERATED EFFICIENCY WAS 84.9%. NEW POWER LEVEL RECORDS WERE ESTABLISHED AT B, C, D, F, H, AND KW REACTORS. THERE WERE 13 FUEL ELEMENT FAILURES. THESE INCLUDED ONE SOLID AND SIX I&E NORMAL-URANIUM PIECES, FIVE I&E 94-METAL PIECES, AND ONE KER-TEST PIECE.

TOTAL SEPARATION PLANT PLUTONIUM PRODUCTION WAS 158.2% OF FORECAST, WITH 94% OF THE TOTAL PRODUCED BY PUREX AND 6% BY REDOX. ABOVE-FORECAST PRODUCTION AT PUREX RESULTED FROM RESCHEDULING THE NEPTUNIUM RUN TO LATER IN THE MONTH.

THE TOTAL PRODUCTION OF UO_3 WAS 648 TONS OF NORMAL URANIUM, 117.8% OF FORECAST. ALL SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 95.2% COMPLETE VS. 100% SCHEDULED.

REACTOR CONFINEMENT - DESIGN IS 100% COMPLETE AND CONSTRUCTION IS 85% COMPLETE VS. 76% SCHEDULED.

NPR - DESIGN IS 82% COMPLETE AND CONSTRUCTION IS 8% COMPLETE VS. 14% SCHEDULED.

INCREASED PROCESS WATER FLOW, 100-K - DESIGN IS 65% COMPLETE AND CONSTRUCTION IS 1% COMPLETE VS. 1% SCHEDULED.

DECLASSIFIED

Document No. HAN-77440 *Del*

PLANT OPERATIONS

METAL PREPARATION

CANNING -

THE NET PRODUCTION OF ACCEPTABLE CANNED FUEL ELEMENTS WAS 615 TONS, 89.7% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM I&E	535 TONS	84.2% YIELD
94 METAL I&E	80 TONS	80.6% YIELD

FIVE CANNING LINES OPERATED TWO SHIFTS PER DAY ON A FIVE-DAY-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 94.3%.

AT MONTH END, THE COMBINED INVENTORY OF NORMAL URANIUM BARE, IN-PROCESS, AND FINISHED ACCEPTABLE FUEL ELEMENTS FOR ROUTINE PRODUCTION MODELS VARIED BY MODEL FROM 1.0 TO 4.1 MONTHS' SUPPLY. THE COMBINED INVENTORY OF 94-METAL PIECES VARIED BY MODEL FROM 2.8 TO 4.2 MONTHS' SUPPLY. THE INVENTORY OF ALUMINUM CAPS AND CANS WAS APPROXIMATELY A 3.2 MONTHS' SUPPLY.

WELD INSPECTION - DUE TO THE REAPPEARANCE OF INTERNAL (HOLE) FAILURES, A SECOND VISUAL WELD INSPECTION WAS INITIATED AT THE FINAL INSPECTION STATION IN DECEMBER. IT IS HOPED THAT THIS INSPECTION WILL REJECT PIECES WITH WELD DEFECTS WHICH MAY HAVE BEEN MISSED AT THE INSPECTION PRIOR TO AUTOCLAVING AND WHICH DID NOT FAIL DURING AUTOCLAVING BUT COULD CAUSE A RUPTURE AFTER EXPOSURE TO THE CORRODING ENVIRONMENT IN THE REACTORS.

URANIUM SURFACE "CHECKING" - DURING PICKLE INSPECTION IN NOVEMBER, SEVERAL URANIUM FUEL ELEMENT CORES WERE FOUND TO HAVE SEVERE SURFACE "CHECKING." SOME OF THE CORES WERE VIRGIN MATERIAL AND SOME WERE RECOVERED PIECES. CHEMICAL ANALYSIS SHOWED THAT THESE CORES CONTAINED IRON IN CONCENTRATIONS UP TO 600 PPM COMPARED WITH THE HANFORD SPECIFICATION OF 150 PPM MAXIMUM. DURING DECEMBER, IT WAS DECIDED THAT THIS PROBLEM WAS SERIOUS ENOUGH TO REQUIRE RETESTING OF ALL FUEL ELEMENT LOTS SUSPECTED OF CONTAINING CHECKED CORES. BOTH CANNED AND BARE MATERIAL ARE BEING RETESTED WITH ULTRASONIC EQUIPMENT FOR SURFACE DEFECTS. THIS HAS REQUIRED SOME REVISION OF THE CANNING SCHEDULE AT HANFORD IN ORDER TO MAINTAIN REASONABLE INVENTORIES OF ACCEPTABLE CANNED PIECES IN ALL MODELS.

AUTOCLAVE FAILURES - ONE FUEL ELEMENT FAILED DURING AUTOCLAVE TESTING IN DECEMBER. THE FAILURE WAS ATTRIBUTED TO WATER PENETRATION THROUGH A PINHOLE IN THE CAP WELD.

ON DECEMBER 21, 1960, AN INADEQUATELY SECURED COVER WAS BLOWN OFF OF A PRODUCTION AUTOCLAVE JUST AS THE AUTOCLAVE HAD BEEN BROUGHT TO ITS FULL OPERATING PRESSURE OF 115 PSI. THE COMPLETE CHARGE OF FUEL ELEMENTS (420 PIECES) WAS HURLED THROUGH THE ROOF OF THE 313 BUILDING PRODUCING DAMAGE ESTIMATED AT \$10,000. THERE WAS NO SERIOUS INJURY TO PERSONNEL AND NO RADIOACTIVE CONTAMINATION. A FORMAL INVESTIGATION IS TO BE CONDUCTED EARLY IN JANUARY.

SCRAP SHIPMENTS - ONE SCRAP SHIPMENT CONTAINING APPROXIMATELY 28 TONS OF NORMAL URANIUM AND 2.3 TONS OF 94 METAL WAS MADE IN DECEMBER.

REACTOR OPERATION

DURING DECEMBER, 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)	73.8	83.6	72.4	71.4	73.4	76.0	153.0	160.0	763.6
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	68.8	76.9	70.9	68.6	70.4	73.4	139.9	154.8	723.7
TIME-OPERATED EFFICIENCY	82.2	77.8	92.6	89.4	83.4	92.5	74.9	86.3	84.9

IN-REACTOR PRODUCTION WAS 109.6% OF FORECAST ^{1/}. THIS EXCEEDED THE PREVIOUS MAXIMUM (NOV. 1960) BY 0.3%, ESTABLISHING A NEW MONTHLY PRODUCTION RECORD. THE OVER-ALL TIME-OPERATED EFFICIENCY WAS 84.9% AS COMPARED WITH A FORECAST OF 82.0%. THE PRODUCTION EFFICIENCY ^{3/} WAS 84.1%. POWER LEVEL RECORDS WERE INCREASED AT B, C, D, F, H, AND KW.

^{1/} DOCUMENT HW-67099 (HAN-76786) JOHNSON/TRAVIS, DATED 10/25/60, SUBJECT "HAPO PRODUCTION FORECAST."

^{2/} DOCUMENT HAN-76029 QUINN/TRAVIS, DATED 7/20/60, SUBJECT "REVISION OF INDEX NUMBERS."

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

REACTOR OPERATION (CONT'D)

REACTOR POWER LEVELS WERE GENERALLY LIMITED BY RUPTURE CONTROL MEASURES. H AND KW REACTORS WERE ADDITIONALLY RESTRICTED FOR A PORTION OF THE TIME BY THE ADMINISTRATIVE LIMIT.

FUEL ELEMENT FAILURES - THERE WERE 13 RUPTURES DURING DECEMBER; SIX OF THESE WERE I&E NORMAL, ONE SOLID NORMAL, FIVE I&E 94 METAL, AND ONE KER TESTING PIECE. THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,223, INVOLVING 1,243 PIECES (153 I&E). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 97, INVOLVING 99 PIECES.

EQUIPMENT EXPERIENCE - TEN PROCESS TUBES WERE INSTALLED: 8 AT B AND 2 AT DR. FOUR TUBE LEAKS AND ONE VAN STONE LEAK WERE CORRECTED. TWO TUBE LEAKS WERE AT B AND ONE EACH AT DR AND H. THE VAN STONE LEAK WAS AT F. THE NO. 5 PUMP AT 181-D WAS REMOVED FROM SERVICE BECAUSE OF EXCESSIVE VIBRATION. INSPECTION SHOWED A CRACK IN THE LOWER COLUMN SECTION OF THE PUMP WHICH WAS CORRECTED BY WELDING.

THE FAILURE OF A REAR-FACE PARKER FITTING AT D REACTOR WAS INVESTIGATED. THE FITTING CRACKED IN THE THIRD RELIEF AREA. A PECULIAR PITTING COMPLETELY THROUGH THE FITTING NEAR THE FLARE AREA WAS OBSERVED BUT NO THEORY ON THIS HAS BEEN DEVELOPED. THIS IS THE SECOND FAILURE OF THIS TYPE, THE FIRST OCCURRED IN 105-F IN EARLY 1960, BUT THE CONNECTION WAS ABANDONED BEFORE COMPLETE FAILURE.

FUEL TESTING - THIRTY COLUMNS OF SELF-SUPPORTED FUEL WERE DISCHARGED FROM C REACTOR AT AN AVERAGE EXPOSURE OF 918 MWD/T DURING THE OUTAGE OF DECEMBER 4. THE FUEL IN ONE TUBE (3672-C, 878 MWD/T) FAILED TO MOVE UNDER FULL FORCE OF THE CHARGE MACHINE AND WAS CLASSIFIED AS THE FIRST STUCK CHARGE EXPERIENCED IN A SELF-SUPPORTED FUEL GEOMETRY. THE TUBE WAS FINALLY DISCHARGED WITH CHARGE MACHINE FORCES AFTER UNDERGOING A SERIES OF OIL FLUSHES BETWEEN PUSHES.

TWELVE TUBES OF BUMPER FUEL ELEMENTS (4-RAIL) WERE SUCCESSFULLY MACHINE CHARGED AT D REACTOR DURING THE DECEMBER 12 OUTAGE, BRINGING THE TOTAL NUMBER OF BUMPER CHARGES IN D REACTOR TO 36. POSTIRRADIATION EXAMINATIONS OF BUMPER ELEMENTS TO DETERMINE THE ASSOCIATED HOT-SPOT FREQUENCY REDUCTION HAVE BEEN COMPLETED, AND DATA ARE BEING PREPARED FOR MACHINE ANALYSIS PROCESSING.

ELEMENTS WITH BRAZED-END CLOSURES BEING IRRADIATED IN KER-2 AND KER-4 HAVE REACHED AN EXPOSURE OF ABOUT 540 MWD/T.

REDUCTION OF REACTOR EFFLUENT ACTIVITY - THE TEST AT 100-B MEASURING THE EFFECTS ON EFFLUENT ACTIVITY OF ADDING 18 PPM ALUMINUM SULFATE IN THE WATER TREATMENT PROCESS WAS TERMINATED DECEMBER 8. REDUCTION OF RADIOISOTOPE CONCENTRATIONS HAD APPARENTLY LEVELED OFF. THE FOLLOWING REDUCTIONS WERE REPORTED: P-32, 60%; CU-64, 33%; AS-76, 75%; ZN-65, 33%; CR-51, 25%; AND NP-239, 57%.

THE TEST AT 100-H MEASURING THE EFFECT OF ADDING 20 PPM ALUMINUM NITRATE IN THE WATER TREATMENT PROCESS IS CONTINUING TO STUDY CORROSION EFFECTS. THE FOLLOWING REDUCTIONS WERE REPORTED: P-32, 70%; CU-64, 33%; AS-76, 75%; ZN-65, 25%; CR-51, 25%; AND NP-239, 65%. THE CONCENTRATION IN THE INFLUENT WATER IS KNOWN TO HAVE BEEN THE SAME ON THE TEST SIDE AND THE CONTROL SIDE OF BOTH REACTORS.

NITROGEN TEST - THE INITIAL REPLACEMENT OF CO₂ AS A PILE GAS BY N₂ OCCURRED WITHOUT INCIDENT IN KE REACTOR. A GAS COMPOSITION OF ABOUT 75% HE AND 25% N₂ WAS ATTAINED. ALTHOUGH LACK OF OPERATING CONTINUITY RESTRICTED ANALYSIS OF THE GAS TRANSITION, SCATTERED DATA SUPPORTED THE ANTICIPATION OF NEGLIGIBLE HOT REACTIVITY LOSS DUE TO THE HIGHER NEUTRON CAPTURE CROSS SECTION OF N₂.

REACTOR OUTAGES

REACTOR	DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
B	11-30	12-3	65.3	CONCLUDED RUPTURE REMOVAL, TUBE REPLACEMENT, AND MISCELLANEOUS MAINTENANCE.
	12-18	12-19	35.9	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 1559.
	12-21	12-23	44.1	LEAK TESTING AND TUBE REPLACEMENT.
C	12-4	12-8	89.4	CHARGE-DISCHARGE AND MAINTENANCE.
	12-14	12-15	33.7	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 0957.
	12-25	12-27	41.8	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 2276.
	12-29	12-29	0.4	LEAKING FRONT PIGTAIL.
	12-30	12-30	0.3	SCRAM WHILE RESETTING NO. 1 BECKMAN.
D	12-12	12-15	55.2	SCHEDULED CHARGE-DISCHARGE.

DECLASSIFIED

DECLASSIFIED

PLANT OPERATIONS (CONT'D)

DOCUMENT NO. HAN-77440 *D-2*

REACTOR OPERATION (CONT'D)

REACTOR OUTAGES (CONT'D)

REACTOR	DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
DR	12-11	12-13	41.8	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 4090 AND CHARGE-DISCHARGE.
	12-22	12-23	36.9	LEAK TESTING AND TUBE REPLACEMENT.
F	11-30	12-2	47.4	CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE, FOLLOWING RUPTURE REMOVAL.
	12-3	12-3	1.5	OPEN GAMMA MONITOR SAMPLE LINE.
	12-3	12-4	21.9	LEAK TESTING AND CORRECTION.
	12-17	12-19	54.6	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2861 FOLLOWED BY CHARGE-DISCHARGE AND MAINTENANCE.
H	12-26	12-29	55.8	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 1472 AND CHARGE-DISCHARGE.
	12-29	12-29	0.3	PANELLIT TRIP.
KE	12-7	12-8	42.8	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 5369. INSTALLED TWO SINGLE-PASS TUBES FOR 1706 SYSTEM.
	12-8	12-9	3.0	SCRAM TO REPLACE VENTURIS.
	12-9	12-9	6.2	TRIPPED DUE TO A RUPTURE IN KER LOOP 3.
	12-10	12-12	36.4	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 3476.
	12-15	12-17	34.7	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 4351 FOLLOWED BY CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
	12-18	12-18	0.5	TRIPPED DUE TO A RUPTURED SPLINE CAP SEAL ON TUBE 4588.
	12-18	12-19	31.6	MISCELLANEOUS MAINTENANCE, FOLLOWING A HIGH PRESSURE PANELLIT TRIP.
	12-20	12-20	0.4	ADJUSTED SHIELDING IN TWO VERTICAL ROD CHANNELS.
KW	12-21	12-22	31.0	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 5055.
	12-4	12-5	41.1	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 5359 AND CHARGE-DISCHARGE.
	12-21	12-23	60.6	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 5261 AND CHARGE-DISCHARGE.

FUEL ELEMENT FAILURES

TABULATION OF RUPTURED URANIUM SLUGS

TUBE NO.	DATE RUPTURED	TUBE POWER $\frac{1}{2}$	CONCENTRATION (MWD/T)	ASSIGNED LOSS		METAL	TYPE FAILURE
				MWD	DAYS		
(NORMAL)							
3476-KE	12-10	1397	495	513	0.13	I&E	HOLE FAILURE.
4090-DR	12-11	762	793	1116	0.63	SOLID	SPLIT
4351-KE	12-15	1342	530	499	0.13	I&E	HOLE FAILURE.
2861-F	12-17	1230	499	595	0.33	I&E	UNKNOWN.
1559-B	12-18	1207	603	637	0.34	I&E	SIDE OTHER.
5055-KE	12-21	1336	585	1104	0.29	I&E	HOT SPOT.
1472-H	12-26	985	524	834	0.45	I&E	HOT SPOT.
(94 METAL)							
5359-KW	12-4	1589	619	892	0.23	I&E	HOT SPOT.
5369-KE	12-7	1461	603	745	0.21	I&E	HOLE FAILURE.
0957-C	12-14	1189	590	344	0.17	I&E	HOLE FAILURE.
5261-KW	12-21	1705	426	698	0.17	I&E	HOT SPOT.
2276-C	12-25	1278	514	559	0.27	I&E	HOT SPOT.
(KER TESTING)							
KER-3 3565	12-9	640	2173	745	0.21	TUBU- LAR 2/	UNCLASSIFIED.

1/ AT TIME OF RUPTURE.

2/ SINGLE-TUBE, ZIRCALLOY-CLAD, NATURAL-URANIUM FUEL ELEMENT.

DECLASSIFIED
WITH DELETIONS

PLANT OPERATIONS (CONT'D)

DOCUMENT NO. HAN-77440 *Del*

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 158.2% OF FORECAST ^{1/} PUREX SEPARATED 94.0% OF THIS WHILE REDOX SEPARATED 6.0%.

PUREX - OPERATIONS WERE CONTINUOUS AT RATES OF 28 TO 29 TONS PER DAY THROUGH DECEMBER 23. ABOVE-FORECAST PRODUCTION OF 703 TONS OF NORMAL URANIUM WAS DUE TO RESCHEDULING THE NEPTUNIUM RECOVERY RUN FOR LATER IN THE MONTH. PLANT PERFORMANCE AND DECONTAMINATION EFFICIENCIES WERE SATISFACTORY. THE RELEASE OF RADIOACTIVE IODINE INCREASED SHARPLY DURING MIDMONTH BUT RETURNED TO NORMAL BEFORE SHUTDOWN. THE INCREASE WAS DUE TO HIGH PROCESSING RATES AND LOW AGED MATERIAL, ALTHOUGH THE MATERIAL WAS AGED FOR MORE THAN 90 DAYS. INCREASING THE AGE OF FEED MATERIAL IS BEING CONSIDERED SO THAT IODINE EMISSION AT MAXIMUM PRODUCTION RATES WILL BE WITHIN THE CAPABILITIES OF PRESENT IODINE REMOVAL EQUIPMENT.

REDOX - OPERATIONS WERE SATISFACTORY AND CONTINUOUS ON A FIVE-DAY-PER-WEEK BASIS UNTIL DECEMBER 20. DURING THE OPERATING TIME, 81.6 TONS OF 94 METAL WAS PROCESSED. A NEPTUNIUM RECOVERY RUN, BUILDING MAINTENANCE, AND FLUSHING WERE PERFORMED DURING THE LAST TEN DAYS OF THE MONTH.

UO₃ - TOTAL PRODUCTION FOR DECEMBER WAS 648 TONS OF NORMAL URANIUM, 117.8% OF FORECAST. THIS GREATER-THAN-FORECAST PRODUCTION RESULTED FROM AN INCREASED SUPPLY OF FEED. NO 94 MATERIAL WAS PROCESSED. THE SHIPPING SCHEDULE, CONSISTING OF 11 CARS OF NORMAL UO₃ AND TWO OF ENRICHED UO₃, WAS MET.

STRONTIUM - STRONTIUM-90 RECOVERY OPERATIONS CONTINUED WITH THE FIRST TRANSFER OF CONCENTRATE-CRUDE MATERIAL TO THE 325 BUILDING HIGH-LEVEL RADIOCHEMICAL CELLS ON DECEMBER 19. THE MATERIAL WAS TRANSFERRED WITHOUT INCIDENT BY CASK.

NEPTUNIUM PROCESSING

FABRICATION CAMPAIGN XIII WAS COMPLETED IN DECEMBER WHEN 32 NEPTUNIUM ELEMENTS WERE SHIPPED TO SAVANNAH RIVER. DURING THIS CAMPAIGN, THERE WAS A TOTAL OF 86 ELEMENTS (3,224 GRAMS) FABRICATED AND SHIPPED WITHOUT ANY FABRICATION REJECTS.

^{1/} DOCUMENT HW-67099 (HAN-76786) JOHNSON/TRAVIS, DATED 10/25/60, SUBJECT "HAPO PRODUCTION FORECAST."

DECLASSIFIED
WITH DELETIONS

PLANT ACQUISITION AND CONSTRUCTIONPROJECT AND DESIGN STUDIES

REMOTELY OPERATED TUBE CLOSURE DEVICE - KE REACTOR - SEVENTY-THREE FLAPPER VALVES HAVE BEEN INSTALLED ON THE REACTOR. SINCE THE SEALS OF THESE VALVES ARE GIVING TROUBLE, NEW SEALS HAVE BEEN ORDERED AND WILL BE INSTALLED AT THE NEXT OUTAGE. AN ORDER HAS BEEN PLACED FOR 20 FLAPPER VALVES OF NEWER DESIGN. THESE WILL BE COMPLETE CASTINGS AND WILL HAVE CAM AND ROLLER OPERATION IN LIEU OF LINKAGE.

TWENTY BALL VALVES HAVE BEEN RECEIVED, AND SIX OF THEM WITH SEVERAL TYPES OF SEAL MATERIAL ARE INSTALLED ON THE REACTOR. AN ORDER HAS BEEN PLACED FOR 100 MORE BALL VALVES WHICH ARE TO HAVE NYLON SEALS AND CHROME-PLATED BALLS.

PROJECT PALM - PUREX - DESIGN IS 48% COMPLETE. FIFTEEN OF THE 75 PROCUREMENT REQUISITIONS HAVE BEEN ISSUED.

NEW FUEL CLADDING FACILITY - DESIGN IS 95% COMPLETE AND ON SCHEDULE.

PROJECTION FUEL ELEMENT MODIFICATIONS - 313 BUILDING - PHASE I - DESIGN IS 61% COMPLETE AND ON SCHEDULE.

PROCESS SAFETY MONITORING SYSTEM, HIGH-SPEED SCANNING TYPE FOR TEMPERATURE MONITORING - THE 116-POINT SCANNING SYSTEM HAS BEEN RECEIVED AND IS BEING SET UP IN THE INSTRUMENT DEVELOPMENT BUILDING. A REVISED PROPOSAL IS BEING PREPARED TO EXTEND THE DIRECTIVE COMPLETION DATE.

100-K AREA COOLANT BACKUP - DESIGN IS 59% COMPLETE VS. 49% SCHEDULED. AN INTERIM CONSTRUCTION WORK RELEASE OF \$200,000 IS BEING MADE TO J. A. JONES COMPANY TO BEGIN PROCUREMENT.

STRONTIUM-90 INTERIM PROGRAM - DESIGN IS 95% COMPLETE. OVER-ALL COMPLETION IS 50% VERSUS 50% SCHEDULED.

PROJECT BIRCH - REDOX - DETAILED DESIGN IS 12% COMPLETE. DESIGN SCHEDULE IS IN PREPARATION.

NPR CONVERSION STUDIES - ESTIMATES OF SALES OF ELECTRIC POWER RESULTING FROM THE POSSIBLE CONVERSION OF NPR HAVE BEEN SUBMITTED BY THE BONNEVILLE POWER ADMINISTRATION.

EFFECTS OF THE CANADIAN STORAGE TREATY HAVE BEEN CALCULATED, AND PLANT FACTORS COMPUTED TO TAKE THIS INTO ACCOUNT WERE COMPLETED AS OF DECEMBER 23, 1960. BURNS AND ROE DATA CALCULATED ON THE BASIS OF THIS NEW INFORMATION WERE SENT TO FEDERAL POWER COMMISSION ON DECEMBER 29, 1960.

RATTLESNAKE SPRINGS RADIOECOLOGY FACILITY - A DIRECTIVE WAS ISSUED ON DECEMBER 22 WITH A COMPLETION DATE OF OCTOBER 31, 1961.

PLANT CONSTRUCTION

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

PROJECT	PROJECT PROPOSAL NUMBER	MAJOR PROJECTS				DESIGN % ACTUAL CPL.	PRESENT WORKING ESTIMATE (THOUSANDS)
		ACTUAL STARTING DATE	SCHED. COMPL. DATE	CONSTRUCTION			
				COMPLETION			
				% SCHED.	% ACTUAL		
PRTR	AEC-167	3-6-58	6-30-61*	100	95.2	100	\$ 13,500
REACTOR CONFINEMENT	CGI-791	3-31-59	12-31-61	76	85	100	6,900
ADD'L PU FAB. FAC., 234-5 BLDG.	CGC-811	8-24-59	7-1-61	93	93	100	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	14	8	82	145,000
PRESS. GAS COOLED LOOP FACILITY	CAH-822	3-15-60	6-30-61	0**	11	100	1,120
MOD. OF FUEL ELEMENT TEST FAC., 1706-KER	CGI-839	2-1-60	10-30-61	4**	4	100	2,100
NEW FUEL CLADD. FAC.	CAF-847	7-27-59	10-1-61	28	28	95	3,600
FUEL ELEMENT RUPTURE TEST FACILITY	CAH-867	11-2-60	10-31-61	0**	3	91	1,500
INCR. PROCESS WATER FLOW 100-K AREA	CGI-883	5-6-60	1-31-63	1	1	65	5,100

* REVISED PROJECT PROPOSAL DATE FOR MAINTENANCE AND MOCKUP FACILITY. NEW SCHEDULE IS BEING PREPARED.

**A SCHEDULE IS BEING PREPARED.

DECLASSIFIED

DECLASSIFIED

DOCUMENT NO. HAN-77440-*Del*

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

PROJECT AEC-167, PLUTONIUM RECYCLE TEST REACTOR

OPERATING CONTRACTOR, GENERAL ELECTRIC COMPANY, CONTRACT AT(45-1)-1350 - ADDITIONAL CRITICAL TESTING WAS STARTED DURING LAST WEEK OF DECEMBER 1960.

PHASE II-D, GEORGE A. GRANT, INC., CONTRACT AT(45-1)-1613 - THE HELIUM LINE WAS COMPLETED AND TESTED AT 400 PSI. THE 2.4 KV ELECTRICAL CABLE LINE WAS COMPLETED.

PHASE III, J. A. JONES, CONTRACT AT(45-1)-687 - THE PRIMARY COOLANT SYSTEM'S HOT TEST AND DRYING PROCEDURES WERE COMPLETED.

PHASE V, J. A. JONES CONSTRUCTION COMPANY, CONTRACT AT(45-1)-687 - THE J. A. JONES COMPANY WILL COMPLETE REMAINING WORK ON PHASE V, INCLUDING INSTALLATION OF SHIELDING, OPTICAL AND MANIPULATING EQUIPMENT.

PROJECT CGI-791, REACTOR CONFINEMENT, PHASE II-B, CONTRACT NO. AT(45-1)-687, J. A. JONES CONSTRUCTION COMPANY - THE ONLY ACCEPTANCE TESTS REMAINING ARE THOSE TO BE RUN ON THE VANEAXIAL FANS AND THE BREATHING AIR SYSTEMS. TESTS RUN ON THE MODIFIED VANEAXIAL FANS BY THE VENDOR, JOY MANUFACTURING COMPANY, PROVED THAT THE MODIFIED FANS MET THE CONTRACT REQUIREMENTS.

PROJECT CGI-791, REACTOR CONFINEMENT, PHASE III, CONTRACT AT(45-1)-687, J. A. JONES CONSTRUCTION CO. - THE FOLLOWING WORK WAS COMPLETED THIS PERIOD:

- 100-B THE ABSOLUTE FILTERS HAVE BEEN INSTALLED IN BOTH CELLS AND TESTED.
- 100-C THE ABSOLUTE FILTERS HAVE BEEN INSTALLED IN ONE CELL AND TESTED. THE EXHAUST AIR FROM THE 105 BUILDING IS FLOWING THROUGH THESE FILTERS. THE FILTERS IN THE OTHER CELL ARE BEING TESTED.
- 100-H TEST OF THE ABSOLUTE FILTERS IN ONE CELL IS IN PROGRESS.
- 100-F THE ABSOLUTE FILTERS ARE BEING INSTALLED IN BOTH CELLS.
- 100-D THE STACK BREECHING TIE-IN WAS COMPLETED.
- 100-DR ABSOLUTE FILTERS HAVE BEEN INSTALLED IN "A" CELL AND TESTING IS UNDER WAY.
- 100-KE BOTH EMERGENCY DIESEL ENGINES FOR THE EXHAUST FANS WERE SET.

PROJECT CAI-816, NEW PRODUCTION REACTOR, KAISER ENGINEERS

DESIGN:

GENERAL ELECTRIC COMPANY - TITLE I

ESTIMATED COST	\$890,000
ACTUAL COST TO JANUARY 1	787,000
COMPLETION SCHEDULED	100%
ENGINEERS ASSIGNED	2
COMPLETION ACTUAL	100%*

*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 JANUARY 1	2,993,000	3,600,000
COMPLETION SCHEDULED	77%	74%
COMPLETION ACTUAL	77%	88%
PRESENT WORK FORCE	75	123
TOTAL MAN-DAYS TO DATE	41,144	54,940
TOTAL ESTIMATED MAN-DAYS REQUIRED	60,000	58,000
NUMBER OF DRAWINGS REQUIRED	2,200	864
CONSTRUCTION DRAWINGS - ACTUAL	1,722	800

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION (CONT'D)PROJECT CAI-816, NEW PRODUCTION REACTOR, KAISER ENGINEERS (CONT'D)GENERAL ELECTRIC COMPANY AND BURNS & ROE, INC. - TITLE II (CONT'D)

	G. E.	BURNS & ROE
NUMBER OF SPECIFICATIONS REQUIRED	125	155
NUMBER OF SPECIFICATIONS - ACTUAL	87	137
NUMBER OF REQUISITIONS REQUIRED	300	170
NUMBER OF REQUISITIONS - ACTUAL	182	143
NUMBER OF ATP'S REQUIRED	74	TO BE EST.
NUMBER OF ATP'S - ACTUAL	8	TO BE EST.
OVER-ALL DESIGN SCHEDULED	75.5%	
OVER-ALL DESIGN - ACTUAL	82.0%	

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

ESTIMATED COST	\$1,570,000	\$1,060,000
COST TO DATE, JANUARY 1	125,000	235,000
ENGINEERS ASSIGNED	12	25

STATUS OF SUBCONTRACTS AND PURCHASE ORDERS - NEW PRODUCTION REACTOR

STATUS	SUBCONTRACTS		ORDERS FOR ENGINEERED EQUIPMENT		ALL PURCHASE ORDERS (INCL. ENGINEERED EQ.)	
	NUMBER	VALUE	NUMBER	VALUE	NUMBER	VALUE
COMPLETED	52(B)	\$ 1,030,000				
ACTIVE	24(A)	21,851,000				
A. TOTAL AWARDS	76	22,881,000	177(C)	\$29,502,000	2,208(C)	\$30,965,000
BIDS UNDER REVIEW	2	9,000,000	36	4,872,000		
OUT FOR BIDS*	5	2,950,000	35	3,096,000		
PREPARING FOR BIDS*	1	75,000	9	251,000		
B. TOTAL IN PROCESS*	8	12,025,000	80	8,219,000		
C. TO BE PROCESSED*	30(B)	12,461,000	217	10,692,000		
D. TOTAL (A, B, & C)*	114	\$47,367,000	474	\$48,413,000		

* ESTIMATED.

(A) INCLUDES 7 SUBCONTRACTS FOR ENGINEERED EQUIPMENT - \$4,309,000.

(B) INCLUDES SHORT-TERM SUBCONTRACTS.

(C) DOES NOT INCLUDE (A) ABOVE.

CONSTRUCTION:

105-N AND 109-N BUILDINGS EXCAVATION AND SUBSTRUCTURES, SOUND CONSTRUCTION AND ENGINEERING COMPANY (SC-15) - FOUR THOUSAND TWO HUNDRED FIVE CUBIC YARDS OF CONCRETE WERE PLACED DURING THIS PERIOD BY THE SUBCONTRACTOR FOR A TOTAL OF 28,610 CUBIC YARDS PLACED TO DATE.

105-N SUPERSTRUCTURE CONCRETE, CONTRACT AT(45-1)-1455, KAISER ENGINEERS - ONE THOUSAND SIX HUNDRED AND FORTY-SIX CUBIC YARDS OF CONCRETE WERE PLACED THIS PERIOD FOR A TOTAL OF 2,056 CUBIC YARDS TO DATE. THE ELECTRICAL CONTRACTOR ON THE CPFF WORK HAS INCREASED HIS FORCE TO ACCEPTABLE SIZE.

163-N AND 183-N WATER TREATMENT FACILITIES BUILDING, SOUND CONSTRUCTION AND ENGINEERING COMPANY (SC-26) - THREE HUNDRED AND TWENTY-SIX CUBIC YARDS OF CONCRETE WERE PLACED IN THE 183-N COAGULATION BASIN FOR A TOTAL OF 2,598 CUBIC YARDS TO DATE FOR THIS STRUCTURE. ELECTRICAL GROUNDING CABLES AND CONDUIT WERE PLACED IN THE 163-N BUILDING.

151-N AND 153-N SWITCHGEAR BUILDINGS, MOWAT BROTHERS (SC-35) - CONTRACTOR STARTED WORK ON ACCEPTANCE TEST ITEMS IN 151-N BUILDING.

DECLASSIFIED

Document No. HAN-77440 - Del

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

PROJECT CAI-816, NEW PRODUCTION REACTOR (CONT'D)

CONSTRUCTION: (CONT'D)

166-N FUEL OIL STORAGE TANKS, RECONDITIONING OF SIX EXISTING TANKS, AND CONSTRUCTION OF DIKES AND FOUNDATIONS, PITTSBURGH-DES MOINES (SC-40) - PENETRATION WELDING OF THE FUEL OIL STORAGE TANK IS UNDER WAY AND STARTED SANDBLASTING THE FUEL OIL DAY TANK PRIOR TO PAINTING.

184-N STANDBY POWERHOUSE SUPERSTRUCTURE, PUGET SOUND BRIDGE AND DRY DOCK COMPANY (SC-50) - EXCAVATION AND FORMWORK STARTED ON COMPRESSOR FOUNDATION.

182-N WATER STORAGE TANKS AND FOUNDATIONS, GRAVER TANK AND MANUFACTURING COMPANY (SC-54) - SUB-CONTRACTOR STARTED EXCAVATION FOR THE FILTER WATER STORAGE TANK FOUNDATION.

181-N RIVER WATER PUMP HOUSE SUPERSTRUCTURE, MECHANICAL AND ELECTRICAL, HOFFMAN-UNIVERSITY INDUSTRIAL (SC-56) - INSTALLATION OF WASH WATER SCREENS IS 30% COMPLETE IN CELL 1.

117-N EXHAUST FILTER BUILDING AND BALANCE OF TUNNEL, KAISER ENGINEERS, CONTRACT AT(45-1)-1455 - THREE HUNDRED FOURTEEN CUBIC YARDS OF CONCRETE HAVE BEEN PLACED TO DATE ON THE EXHAUST TUNNEL.

1503-N AND 1900-N SITE AND AREA UNDERGROUND ELECTRICAL DISTRIBUTION SYSTEM, GENERAL AREA PIPING SYSTEMS, CLEVELAND ELECTRIC COMPANY (SC-69) - SUBCONTRACTOR RECEIVED NOTICE TO PROCEED EFFECTIVE DECEMBER 29, 1960.

PROJECT CGI-839, MODIFICATION OF FUEL ELEMENT TEST FACILITIES, 1706 KER (CONTRACT AT(45-1)-1626, FRANK H. LOHSE - CONCRETE WORK UNDER WAY. ROOF DECK HAS BEEN POURED.

PROJECT CAC-881, EMERGENCY COOLING WATER FACILITIES, TANK FARM NO. 241-A, 200 EAST AREA, CONTRACT AT(45-1)-1625, CECIL C. HILL - FOUNDATION HAS BEEN COMPLETED FOR THE COOLING TOWER TO BE ERECTED BY CONTRACTOR ON CONTRACT AT(45-1)-1617.

PROJECT CGI-889, EFFLUENT SYSTEMS MODIFICATION, 100-B/C AREA, J. A. JONES CONSTRUCTION COMPANY, CONTRACT AT(45-1)-587 - EXCAVATION FOR THE NEW 56-INCH EFFLUENT LINE HAS STARTED.

PROCUREMENT (FOR PERIOD COVERING DECEMBER 2 THROUGH DECEMBER 30, 1960)

THE ATOMIC ENERGY COMMISSION APPROVED 25 AWARDS RECOMMENDED BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$261,760.12.

SEVENTEEN AWARDS RECOMMENDED BY KAISER ENGINEERS WERE APPROVED BY THE ATOMIC ENERGY COMMISSION IN THE TOTAL AMOUNT OF \$1,398,955.93.

THREE AWARDS RECOMMENDED BY J. A. JONES WERE APPROVED BY THE ATOMIC ENERGY COMMISSION IN THE TOTAL AMOUNT OF \$59,150.30.

THE ATOMIC ENERGY COMMISSION PROCESSED 272 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$308,640.13.

CONTRACT ACTIONS

ONE CONSTRUCTION CONTRACT WAS AWARDED BY THE ATOMIC ENERGY COMMISSION DURING THE MONTH OF DECEMBER IN THE AMOUNT OF \$72,465.

AIR MAIL

JAN 13 1961

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 DEC 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 E. Phillips, Regional Audit
- 1 Copy - Classified Files (Reading File)
- 1 Copy - AEC Records Center
- 1 Copy - Budget Division ←

DECLASSIFIED

AIR MAIL

[REDACTED]

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

DECEMBER 1960

PART II

DECLASSIFIED

[REDACTED]

DECLASSIFIED

MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

DECEMBER 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>LABOR RELATIONS</u> -----	4
<u>SAFETY</u> -----	4

OFFICIAL USE ONLY

COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR DECEMBER 1960:

	<u>DECEMBER 1</u>	<u>DECEMBER 31</u>
A. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	134	133
2. TOTAL APARTMENTS UNOCCUPIED	0	1
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		62	388	99	549
VACANT		158	12	1	171

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

INCREASED VACANCIES APPARENTLY RESULTED FROM THE TRANSFER OF MILITARY PERSONNEL, FOLLOWING DEACTIVATION OF THE MISSILE BATTALION AT CAMP HANFORD.

DISPOSAL:

A PRIORITY POSTING WAS MADE ON TWO McVICKER COMMERCIAL PROPERTIES IN THE UPTOWN SHOPPING DISTRICT AND ON THE CHARLES WELLS PROPERTY IN THE DOWNTOWN SHOPPING DISTRICT IN CONNECTION WITH THE FIRST OFFER TO LESSEES.

NO BIDS WERE RECEIVED BY HHFA ON BLOCK 732, THE LAND NORTH OF EXISTING UPTOWN SHOPPING AREA. THE FHA OFFICE IN WASHINGTON HAS, THEREFORE, BEEN ASKED TO APPRAISE THE BLOCK BY INDIVIDUAL LOTS, PRIOR TO ANY REOFFERING.

THE HHFA CLOSED SALES ON THREE COMMERCIAL PROPERTIES DURING THE MONTH: DAVIS FURNITURE COMPANY, RICHLAND FUEL COMPANY, AND THORNESS SERVICE STATION.

THE WASHINGTON OFFICE OF HHFA RECEIVED ONE ACCEPTABLE BID, AT PAR, ON ABOUT \$530,000 WORTH OF MORTGAGES ON RICHLAND PROPERTIES.

THE REPORT OF SALES FOR THE MONTH ENDING DECEMBER 31, 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	3	79	5	1
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	0	80	7	3
COMMERCIALS	67	2	9	58	1
INDUSTRIAL	41	2	27	14	2
FLOOD PLAINS	39	0	39	0	0
	<u>5,360</u>	<u>7</u>	<u>5,233</u>	<u>127</u>	<u>15</u>

DECLASSIFIED

DECLASSIFIED

COMMUNITY OPERATIONS (CONT'D)

REAL ESTATE:

THE CORPS OF ENGINEERS IS PLANNING TO ADVERTISE FOR A CONTRACTOR TO DRILL TEST HOLES ON WOODED ISLAND (IN COLUMBIA RIVER NORTH OF THE 300 AREA) AT THE BEN FRANKLIN DAM SITE.

PERSONNEL (ON-SITE)

	<u>DECEMBER 1</u>	<u>DECEMBER 31</u>
ATOMIC ENERGY COMMISSION -----	294	295
GENERAL ELECTRIC COMPANY -----	7,998	8,022
TOTAL CONSTRUCTION PERSONNEL -----	<u>1,996</u>	<u>2,090</u>
TOTAL PROJECT PERSONNEL -----	<u>10,288</u>	<u>10,407</u>

LABOR RELATIONS

ON DECEMBER 24, 1960, THE GENERAL ELECTRIC COMPANY AND THE HAMTC RECEIVED THE RECOMMENDATIONS OF THE ATOMIC ENERGY LABOR MANAGEMENT RELATIONS PANEL CONCERNING THE COLLECTIVE BARGAINING DISPUTE BETWEEN GE AND HAMTC.

THE PANEL DECLINED TO MAKE RECOMMENDATIONS ON CERTAIN ASPECTS OF THE DISPUTE, SUGGESTING THAT THESE SUBJECTS SHOULD BE MORE FULLY EXPLORED IN NEGOTIATIONS BETWEEN THE TWO PARTIES. HOWEVER, THE RECOMMENDATIONS WHICH THE PANEL DID MAKE ARE PRESENTLY BEING EVALUATED BY BOTH GE AND THE UNION.

NEGOTIATIONS RESUMED ON JANUARY 3, 1961.

SAFETY

THE CONDITION OF M. F. WATT, GE EMPLOYEE, INJURED ON NOVEMBER 18, 1960, REMAINS UNCHANGED. MINOR FAVORABLE PHYSICAL CONDITION SHOWS SOME HOPE FOR RECOVERY. MR. WATT HAS BEEN MOVED TO HIS HOME AS OF JANUARY 3, 1961.

ON DECEMBER 21, 1960, THE COVER AND CONTENTS OF A 313 BUILDING AUTOCLAVE WERE BLOWN THROUGH THE ROOF. DAMAGE ESTIMATED AT APPROXIMATELY \$11,000.

ON DECEMBER 26, 1960, OVERLOADED WIRING APPARENTLY CAUSED A FIRE IN A PUGET SOUND BRIDGE & DOCK CO. OFFICE TRAILER. ESTIMATED PRIVATE LOSS IS AROUND \$1,500.

**DATE
FILMED**
8/3/192