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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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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.

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HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

JANUARY 1960

PART I

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

JANURARY 1960

PART I

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HIGHLIGHT STATEMENT - JANUARY 1960

OPERATIONS

CANNED FUEL ELEMENT PRODUCTION TOTALLED 580 TONS, 96.3% OF FORECAST. THE TOTAL CONSISTED OF 90 TONS OF SOLID AND 434 TONS OF I&E NORMAL URANIUM AND 56 TONS OF I&E 94 METAL. YIELDS WERE 92.7% FOR SOLID AND 80.5% FOR I&E NORMAL-URANIUM AND 84.6% FOR 94-METAL PIECES. THE 92.7% FOR SOLID NORMAL-URANIUM PIECES IS A RECORD HIGH.

IN-REACTOR PRODUCTION TOTALLED 107.7% OF FORECAST AND ESTABLISHED A NEW MONTHLY PRODUCTION RECORD. THE OVER-ALL AVERAGE TIME-OPERATED EFFICIENCY WAS 82.2%. NEW MAXIMUM POWER LEVEL RECORDS WERE ESTABLISHED AT B, C, F, H, KE, AND KW. A NEW INDIVIDUAL REACTOR PRODUCTION RECORD WAS ESTABLISHED AT KE. DURING THE MONTH, THERE WERE 15 NORMAL-URANIUM FUEL ELEMENT FAILURES, INCLUDING 1 SOLID AND 14 I&E PIECES.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 141.6% OF FORECAST WITH 87.5% OF THE TOTAL PRODUCED BY PUREX AND 12.5% BY REDOX.

PRODUCTION OF NORMAL UO_3 TOTALLED 402 TONS, 100.5% OF FORECAST. ENRICHED UO_3 PRODUCTION TOTALLED 49 TONS, 105.2% OF FORECAST. ALL SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - DESIGN IS 38% COMPLETE AND CONSTRUCTION IS 0.3% COMPLETE VS. 0.4% SCHEDULED. (SEE PART I, PAGE 10.)

REACTOR CONFINEMENT - DESIGN IS 68% COMPLETE AND CONSTRUCTION IS 27% COMPLETE VS. 25% SCHEDULED. (SEE PART I, PAGE 10.)

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 67% COMPLETE VS. 80% SCHEDULED. (SEE PART I, PAGE 10.)

PFPP - DESIGN IS 95% COMPLETE AND CONSTRUCTION IS 87% COMPLETE VS. 85% SCHEDULED. (SEE PART I, PAGE 10.)

COMMUNITY

A TOTAL OF 5,127 OF 5,360 SALE PROPERTIES HAVE BEEN SOLD AND AN ADDITIONAL 18 GOOD FAITH DEPOSITS PENDING. (SEE PART II, PAGE 3.)

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PLANT OPERATIONS

METAL PREPARATION

CANNING - NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALLED 580 TONS, 96.3% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM			
SOLID	90 TONS	92.7% YIELD	
I&E	434 "	80.5% "	
94 METAL - I&E	56 "	84.6% "	

THE 434 TONS OF NORMAL-URANIUM I&E PIECES INCLUDED 3 TONS OF WATER MIXING ELEMENTS. THE 92.7% YIELD FOR SOLID NORMAL-URANIUM PIECES IS A RECORD HIGH. FIVE CANNING LINES WERE OPERATED ON EACH OF TWO SHIFTS ON A FIVE-DAY-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 92.8%.

AT MONTH END, THE TOTAL INVENTORY OF CANNED FUEL ELEMENTS WAS APPROXIMATELY 620 TONS AND VARIED BY TYPE FROM 0.5 MONTH'S TO 2.0 MONTHS' SUPPLY. THE INVENTORY OF BARE URANIUM CORES VARIED UPWARD BY TYPE FROM 0.3 MONTH'S SUPPLY. THE INVENTORY OF CAPS AND CANS ON HAND AVERAGED ABOUT 3.5 MONTHS' SUPPLY.

AUTOCLOVE FAILURES - ONE NORMAL-URANIUM I&E PIECE FAILED DURING AUTOCLOVE TESTING. THE FAILURE RESULTED FROM A PIN HOLE IN THE WELD BEAD.

SCRAP SHIPMENTS - NO SCRAP SHIPMENTS WERE MADE DURING JANUARY.

REACTOR OPERATION

DURING JANUARY, REACTOR PRODUCTION RATES IN TERMS OF INDEX ^{2/} WERE:

	<u>B</u>	<u>C</u>	<u>D</u>	<u>DR</u>	<u>F</u>	<u>H</u>	<u>KE</u>	<u>KW</u>	<u>TOTAL</u>
MAXIMUM POWER LEVEL DURING MONTH (INCLUDES ALL PRODUCTION)	84.2	104.0	85.5	84.0	90.8	91.2	186.5	190.5	916.7
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	77.0	87.1	79.8	77.8	81.2	84.2	177.4	175.4	839.9
TIME-OPERATED EFFICIENCY	81.7	79.9	74.4	88.9	79.1	82.4	85.3	85.7	82.2

IN-REACTOR PRODUCTION, WHICH WAS 107.7% OF FORECAST ^{1/}, ESTABLISHED A NEW MONTHLY PRODUCTION RECORD. THIS GREATER-THAN-FORECAST PRODUCTION WAS MADE POSSIBLE BY GREATER-THAN-EXPECTED TIME-OPERATED EFFICIENCIES AT THE K REACTORS AND BY HIGH AVERAGE POWER LEVELS AT ALL REACTORS. THE OVER-ALL AVERAGE TIME-OPERATED EFFICIENCY WAS 82.2% AS COMPARED WITH 81.2% FORECAST. THE OVER-ALL REACTOR PRODUCTION EFFICIENCY ^{2/} WAS 82.9%. NEW MAXIMUM POWER LEVEL RECORDS WERE ESTABLISHED AT B, C, F, H, KE, AND KW REACTORS. A NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORD WAS ESTABLISHED AT KE. AT THE END OF THE MONTH, EQUILIBRIUM POWER LEVELS WERE LIMITED BY RUPTURE CONTROL CONSIDERATION.

DURING JANUARY THERE WERE 15 FUEL ELEMENT FAILURES. THESE WERE ALL NORMAL URANIUM AND INCLUDED 1 SOLID AND 14 I&E PIECES. SIX OF THE RUPTURED FUEL ELEMENTS WERE STUCK AND ONE CAUSED A PROCESS TUBE LEAK. THIS BRINGS THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS TO 1,142, INVOLVING 1,162 PIECES (INCLUDING 85 I&E PIECES). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS REMAINS AT 65, INVOLVING 67 PIECES.

^{1/} "SECRET" DOCUMENT HW-63547 (HAN-74442) MACCREADY/TRAVIS, DATED JANUARY 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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DOCUMENT NO. HAN-74585-*del*PLANT OPERATIONS (CONT'D)REACTOR OPERATION (CONT'D)

FOLLOWING IS A SUMMARY OF JANUARY REACTOR OUTAGES:

<u>DATE</u> <u>DOWN</u>	<u>DATE</u> <u>UP</u>	<u>OUTAGE</u> <u>HOURS</u>	<u>REMARKS</u>
<u>B REACTOR:</u>			
12-30	1-1	42.6	REMOVAL OF A STUCK I&E 94-METAL, PRODUCTION TEST RUPTURE FROM TUBE 1764. PERFORMED MISCELLANEOUS MAINTENANCE.
1-10	1-11	35.8	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 3268 AND CHARGE-DISCHARGE.
1-21	1-24	74.0	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 1686, CHARGE-DISCHARGE, AND VENTURI INSTALLATION.
1-24	1-25	19.8	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2676. COMPLETED MISCELLANEOUS MAINTENANCE.
1-31	STILL DOWN		REMOVAL OF AN I&E REGULAR-METAL RUPTURE FROM TUBE 1575. PERFORMED MISCELLANEOUS MAINTENANCE.
<u>C REACTOR:</u>			
1-3	1-4	33.7	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2168. COMPLETED MISCELLANEOUS MAINTENANCE.
1-14	1-16	40.6	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2171. THERMO-
1-21	1-23	37.4	COUPLES WERE INSTALLED ON VERTICAL ROWS 51 THROUGH 57.
1-24	1-26	38.1	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2576 AND CHARGE-DISCHARGE.
			REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 3861 ^{1/} AND CHARGE-DISCHARGE.
<u>D REACTOR:</u>			
1-4	1-9	117.9	COMPLETED SCHEDULED CHARGE-DISCHARGE AND TUBE REPLACEMENT.
1-9	1-9	1.9	VENTURI CHANGE IN TUBES 1991 AND 2491.
1-25	1-27	52.3	REMOVAL OF PUMP SHAFT FRAGMENTS (FROM NO.7 PUMP AT 190 BUILDING) FROM CROSSHEADER SCREENS AND FRONT FACE FITTINGS. COMPLETED CHARGE-DISCHARGE.
1-31	STILL DOWN		TEMPERATURE CONTROL DUE TO A FAULTY BALL VALVE ON POISON COLUMN CONTROL FACILITY TUBE.
<u>DR REACTOR:</u>			
1-10	1-11	37.3	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 1570. COMPLETED CHARGE-DISCHARGE AND MAINTENANCE.
1-21	1-22	44.9	LEAK TESTING. TUBE 2185 WAS REPLACED.
1-24	1-24	0.3	PANELLIT TRIP.
1-24	1-24	0.2	PANELLIT TRIP.
<u>F REACTOR:</u>			
1-4	1-9	115.3	CORRECTION OF WATER LEAK. CHARGE-DISCHARGE AND TUBE REPLACEMENT WERE PERFORMED. INSTALLATION OF CROSSHEADER DIFFERENTIAL PRESSURE GAUGES.
1-23	1-25	39.1	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 1182 AND CHARGE-DISCHARGE.
1-25	1-25	1.4	MANUALLY TRIPPED DUE TO INSUFFICIENT RODS FOR CONTROL.
<u>H REACTOR:</u>			
1-9	1-10	32.7	CHARGE-DISCHARGE, FOLLOWING MAINTENANCE ON FRONT FACE CAP. RE-
1-20	1-22	52.7	PLACED TEN LEAKING REAR PIGTAILS.
1-23	1-23	3.8	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2981.
1-23	1-23	0.7	CHARGE-DISCHARGE AND TUBE REPLACEMENT WERE PERFORMED.
1-26	1-28	40.5	ADJUSTMENT OF GAS COMPOSITION.
			PANELLIT TRIP.
			DOWN FOR LEAK TESTING AND REPLACEMENT OF TUBE 1960. REMOVED A STUCK I&E NORMAL-URANIUM UNCONFIRMED RUPTURE SUSPECT FROM TUBE 3183.
1-28	1-28	0.6	PANELLIT TRIP.

^{1/} INCORRECTLY REPORTED AS TUBE 2676 IN THE WEEKLY REPORT.

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DATE DOWN	DATE UP	OUTAGE HOURS
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REMARKSKE REACTOR:

1-11	1-13	44.9	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 4345. PERFORMED CHARGE-DISCHARGE AND TUBE REPLACEMENT.
1-13	1-13	6.0	POISON DISCHARGE. A DELAY OF ABOUT 2.5 HOURS WAS EXPERIENCED DUE TO THE MALFUNCTION OF A "C" ELEVATOR RELAY.
1-25	1-27	46.9	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2052. CHARGE-DISCHARGE.
1-27	1-27	0.9	BECKMAN TRIP DUE TO A SURGE ON INSTRUMENT POWER SUPPLY.
1-27	1-28	3.3	POISON DISCHARGE.
1-31	STILL DOWN		TRIP DUE TO A FAULTY DUMP VALVE ON KER LOOP NO. 2.

KW REACTOR:

1-4	1-5	38.9	PANELLIT TRIP DUE TO AN I&E NORMAL-URANIUM RUPTURE IN TUBE 3075 AND CHARGE-DISCHARGE.
1-6	1-6	2.9	POISON DISCHARGE.
1-22	1-24	40.1	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 3866 AND CHARGE-DISCHARGE.
1-25	1-25	4.4	POISON DISCHARGE.

FUEL ELEMENT FAILURES - FOLLOWING IS A SUMMARY OF JANUARY FUEL ELEMENT FAILURES:

TABULATION OF RUPTURED URANIUM SLUGS							
TUBE NO.	DATE RUPTURED	TUBE POWER	CONCENTRATION (MWD/T)	ASSIGNED LOSS		METAL	TYPE FAILURE
				MWD	DAYS		
(NORMAL)							
2168-C	1-3	955	361	1973	1.13	I&E	HOT SPOT.
3075-KW	1-4	1318	512	2383	0.68	I&E	HOT SPOT.
3268-B	1-10	1176	563	630	0.41	I&E	HOT SPOT.
1570-DR	1-10	1062	564	1078	0.69	I&E	HOT SPOT.
4345-KE	1-11	1018	651	4906	1.38	SOLID	NOT DETERMINED.
2171-C	1-14	1160	446	1661	0.95	I&E	HOT SPOT.
2981-H	1-20	1095	552	915	0.54	I&E	HOT SPOT.
1686-B	1-21	1115	709	3024	1.96	I&E	HOT SPOT.
2576-C	1-21	1235	498	1987	1.14	I&E	HOT SPOT.
3866-KW	1-22	1507	424	4022	1.15	I&E	HOT SPOT.
1182-F	1-23	1176	558	1293	0.80	I&E	SIDE OTHER.
2676-B	1-24	1109	365	1683	1.09	I&E	HOT SPOT.
3861-C	1-24	1225	545	2453	1.41	I&E	NOT DETERMINED.
2052-KE	1-25	1316	537	3497	0.99	I&E	HOT SPOT.
1575-B	1-31	1197	417	821	0.53	I&E	HOT SPOT.

TUBE REPLACEMENT - DURING JANUARY, 105 PROCESS TUBES WERE REPLACED; 67 AT D, 19 AT H, 14 AT F, 2 AT B, AND 1 EACH AT C, DR, AND KE REACTORS. ALSO THERE WERE 5 PROCESS TUBE LEAKS AND 2 VAN STONE LEAKS CORRECTED.

POISON SPLINE STARTUPS - BOTH D AND KE REACTORS USED POISON SPLINES FOR STARTUPS DURING JANUARY. FORTY SPLINES WERE SUCCESSFULLY USED AT D REACTOR AND 35 AT KE REACTOR, WITH AN ESTIMATED GAIN OF 5 EFFECTIVE HOURS PER STARTUP.

A SPLINE COILER, TO REPLACE THE TROUBLESOME SPLINE CHOPPERS, HAS BEEN BUILT AND TESTED IN THE LABORATORY. THIS DEVICE WITHDRAWS THE SPLINE FROM THE PROCESS TUBE AND COILS IT UP ON A SMALL REEL INSIDE A SHIELDED CONTAINER THEN DROPS REEL AND CONTAINER INTO A DISPOSAL CHUTE. IT IS PLANNED TO USE POISON SPLINES FOR STARTUP AT KW REACTOR AGAIN AS SOON AS THE SPLINE COILER IS OPERATIONAL.

CAP REMOVER PROTOTYPE - THE CAP REMOVER PROTOTYPE HAS BEEN ASSEMBLED, MOUNTED ON A TEMPORARY CARRIAGE IN 108-D BUILDING, CONNECTED TO A PROGRAM SIMULATOR, AND OPERATED FUNCTIONALLY. WORK IS CONTINUING TO REMOVE MINOR BUGS, BUT THE ASSEMBLY NOW PERFORMS THE INTENDED FUNCTION OF REMOVING THE CAP AND REPLACING IT.

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PLANT OPERATIONS (CONT'D)

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 141.6% OF FORECAST ^{1/} WITH 87.5% OF THE TOTAL PRODUCED BY PUREX AND 12.5% BY REDOX.

PUREX - THE PLANT OPERATED CONTINUOUSLY THROUGHOUT JANUARY AND PROCESSED 601 TONS OF NORMAL URANIUM. SUBNORMAL DECONTAMINATION WAS EXPERIENCED ACROSS THE FIRST DECONTAMINATION CYCLE IN THE FIRST PART OF THE MONTH. TOWARDS THE LATTER PART OF THE MONTH, HA COLUMN OPERATION BECAME ERRATIC, INCREASING HAW WASTE LOSSES AND FISSION PRODUCT ACTIVITY IN PRODUCT STREAMS. HOWEVER, BOTH PRODUCTS WERE WITHIN SPECIFICATIONS AFTER SILICA-GEL AND ANION-EXCHANGE PROCESSINGS.

THE PUREX SILICA-GEL FACILITY PROCESSED 511 TONS OF URANIUM, WHILE ABOUT 90 TONS OF PUREX PRODUCT WAS PROCESSED THROUGH THE REDOX SILICA-GEL FACILITY.

ON JANUARY 30, PROCESSING OF VIRGIN FEED WAS DISCONTINUED TO ALLOW TOTAL REWORK OF OUT-OF-SPECIFICATION MATERIAL. APPROXIMATELY 90 TONS OF OUT-OF-SPECIFICATION URANIUM PRODUCED IN DECEMBER WAS REWORKED AT THIS TIME.

WASTE LOSSES FOR THE MONTH TOTALLED 0.35% OF THE PLUTONIUM THROUGHPUT AND 0.09% OF THE URANIUM THROUGHPUT.

THE ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE AVERAGED 0.73 CURIES PER DAY FOR THE MONTH. A MONTHLY TOTAL OF 22.6 CURIES WITH A DAILY MAXIMUM OF 1.7 CURIES WAS MEASURED.

REDOX - DURING JANUARY, THE PLANT PROCESSED 12.6 TONS OF NORMAL URANIUM AND 71.7 TONS OF 94 METAL. THE NORMAL URANIUM WAS THAT WHICH REMAINED IN THE SYSTEM FROM DECEMBER DISSOLVER CHARGINGS. PROCESSING OF THIS MATERIAL WAS COMPLETED ON JANUARY 4 AND COLUMN FLUSHING FOLLOWED.

DISSOLVING OF 94 METAL WAS BEGUN ON DECEMBER 30, AND THIS MATERIAL REACHED THE COLUMNS ON JANUARY 6. PROCESSING OF 94 METAL CONTINUED ON THE SCHEDULED FIVE-DAY-PER-WEEK BASIS UNTIL THE END OF THE MONTH.

THE ACCUMULATION OF NEPTUNIUM CONTINUED THROUGHOUT THE MONTH ON THE SAME BASIC INTERNAL RECYCLE FLOWSHEET USED PREVIOUSLY. AT MONTH'S END, THE TOTAL NEPTUNIUM ACCUMULATION IN THE PLANT WAS APPROXIMATELY 450 GRAMS WITH NO SIGNS OF APPROACH TO AN EQUILIBRIUM LOSS.

THE QUALITY OF BOTH PRODUCT STREAMS WAS MAINTAINED WITHIN SPECIFICATIONS THROUGHOUT THE MONTH, ALTHOUGH IRON CONTENT IN THE PU SOLUTIONS AGAIN SHOWED AN INCREASE WITH 94 METAL PROCESSING. THIS INCREASE IS PROBABLY CAUSED BY LONGER RESIDENCE IN THE PROCESS VESSELS WHICH RESULTS FROM THE LOWER PROCESSING RATE FOR 94 METAL.

THE AVERAGE WASTE LOSSES FOR BOTH PRODUCT STREAMS WERE KEPT UNDER GOOD CONTROL, BEING 0.18% FOR PLUTONIUM AND 0.50% FOR URANIUM. THREE BATCHES OF D-9 WASTES WERE WORKED INTO THE HEAD-END BATCH MAKE-UPS FOR REWORK, DUE TO HIGH NEPTUNIUM CONTENT. THE 1S COLUMN WAS UTILIZED TO RE-PROCESS THE HIGH SALT WASTE BATCHES AND PRODUCT BEARING SUMP WASTES. BY TAKING ADVANTAGE OF SODIUM DICHROMATE IN RECYCLED SALT WASTE, THE AMOUNT OF SODIUM DICHROMATE ADDED IN THE FEED OXIDATION PROCEDURE WAS REDUCED FROM 129 TO 115 POUNDS PER TON OF URANIUM PROCESSED, WITH RESULTANT COST SAVINGS.

TOTAL IODINE EMISSION FROM THE STACK WAS 1.507 CURIES FOR A DAILY AVERAGE OF 0.0486 CURIES. THE DAILY MAXIMUM WAS 0.17 CURIES. CONSIDERABLE RADIOACTIVE FALLOUT RESULTED IN THE VICINITY OF THE 291S STACK ON JANUARY 6. THIS WAS DETECTED IMMEDIATELY FOLLOWING OPERATION OF THE DISSOLVER JETS ON STEAM WHILE REPAIRS WERE BEING MADE ON THE COOLING WATER SUPPLY SYSTEM TO THE AIR COMPRESSORS. THIS ESTABLISHES CONCLUSIVELY THAT MATERIAL DEPOSITED ON THE INSIDE OF THE DISSOLVER VENT LINES IS THE SOURCE OF RADIOACTIVE PARTICLES IN STACK EMISSION.

THE D-14 BACKCYCLE CONCENTRATOR PUMP WAS REPLACED ON JANUARY 9 DUE TO ERRATIC OPERATION AFTER 3,280 HOURS OF USE. THE REPLACEMENT PUMP WAS ONE THAT HAD UNDERGONE REPAIRS AT A COST OF \$1,594 AS COMPARED TO \$7,500 FOR A NEW PUMP. AT LEAST 50% OF NEW PUMP LIFE IS EXPECTED FROM THE REPAIRED PUMP.

UO₃ - UO₃ PRODUCTION FOR THE MONTH WAS 100.5% OF FORECAST FOR NORMAL URANIUM AND 105.2% OF FORECAST FOR 94 METAL. THIS AMOUNTS TO 402 TONS OF NORMAL URANIUM AND 49 TONS OF 94 METAL. ALL SHIPPING SCHEDULES WERE MET.

FOR EACH TON OF URANIUM PROCESSED, 1,032 POUNDS OF NITRIC ACID WAS RECOVERED AT AN AVERAGE CONCENTRATION OF 46% (98% OF THEORETICAL RECOVERY).

^{1/} "SECRET" DOCUMENT HW-63547 (HAN-74442) MACCREADY/TRAVIS, DATED JANUARY 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

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PLANT OPERATIONS (CONT'D)

DOCUMENT NO. HAN-74585-*Del*

RESEARCH AND DEVELOPMENT

NEPTUNIUM PROCESSING - ACCUMULATION OF NEPTUNIUM IN THE PROCESS AT PUREX AND REDOX CONTINUED DURING JANUARY, BUT NO NEPTUNIUM WAS SEPARATED AT EITHER PLANT.

TO DATE, 94 FUEL CORES HAVE BEEN CAST FOR MACHINING, ASSEMBLY, AND COEXTRUSION. THE BILLETS WERE CAST TO SIZE WITH ONE END FORMED TO THE CONFIGURATION REQUIRED FOR EXTRUSION IN ORDER TO ELIMINATE AS MUCH MACHINING AS POSSIBLE. FURTHER DEVELOPMENT IS IN PROGRESS IN ORDER TO ELIMINATE MACHINING COMPLETELY, CONCURRENTLY ELIMINATING MOST OF THE SCRAP.

THE CURRENT STATUS OF THESE 94 PIECES IS AS FOLLOWS: 33 CAST FUEL CORES; 16 MACHINED CORES; 16 ASSEMBLED COEXTRUSION BILLETS; AND 29 COEXTRUDED RODS.

GETR GRAPHITE IRRADIATIONS - THE H-1 EXPERIMENTAL TEST CAPSULE CONTAINING SAMPLES OF VARIOUS TYPES OF GRAPHITE WAS DISCHARGED FROM THE GETR ON DECEMBER 28. LENGTH MEASUREMENTS ON THE GRAPHITE SAMPLES INDICATED LENGTH DECREASES OF SEVERAL TENTHS OF ONE PER CENT.

EXPOSURE LEVELS ON THESE SAMPLES WERE TOO LOW TO GIVE ANY EVIDENCE OF SATURATION OR SLOWING DOWN OF THE RATE OF CONTRACTION. CONSISTENT WITH ALL OTHER TEST DATA TO DATE, THE GRAPHITE MADE FROM "NEEDLE" COKE CONTRACTED SOMEWHAT LESS THAN THE CSF REFERENCE GRAPHITE. IN ADDITION, THERE IS AN INDICATION THAT GRAPHITE MADE WITH FINER COKE PARTICLES AND EXPOSED TO HIGHER TEMPERATURES IN GRAPHITIZING FURNACES CONTRACTED AT A SLIGHTLY LOWER RATE THAN MORE CONVENTIONAL GRAPHITES. THERE SEEMS TO BE A SIGNIFICANT INCREASE IN CONTRACTION RATE ABOVE A TEMPERATURE OF ABOUT 1000°C.

PCTR - AN EXCELLENT DEMONSTRATION OF THE VERSATILITY OF THE PCTR WAS GIVEN THIS MONTH. THREE DISTINCTLY DIFFERENT TYPES OF EXPERIMENTS WERE DONE. (1) A CORE MADE UP OF SOLID GRAPHITE WAS USED TO STUDY THE EFFECT OF GRAPHITE TEMPERATURE ON NEUTRON TEMPERATURE. (2) A HOMOGENEOUS CORE OF UO_3 ENRICHED TO THREE PER CENT U-235 WAS USED TO DETERMINE THE AMOUNT OF HYDROGEN WHICH MUST BE ADDED TO ASSURE NO CRITICALITY PROBLEMS WITH THIS MATERIAL. (3) TUBE-IN-TUBE FUEL ELEMENTS IN A GRAPHITE LATTICE WERE USED TO DETERMINE REACTOR PHYSICS PROPERTIES OF A CORE SIMILAR TO THE NPR REACTOR CORE. DURING A PORTION OF THE MONTH, THE PCTR WAS RUN THREE SHIFTS PER DAY.

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Document No. HAN-74585-021

PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

CGI-791, REACTOR CONFINEMENT - The A. D. LITTLE COMPANY IS CLOSING OUT ITS TESTING OF MEDIA FOR REMOVAL OF HALOGENS AND IS PREPARING A FINAL REPORT. EQUIPMENT IS BEING INVENTORIED FOR POSSIBLE TRANSFER TO THE ARMY CHEMICAL CORPS FOR THEIR OWN WORK AND FOR WORK FOR OTHER GOVERNMENT AGENCIES. PRELIMINARY REPORTS ON THE A. D. LITTLE TESTING INDICATE THAT SILVER-COATED-COPPER FILTER MEDIUM IS UNSATISFACTORY, BUT ACTIVATED CHARCOAL IS SATISFACTORY.

NEW BIDS WERE REQUESTED ON HIGH EFFICIENCY FILTERS SINCE IRREGULARITIES IN THE ORIGINAL BIDS MADE IT IMPOSSIBLE TO MAKE AN AWARD. THREE NEW BIDS HAVE BEEN RECEIVED; BUT, FROM PRELIMINARY RESULTS OF PREQUALIFICATION TESTING, IT APPEARS THAT FILTERS FROM ONLY ONE VENDOR WILL MEET OUR SPECIFICATIONS. THE VENDORS HAVE GIVEN ASSURANCE THAT FILTERS CAN BE SUPPLIED IN TIME TO PHASE WITH OTHER PORTIONS OF THE WORK.

A DETAILED REVIEW OF THE SHIELDING PROBLEM IN THE 105-K EXHAUST FAN ROOMS HAS SHOWN THAT CONSIDERABLY MORE SHIELDING WILL BE REQUIRED THAN WAS ORIGINALLY ANTICIPATED. SHIELDING WILL BE EXTENSIVE ENOUGH TO REQUIRE STRUCTURAL REINFORCEMENT.

CAI-816, NEW PRODUCTION REACTOR - SCOPE DESIGN FOR THE REACTOR PLANT IS 99.3% COMPLETE WHILE THE SCOPE CRITERIA FOR THE HEAT DISSIPATION PLANT IS 81% COMPLETE.

AN IBM 709 CODE FOR TWO-PHASE (STEAM AND WATER) FLOW CALCULATIONS HAS BEEN PREPARED AND RESULTS OF CALCULATIONS FOR FLOW AND PRESSURE DROP HAVE BEEN FOUND TO COMPARE FAVORABLY WITH CRITICAL FLOW TESTS OVER A WIDE RANGE OF UPSTREAM PRESSURES.

ON THERMAL CYCLING TESTS IN THE COMPONENT TEST LOOP, TWO GRAYLOC COUPLINGS COMPLETED 1,000 CYCLES WITHOUT LEAKING. LEAKING IN A THIRD GRAYLOC COUPLING WAS TRACED TO DAMAGE DURING ASSEMBLY. TWO REDESIGNED MARMAN CONOSEALS COMPLETED 400 CYCLES WITHOUT LEAKING, BUT DIS-ASSEMBLY REVEALED SEAL BUCKLING OPPOSITE THE POINT OF TORQUE APPLICATION DURING ASSEMBLY.

IN HYDROSTATIC TESTS, A MARMAN CONOSEAL BEGAN LEAKING AT 11,500 PSI. A FLASH-WELD SECTION OF A SIMULATED CARBON-STEEL CONNECTOR RUPTURED AXIALLY AT 13,400 PSI WITH A THREE-INCH BRITTLE FRACTURE IN THE PARENT TUBING AND NOT AT THE FLASH WELD.

IN A FUEL RUPTURE TEST IN THE ETR, THE PROTOTYPE OF THE NPR RUPTURE DETECTION SYSTEM WORKED SATISFACTORILY TO GIVE AN EARLY INDICATION OF A RUPTURE.

MODIFICATIONS HAVE BEEN MADE TO THE HYDRAULIC SYSTEM OF THE PROTOTYPE HORIZONTAL CONTROL ROD DRIVE TO INCREASE ROD SPEED. STICKING AT LOW SPEEDS AND EFFECTS OF ACCELERATION AND DECELERATION ARE BEING STUDIED.

CGH-819, INCREASED LABORATORY WASTE FACILITIES - 300 AREA - A REVISED PROJECT PROPOSAL WAS RECEIVED, ACTED ON FAVORABLY LOCALLY, AND SENT TO WASHINGTON FOR APPROVAL.

CGC-854, CONVERSION OF PUREX PU ANION EXCHANGE UNIT - DETAILED DESIGN IS 95% COMPLETE. A SCOPE INCREASE TO REPLACE THE UNIT'S VENTILATION STACK IS BEING CONSIDERED. COST OF THE CHANGE IS ESTIMATED AT \$10,000.

CGH-864, SHIELDED ANIMAL MONITORING STATION - 100-F AREA - DRAWINGS AND SPECIFICATION MASTERS HAVE BEEN RECEIVED, AND A BID PACKAGE IS BEING PREPARED. THE MONITORING CELL IS BEING FABRICATED.

CGH-866, SHIELDED ANALYTICAL LABORATORY - TITLE I DESIGN IS COMPLETE. A PROJECT PROPOSAL REQUESTING TOTAL DESIGN FUNDS HAS BEEN ACTED UPON FAVORABLY LOCALLY AND WILL BE SENT TO WASHINGTON FOR APPROVAL.

CAH-870, FACILITIES FOR RECOVERY OF RADIOACTIVE CERIUM - 325 BUILDING - TITLE II DESIGN IS 88% COMPLETE AND SCHEDULED FOR COMPLETION IN MID-FEBRUARY.

CGC-873, FISSION PRODUCT LOAD-OUT FACILITY, PUREX - DETAILED DESIGN HAS BEEN COMPLETED.

CGH-877, PYROCHEMICAL TEST FACILITY - 321-A BUILDING - DETAILED DESIGN IS 25% COMPLETE. CRITICAL PROCUREMENT IS UNDER WAY WITH ORDERS PLACED FOR TWO INDUCTION HEATING UNITS.

CAC-881, EMERGENCY WATER SUPPLY - 241-A TANK FARM - A PROPOSAL HAS RECEIVED FAVORABLE LOCAL ACTION AND HAS BEEN FORWARDED TO THE WASHINGTON OFFICE FOR APPROVAL. THE PROPOSAL INCLUDES A REQUEST FOR A SYSTEM INCLUDING A COOLING TOWER, EMERGENCY POWER GENERATOR, AND A MAKE-UP WATER PUMP FOR AN EXISTING WELL.

AEC-175, NEW CENTRAL INDUSTRIAL FIRE STATION - THE BID PACKAGE WAS ISSUED JANUARY 5. BIDS ARE TO BE OPENED FEBRUARY 2.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION

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

PROJECT	PROJECT PROPOSAL NUMBER	MAJOR PROJECTS					PRESENT WORKING ESTIMATE (THOUSANDS)
		ACTUAL STARTING DATE	SCHED. COMPL. DATE	CONSTRUCTION		DESIGN % ACTUAL COMPL.	
				COMPLETION %	COMPLETION %		
PRTR	AEC-167	3-6-58	8-30-60	80	67	100	\$12,750
RMC BUTTON LINE, 234-5	CG-734	2-18-58	7-15-60	84	84	100	1,845
PU. FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	85	87	95	4,230
MET. DEV. FAC., 306							
BLDG. ADDITION	CA-744	3-20-59	9-1-60	44	44	100	2,685
REACTOR CONFINEMENT	CG-791	3-31-59	3-15-61	25	27	68	4,200 1/
306 BLDG. PILOT PLANT							
MODIFICATION	CG-810	1-29-59	3-15-60	87	87	100	755
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	61	67	100	1,000
ADD'L PU. FAB. FAC.							
234-5 BLDG.	CGC-811	8-24-59	7-1-61	12	6	91	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	0.4	0.3	38	145,000
NEW FUEL CLAD. FAC.	CAF-847	7-27-59	12-31-60	62	61	11 2/	1,000 2/

^{1/} PORTION OF \$6,000,000 CONFINEMENT PROGRAM.

^{2/} DESIGN AND ESTIMATE ARE BASED ON \$3,600,000 PROJECT.

CONTRACT AT(45-1)-1477, PROJECT AEC-167, PLUTONIUM RECYCLE TEST REACTOR, CUSTODIS CONSTRUCTION COMPANY

PHASE II - EXHAUST CHIMNEY - WINTRY WEATHER CAUSED THE CONTRACTOR TO DISCONTINUE WORK ON THIS CONTRACT.

CONTRACT AT(45-1)-1410, PROJECT AEC-167, PLUTONIUM RECYCLE TEST REACTOR, SHAW & ESTES

PHASE III - THE BIOLOGICAL SHIELD HELIUM LEAK TEST WAS COMPLETED.

PLACEMENT OF HEAVY AGGREGATES STARTED DURING THE LAST WEEK OF JANUARY.

WELD REPAIR AND RADIOGRAPHY OF LINER COOLING LINES WAS COMPLETED.

A MOCK-UP OF THE THERMAL SHIELD WAS CONSTRUCTED ON THE 0'-0" LEVEL.

CONTRACT AT(45-1)-1446, PROJECT CG-731, CRITICAL MASS LABORATORY, H. S. WRIGHT CONSTRUCTION CO. SURFACE PREPARATION WAS COMPLETED AND PAINTING WORK WAS STARTED IN THE REACTOR ROOM DURING THE WEEK, ENDING JANUARY 25, 1960.

THE REACTOR HOODS WERE SHIPPED ON JANUARY 18, 1960.

CONTRACT AT(45-1)-1440, PROJECT CA-744, METALLURGICAL DEVELOPMENT FACILITY, 306 BUILDING ADDITION, JENSEN-RASMUSSEN - THE LAST CONCRETE FLOOR SLAB WAS PLACED ON JANUARY 29, 1960.

CONTRACT AT(45-1)-687, PROJECT CA-747, PLUTONIUM FABRICATION PILOT PLANT, J. A. JONES - PARTS OF THE SINTERING FURNACE HAVE STILL NOT BEEN DELIVERED DUE TO A STRIKE AT THE VENDOR'S PLANT.

CONTRACT AT(45-1)-1481, PROJECT CG-789, ADDITIONAL FIRE PROTECTION, 234-5 BUILDING, NATIONAL AUTOMATIC SPRINKLER COMPANY - FIELD CONSTRUCTION WAS STARTED ON JANUARY 4, 1960.

PROJECT CGI-791, REACTOR CONFINEMENT

PHASE II-A, CONTRACT AT(45-1)-687, J. A. JONES - PLACEMENT OF THE CONCRETE AIR DUCTS IN KW AND KE IS COMPLETE.

PHASE II-B, CONTRACT AT(45-1)-1483, R. B. MILES - THE FIRST CONCRETE PLACEMENT ON THE FILTER BUILDING IN 100-F WAS MADE JANUARY 13, 1960. FORMING FOR THE SECOND PLACEMENT WAS STARTED ON JANUARY 21, 1960.

THE FIRST CONCRETE PLACEMENT IN 100-H WAS MADE ON JANUARY 25, 1960.

WORK IN 100-B AND 100-C AREAS IS BEING RETARDED BY THE WINTRY WEATHER.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

PROJECT CGC-811, ADDITIONAL FABRICATION FACILITIES, 234-5 BUILDING

CONTRACT AT(45-1)-1491, W. G. CLARK - THE CONTRACTOR STARTED WORK ON JANUARY 8, 1960.

CONTRACT AT(45-1)-687, J. A. JONES - ERECTION OF THE HC-36 AND 37 CONVEYER HOOD FRAMES IS ESSENTIALLY COMPLETE.

CONTRACT AT(45-1)-1455, PROJECT CAI-816, NEW PRODUCTION REACTOR, KAISER ENGINEERS - WINTRY WEATHER VIRTUALLY STOPPED FIELD CONSTRUCTION EXCEPT EXCAVATION WORK FOR THE 181 BUILDING, WHICH IS CONTINUING ON TWO SHIFTS PER DAY, SIX DAYS A WEEK BASIS.

IN ADDITION TO THE SUBCONTRACT WORK UNDER WAY, KAISER ENGINEERS FORCES HAVE STARTED THE REHABILITATION WORK ON THE GRAPHITE MACHINING EQUIPMENT IN THE 2101 BUILDING AND THE TUBE PROCESSING EQUIPMENT IN THE TUBE SHOP.

CONTRACT ACTIONS BY KAISER ENGINEERS:

SC-12, STORAGE FACILITY BUILDING, 1734-N, WAS AWARDED JANUARY 7, 1960, TO BOB'S WOODWORKING FOR \$30,680.

SC-13, MODIFICATION TO TUBE SHOP, 2101 BUILDING, WAS AWARDED JANUARY 14, 1960, TO KEN CROSS IN THE AMOUNT OF \$43,280.

BIDS FOR FURNISHING AND ERECTING THE STANDBY BOILER WERE OPENED ON JANUARY 20, WITH ENGINEERING REVIEW NOW UNDER WAY BY THE ARCHITECT-ENGINEER.

KAISER SUBCONTRACTING SUMMARY, TO DATE: THIRTEEN SUBCONTRACTS AWARDED FOR A VALUE OF \$1,907,099; SIX SUBCONTRACTS OUT FOR BID FOR AN ESTIMATED VALUE OF \$6,496,100.

PROCUREMENT ACTIONS:

FOUR HUNDRED AND EIGHTY-FIVE PURCHASE ORDERS HAVE BEEN PLACED TO DATE, FOR A VALUE OF \$9,934,044.

NINETY-NINE PURCHASE ORDERS WERE PLACED DURING JANUARY FOR A VALUE OF \$51,628.

THIRTY REQUISITIONS ARE OUT FOR BID FOR AN ESTIMATED VALUE OF \$14,151,400.

FOUR PURCHASE ORDERS ARE IN PROCESS OF REVIEW FOR A VALUE OF \$192,688.

GRAPHITE:

THE GREEN GRAPHITE IN THE TWO ORDERS FOR REFLECTOR MATERIAL HAS BEEN EXTRUDED BY NATIONAL CARBON COMPANY AND GREAT LAKES CARBON COMPANY. FIRST DELIVERY IS EXPECTED ABOUT APRIL 1, 1960.

ZIRCONIUM TUBES:

ONE TUBE WAS DELIVERED DURING THE MONTH BY HARVEY ALUMINUM COMPANY. HOWEVER, 14 TUBES WERE MANUFACTURED BY CHASE BRASS, 14 TUBES BY ALLEGHENY LUDLUM, AND 13 TUBES BY HARVEY ALUMINUM COMPANY.

CONTRACTS

ONE CONTRACT WAS AWARDED BY THE AEC DURING THE MONTH OF JANUARY.

CONTRACT AT(45-1)-1495 WAS AWARDED TO TRIANGLE CONSTRUCTION COMPANY IN THE AMOUNT OF \$14,279 FOR THE CONSTRUCTION OF WASTE CRIB NO. 216-U-12 AND RELATED WORK.

PROCUREMENT

THE ATOMIC ENERGY COMMISSION APPROVED 26 AWARDS MADE BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$844,291.26.

INCLUDED IN THE 26 AWARDS WERE THE FOLLOWING:

AN AWARD TO THE WHITLOCK MANUFACTURING COMPANY, HARTFORD, CONNECTICUT, FOR FOUR HEAT EXCHANGERS (PROJECT CGI-839) IN THE AMOUNT OF \$61,160.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PROCUREMENT (CONT'D)

AN ORDER WITH PENBERTHY INSTRUMENT COMPANY, SEATTLE, WASHINGTON, FOR THE PURCHASE OF LEAD GLASS IN THE AMOUNT OF \$95,345 (PROJECT CG-734).

THE ATOMIC ENERGY COMMISSION PLACED 386 PURCHASE ORDERS FOR THE TOTAL AMOUNT OF \$226,486.70.

NPR INFORMATION CENTER

HANFORD'S NPR INFORMATION CENTER HAS BEEN COMPLETED. REACTOR MODEL AND OTHER MATERIAL ARE NOW ON DISPLAY, AND DOCUMENTS AND MICROFILMS OF DRAWINGS AND SPECIFICATIONS ARE AVAILABLE FOR STUDY.

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AIR MAIL

FEB

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 _____.
The "Secret" portion, Part I, is forwarded as a separate
report.

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

JANUARY 1960

PART II

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[REDACTED]

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

JANUARY 1960

PART II

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COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR JANUARY 1960:

	<u>JANUARY 1</u>	<u>JANUARY 31</u>
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	24	9
1. TOTAL HOUSES OCCUPIED	15	4
2. TOTAL HOUSES UNOCCUPIED	9	5
(A TOTAL OF 3,787 SINGLE HOUSES AND 1,014 DUPLEXES SOLD - 5,815 UNITS.)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	133	133
2. TOTAL APARTMENTS UNOCCUPIED	1	1
C. THREE DORMITORIES ARE NOW IN OPERATION BY A COMMERCIAL OPERATOR.		

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	146	118	396	83	743
VACANT	134	102	4	17	257

DISPOSAL:

HHFA REPORTED 172 UNSOLD PROPERTIES AS OF JANUARY 1, 1960. THESE CONSISTED OF TWO SINGLE HOUSES, 11 DUPLEXES, 51 RESIDENTIAL LOTS, ONE TITLE VIII PROPERTY, 25 COMMERCIALS IN GOVERNMENT BUILDINGS, 60 COMMERCIALS WITH PRIVATE BUILDINGS, 17 APARTMENTS, ONE DORMITORY PROPERTY, AND FOUR NON-PROFITS. HHFA'S REPORT TO WASHINGTON SHOWS \$30,075,372.68 SALES AS OF DECEMBER 31, 1959.

TEN COMMERCIALS AND TWO NON-COMMERCIAL PROPERTIES WERE CERTIFIED TO HHFA.

HHFA ADVERTISED TWELVE UPTOWN AND ONE DOWNTOWN COMMERCIAL OFFERED TO THE LESSEES ON JANUARY 18, 1960.

HHFA OPENED BIDS ON 106 PARCELS AND RECEIVED 17 ACCEPTABLE BIDS ON 28 PROPERTIES ON JANUARY 20, 1960.

THE LAST TWO UNSOLD HOUSES WERE ADVERTISED BY HHFA - THE "H" HOUSE WHICH HAD BEEN OCCUPIED BY MISS OZEROFF AND AN "A" DUPLEX.

PRIORITY CERTIFICATES ON 11 OF THE 12 COMMERCIAL PROPERTIES OFFERED ON DECEMBER 18, 1959 WERE APPROVED.

BIDS WERE OPENED ON DORMITORIES W-15, 16 AND 21 BY GENERAL ELECTRIC. ALL THREE BUILDINGS WERE SOLD FOR REMOVAL FROM THE PREMISES.

A DEPUTY U. S. MARSHALL FROM SPOKANE ARRIVED IN RICHLAND ON JANUARY 21 AND REQUIRED MARY OZEROFF TO MOVE FROM HER HOUSE UNDER A WRIT OF RESTITUTION. MISS OZEROFF COMPLETELY VACATED THE PROPERTY ON JANUARY 22.

THE BENTON COUNTY PORT DISTRICT HELD A HEARING ON ITS COMPREHENSIVE PLAN AT PROSSER ON JANUARY 6. THE PLAN INCLUDES DEVELOPMENT OF A 40-ACRE PARCEL NORTH OF THE AEC AIRPORT.

APPRAISERS FROM THE FHA WASHINGTON HEADQUARTERS SPENT SEVERAL DAYS IN RICHLAND COMPLETING CLEAN-UP APPRAISALS.

A STATEMENT OF BENTON COUNTY TAXES FOR 1960 WAS RECEIVED FROM THE COUNTY ASSESSOR SHOWING RICHLAND HAS \$12,433,004 ASSESSED VALUATION, AND WILL GET \$186,494.71 IN TAXES. THE SCHOOL DISTRICT VALUATION IS \$13,809,408 WITH \$193,332.11 IN TAXES.

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COMMUNITY OPERATIONS (CONT'D)

DISPOSAL (CONT'D):

THE REPORT OF SALES FOR THE MONTH ENDING JANUARY 31, 1960 IS AS FOLLOWS:

	<u>TOTAL</u> <u>INVENTORY</u>	<u>SALES CLOSED</u> <u>PAST MONTH</u>	<u>TOTAL</u>	<u>UNSOLD</u>	<u>GOOD FAITH</u> <u>DEPOSITS</u>
<u>PRIORITY PROPERTIES</u>					
SINGLE HOUSES	3,788	1	3,787	1	0
DUPLEX HOUSES	1,018	7	1,014	4	3
COMMERCIALS	127	2	44	83	12
CHURCHES	6	0	6	0	0
NON-PROFIT	7	0	3	4	0
RESIDENTIAL LOTS	97	0	97	0	0
DORMITORY SITES	1	0	0	1	0
WHERRY SITES	1	0	0	1	0
<u>BID PROPERTIES</u>					
APARTMENTS	17	0	0	17	0
RESIDENTIAL LOTS	108	2	59	49	0
RESIDENTIAL TRACTS	87	7	61	26	3
COMMERCIALS	24	0	5	19	0
INDUSTRIALS	40	1	19	21	0
FLOOD PLAINS	39	0	32	7	0
	5,360	20	5,127	233	18

MUNICIPAL

A CHECK IN THE AMOUNT OF \$74,000 WAS TRANSMITTED TO THE CITY OF RICHLAND FOR JANUARY OPERATION. PAYROLL ESTIMATES ON WHICH THIS AMOUNT WAS BASED INDICATED ANNUAL PAYMENT OF \$1,330,000, WHICH IS \$190,000 LESS THAN THE CITY'S BUDGET INDICATED.

REAL ESTATE

A CHECK OF THE FIGURES ON SETTLEMENT OF CIVIL CASE NO. 554, UNITED STATES DISTRICT COURT, INDICATES 4,750.97 ACRES OF LAND AND 2,759.1 LINEAL CHAINS OF SHORELANDS ON WAHLUKE SLOPE WERE ACQUIRED FROM THE STATE. THE CASE WAS SETTLED FOR \$205,813 ON DECEMBER 4, 1959, WHICH AVERAGED ABOUT \$40.75 PER ACRE AND ABOUT \$4.45 PER LINEAL CHAIN.

PERSONNEL (ON-SITE)

	<u>JANUARY 1</u>	<u>JANUARY 31</u>
ATOMIC ENERGY COMMISSION	279	281
GENERAL ELECTRIC COMPANY	7,803	7,778
TOTAL CONSTRUCTION PERSONNEL	849	908
TOTAL PROJECT PERSONNEL	8,931	8,967

LABOR RELATIONS

PIPE FITTERS RETURNED TO WORK FRIDAY, JANUARY 8, 1960, AFTER BEING OFF SINCE DECEMBER 9, 1959, IN DISPUTE OVER ASSIGNMENT OF EXHAUST DUCT WORK TO SHEET METAL WORKERS.

END

**DATE
FILMED
9/01/92**