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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
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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

FEBRUARY 1960

PART I

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MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

FEBRUARY 1960

PART I

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HIGHLIGHT STATEMENT - FEBRUARY 1960

OPERATIONS

CANNED FUEL ELEMENT PRODUCTION TOTALLED 614 TONS, 100.2% OF FORECAST. THE TOTAL CONSISTED OF 59 TONS OF SOLID AND 466 TONS OF I&E NORMAL URANIUM AND 89 TONS OF I&E 94 METAL. YIELDS WERE 92.4% FOR SOLID AND 85.7% FOR I&E NORMAL-URANIUM AND 82.8% FOR 94-METAL PIECES.

IN-REACTOR PRODUCTION TOTALLED 100.7% OF FORECAST. THE OVER-ALL AVERAGE TIME-OPERATED EFFICIENCY WAS 76.5%. NEW MAXIMUM POWER LEVEL RECORDS WERE ESTABLISHED AT SEVEN REACTORS: B, D, DR, F, H, KE, AND KW. DURING THE MONTH THERE WERE 22 FUEL ELEMENT FAILURES. OF THESE, 17 WERE I&E NORMAL URANIUM, 3 WERE SOLID NORMAL URANIUM, 1 WAS I&E 94 METAL, AND 1 WAS A 160 METAL 7-ROD CLUSTER FROM KER LOOP 1.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 86.7% OF FORECAST WITH 91.1% OF THE TOTAL PRODUCED BY PUREX AND 8.9% BY REDOX.

PRODUCTION OF NORMAL UD_3 TOTALLED 505 TONS, 125.1% OF FORECAST. ALL SHIPPING SCHEDULES WERE MET. NO 94 METAL UD_3 WAS SCHEDULED FOR SHIPMENT.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - DESIGN IS 41% COMPLETE AND CONSTRUCTION IS 0.5% COMPLETE VS. 0.7% SCHEDULED. THE FEDERAL POWER COMMISSION COMPLETED THE NPR POWER FEASIBILITY STUDY. (SEE PART I, PAGES 10 AND 12.)

REACTOR CONFINEMENT - DESIGN IS 78% COMPLETE AND CONSTRUCTION IS 31% COMPLETE VS. 31% SCHEDULED. (SEE PART I, PAGE 11.)

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 75% COMPLETE VS. 87% SCHEDULED. (SEE PART I, PAGE 11.)

PFPP - DESIGN IS 95% COMPLETE AND CONSTRUCTION IS 87% COMPLETE VS. 85% SCHEDULED. (SEE PART I, PAGE 11.)

COMMUNITY

PROPERTY DISPOSAL - A TOTAL OF 5,137 OF 5,361 SALE PROPERTIES HAS BEEN SOLD AND AN ADDITIONAL 33 GOOD FAITH DEPOSITS PLACED.

PLANT OPERATIONSMETAL PREPARATION

CANNING - NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALLED 614 TONS, 100.2% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM			
SOLID	59 TONS	92.4% YIELD	
1&E	466 "	85.7% "	
94 METAL - 1&E	89 "	82.8% "	

THE 466 TONS OF NORMAL-URANIUM 1&E PIECES INCLUDED 19 TONS OF WATER MIXING ELEMENTS. THERE WERE 5,300 ACCEPTABLE PB-CD POISON PIECES CANNED DURING THE MONTH. FIVE CANNING LINES WERE OPERATED ON EACH OF TWO SHIFTS ON A FIVE-DAY-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 92.5%.

AT MONTH END, THE TOTAL INVENTORY OF CANNED FUEL ELEMENTS WAS APPROXIMATELY 587 TONS AND VARIED BY TYPE FROM 0.3 MONTH'S TO 3.0 MONTHS' SUPPLY. THE INVENTORY OF BARE URANIUM CORES VARIED BY TYPE FROM 1.1 MONTHS' TO 2.9 MONTHS' SUPPLY. THE INVENTORY OF CAPS AND CANS ON HAND AVERAGED ABOUT 3.5 MONTHS' SUPPLY.

AUTOCRAVE FAILURES - THERE WERE NO FUEL ELEMENT FAILURES DURING AUTOCLAVING IN FEBRUARY.

SCRAP SHIPMENTS - TWO SCRAP SHIPMENTS WERE MADE TO FERNALD DURING FEBRUARY. THESE INCLUDED A TOTAL OF 79 TONS OF NORMAL URANIUM AND 3.7 TONS OF 94 METAL.

REACTOR OPERATION

DURING FEBRUARY, 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)	86.5	103.5	88.2	89.0	91.3	94.5	190.0	192.0	935.0
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	79.7	89.0	81.9	76.7	84.9	85.4	168.6	179.9	846.2
TIME-OPERATED EFFICIENCY	74.8	73.0	86.7	69.2	68.8	79.1	78.3	82.5	76.5

IN-REACTOR PRODUCTION WAS 100.7% OF FORECAST ^{1/}. THE OVER-ALL AVERAGE TIME-OPERATED EFFICIENCY WAS 76.5% AS COMPARED WITH 81.8% FORECAST. THE TIME-OPERATED EFFICIENCY WAS LOW BECAUSE OF THE LARGER NUMBER OF RUPTURES AND BECAUSE OF THE GREATER-THAN-EXPECTED OUTAGE TIME REQUIRED FOR WATER LEAK CORRECTIONS AND PRODUCTION TESTS. THE OVER-ALL REACTOR PRODUCTION EFFICIENCY ^{3/} WAS 77.4%. NEW MAXIMUM POWER LEVEL RECORDS WERE ESTABLISHED AT SEVEN REACTORS: B, D, DR, F, H, KE, AND KW. AT THE END OF THE MONTH, EQUILIBRIUM POWER LEVELS WERE LIMITED BY RUPTURE CONTROL CONSIDERATIONS.

DURING FEBRUARY, THERE WERE 22 FUEL ELEMENT FAILURES. THESE INCLUDED 20 NORMAL-URANIUM PIECES (3 SOLID AND 17 1&E), ONE 94-METAL PIECE (1&E), AND ONE 160-METAL PIECE (7-ROD CLUSTER IN KER LOOP 1). THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,162, INVOLVING 1,182 PIECES (INCLUDING 102 1&E PIECES). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 66, INVOLVING 68 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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PLANT OPERATIONS (CONT'D)REACTOR OPERATION (CONT'D)

FOLLOWING IS A SUMMARY OF FEBRUARY REACTOR OUTAGES:

<u>DATE DOWN</u>	<u>DATE UP</u>	<u>OUTAGE HOURS</u>	<u>REMARKS</u>
<u>B REACTOR:</u>			
1-31	2-2	38.8	CONCLUDED RUPTURE REMOVAL. PERFORMED MISCELLANEOUS MAINTENANCE.
2-2	2-2	3.1	INVESTIGATED THE HIGH-EXIT WATER TEMPERATURE ON TUBE 1564.
2-9	2-11	40.1	PANELLIT TRIP AND CHARGE-DISCHARGE.
2-11	2-11	21.6	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 3880.
2-26	2-29	73.9	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 3284. PERFORMED CHARGE-DISCHARGE.
<u>C REACTOR:</u>			
2-4	2-5	39.9	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2875. SEVEN ZIRCONIUM TUBES WERE INSTALLED.
2-6	2-7	29.2	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2276.
2-7	2-7	4.0	POISON DISCHARGE.
2-10	2-12	63.5	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 1478. PERFORMED CHARGE-DISCHARGE.
2-13	2-13	3.1	POISON DISCHARGE.
2-14	2-15	28.5	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 0765. PERFORMED TUBE REPLACEMENT.
2-15	2-15	0.9	PANELLIT TRIP.
2-29	STILL DOWN		REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 3087. CHARGE-DISCHARGE IS IN PROGRESS.
<u>D REACTOR:</u>			
1-31	2-2	45.2	PERFORMED MISCELLANEOUS MAINTENANCE FOLLOWING GRAPHITE TEMPERATURE CONTROL OUTAGE.
2-21	2-24	65.9	SCHEDULED CHARGE-DISCHARGE, TUBE REPLACEMENT, AND TRIP-OUT TESTS.
<u>DR REACTOR:</u>			
2-1	2-1	0.4	PANELLIT TRIP DUE TO AN ELECTRICAL FAILURE IN THE POISON COLUMN CONTROL FACILITY SYSTEM.
2-1	2-3	45.0	THE POISON COLUMN CONTROL FACILITY CHARGING MACHINE HUNG UP WHILE ATTEMPTING TO DISCHARGE BALL VALVE TUBE 2173. COMPLETED LEAK TESTING.
2-3	2-3	1.4	HIGH PRESSURE PANELLIT TRIP.
2-4	2-4	0.7	PANELLIT TRIP.
2-11	2-13	37.3	CHARGE-DISCHARGE FOLLOWING THE CORRECTION OF A LOOSE VENTURI ASSEMBLY.
2-13	2-13	0.3	PANELLIT TRIP.
2-18	2-23	127.6	LOOSE VENTURI ON TUBE 3467. PERFORMED CHARGE-DISCHARGE, LEAK TESTING, TUBE REPLACEMENT, AND TRIP-OUT TESTS.
2-24	2-24	1.5	CONTINUATION OF TRIP-OUT TESTS.
<u>F REACTOR:</u>			
2-1	2-6	134.9	SCHEDULED CHARGE-DISCHARGE AND MAINTENANCE.
2-6	2-7	1.4	INSUFFICIENT CONTROL.
2-25	2-29	80.7	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 1985. TUBE AND GASKET LEAKS WERE CORRECTED.
<u>H REACTOR:</u>			
2-8	2-10	36.4	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 0755 AND AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 0770. CHARGE-DISCHARGE.
2-10	2-10	1.0	INVESTIGATION OF BY-PASS INDICATIONS IN THE SAFETY CIRCUIT.
2-11	2-11	0.2	PANELLIT TRIP.
2-11	2-12	33.0	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 3661. REPLACEMENT OF TUBE 3661.

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

DATE DOWN	DATE UP	OUTAGE HOURS
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REMARKSH REACTOR: (CONT'D)

2-13	2-13	3.8	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 0884.
2-13	2-13	0.3	REAR PIGTAIL FAILURE.
2-16	2-17	32.6	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2978. REPLACEMENT OF TUBE 2978 AND CHARGE-DISCHARGE.
2-17	2-17	1.6	PANELLIT TRIP DUE TO A REAR CAP LEAK ON TUBE 2370.
2-17	2-17	2.8	PANELLIT TRIP DUE TO A REAR CAP LEAK ON TUBE 2675.
2-22	2-24	34.3	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2673. CHARGE-DISCHARGE.

KE REACTOR:

1-31	2-2	35.3	COMPLETED MISCELLANEOUS MAINTENANCE.
2-7	2-9	32.7	TRIP DUE TO A CLUSTER FUEL ELEMENT FAILURE IN LOOP 1. CHARGE-DISCHARGE.
2-21	2-22	33.1	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 5556.
2-22	2-23	7.1	REMOVAL OF A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 4645.*
2-23	2-25	37.7	LEAK TESTING.
2-25	2-25	10.9	INDICATIONS OF A WATER LEAK. LEAKING TUBE 4651 WAS REPLACED.
2-25	2-25	0.7	PANELLIT TRIP.
2-26	2-26	0.7	REMOVAL OF AN I&E 94 METAL RUPTURE FROM TUBE 1151.

KW REACTOR:

2-5	2-6	34.5	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 3890. PERFORMED CHARGE-DISCHARGE.
2-23	2-25	60.2	REMOVAL OF AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2459. PERFORMED CHARGE-DISCHARGE AND TUBE REPLACEMENT.
2-26	2-26	22.6	REMOVAL OF A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 2483.
2-27	2-27	4.7	POISON DISCHARGE.

* AN I&E NORMAL-URANIUM RUPTURE WAS LATER DISCOVERED IN MATERIAL DISCHARGED FROM TUBE 4651.

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

TABULATION OF RUPTURED URANIUM SLUGS							
TUBE NO.	DATE RUPTURED	TUBE POWER ^{1/}	CONCENTRATION (MWD/T)	ASSIGNED LOSS MWD	DAYS	METAL	TYPE FAILURE
(NORMAL)							
2875-C	2-4	1149	316	901	0.50	I&E	HOT SPOT.
3890-KW	2-5	1490	394	4671	1.30	I&E	HOT SPOT.
2276-C	2-6	1175	344	3706	2.08	I&E	SIDE OTHER.
0755-H	2-8	800	427	782	0.46	SOLID	SIDE HOT SPOT.
0770-H	2-8	1125	275	31	0.02	I&E	SIDE OTHER.
1478-C	2-10	1071	343	3793	2.13	I&E	UNDETERMINED.
3880-B	2-11	1140	423	1753	1.10	I&E	HOT SPOT.
3661-H	2-11	1121	519	1204	0.70	I&E	SIDE HOT SPOT.
0884-H	2-13	1131	532	1657	0.97	I&E	HOT SPOT.
0765-C	2-14	1218	416	1988	1.12	I&E	HOT SPOT.
2978-H	2-15	1049	561	813	0.48	I&E	HOT SPOT.
5556-KE	2-21	970	478	1486	0.44	SOLID	SPLIT.
2673-H	2-22	1063	569	1084	0.63	I&E	HOT SPOT.
4645-KE	2-22	1002	500	1590	0.47	SOLID	SPLIT.
4651-KE ^{2/}	2-23	-	563	-	-	I&E	HOT SPOT.
2459-KW ^{3/}	2-23	1513	689	3260	0.91	I&E	HOT SPOT.
1985-F	2-25	1209	529	633	0.37	I&E	HOT SPOT.

^{1/} AT TIME OF RUPTURE.

^{2/} WAS NOT DISCOVERED UNTIL INVESTIGATION AFTER MONTH'S END.

^{3/} REPORTED AS 2457 IN WEEKLY.

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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 MWD	LOSS, DAYS	METAL	TYPE FAILURE
(NORMAL, CONT'D)							
2483-KW	2-26	1473	531	5050	1.40	I&E	HOT SPOT.
3284-B	2-26	1162	728	3704	2.32	I&E	UNDETERMINED.
3087-C	2-29	1140	715	1133	0.64	I&E	HOT SPOT.
(94 METAL)							
1151-KE	2-26	1443	363	2055	0.61	I&E	HOT SPOT.
(160 METAL)							
2160-KE	2-7	900	2520	3022	0.90	7-ROD CLUSTER	JACKET SPLIT.

TUBE REPLACEMENT - DURING FEBRUARY, 79 PROCESS TUBES WERE REPLACED. ELEVEN TUBE LEAKS AND TWO VAN STONE LEAKS WERE CORRECTED.

A TOTAL OF NINE RIBLESS ZIRCONIUM PROCESS TUBES ARE NOW INSTALLED IN C REACTOR. SEVEN OF THESE WERE INSTALLED DURING FEBRUARY. A TOTAL OF 26 RIBLESS ZIRCALOY-2 TUBES FOR C REACTOR HAS BEEN RECEIVED FROM BRIDGEPORT BRASS AND HARVEY ALUMINUM. DELIVERY OF THE REMAINING 74 TUBES ON ORDER SHOULD BE NEARLY COMPLETE BY MID-MARCH. AN ADDITIONAL 200 RIBLESS C REACTOR TUBES ARE BEING ORDERED FOR DELIVERY BY JUNE 15. CONTRACTS FOR DEVELOPMENT AND PRODUCTION OF RIBBED ZIRCALOY-2 TUBES FOR THE PRODUCTION REACTORS ARE BEING TERMINATED, ALTHOUGH AN ESTIMATED TWENTY TO THIRTY RIBBED TUBES SHOULD BE DELIVERED FROM TUBES ALREADY IN PROCESS ON THESE ORDERS.

SELF-SUPPORTED FUEL ELEMENTS - IRRADIATED, SELF-SUPPORTED, I&E FUEL ELEMENTS OF 147-METAL CORES FROM FOUR TUBES OF A PRODUCTION TEST SHOW NO INDICATION OF HOT SPOTS ON ANY OF THE PIECES. THESE PIECES AND THE CONTROL PIECES IN THE TEST WERE OPERATED AT SPECIFIC POWERS RANGING FROM 90 TO 140 KW/FT. THE AVERAGE EXPOSURE OF THE SELF-SUPPORTED PIECES WAS 850 MWD/T WITH NO RUPTURES. THIS COMPARES WITH TWO RUPTURES AT ABOUT 300 MWD/T IN THE NONSELF-SUPPORTED I&E TYPE CONTROL PIECES. STATISTICALLY, THESE DATA INDICATE, WITH A 95% CONFIDENCE, A 30-FOLD IMPROVEMENT IN THE SELF-SUPPORTED I&E FUEL ELEMENT OVER THE PRESENT TYPE I&E FUEL ELEMENT.

POISON SPLINE AND PCCF STARTUPS - NONEQUILIBRIUM LOSSES WERE REDUCED BY MORE THAN 50% DURING SEVERAL STARTUPS AT THE TWO K REACTORS THROUGH LARGE SCALE USE OF POISON SPLINES FOR TRANSIENT CONTROL. SIGNIFICANT IMPROVEMENTS WERE MADE IN STARTUP EFFICIENCIES AT DR AND H REACTORS, FOLLOWING ADDITIONS TO AND RELOCATION OF PCCF COLUMNS. THE AVERAGE FLATTENING EFFICIENCY AS MEASURED BY THE TOTAL ECT REACHED A RECORD HIGH OF NEARLY 77.5% OF ALL REACTOR TUBES, WITH MOST REACTORS AT A RELATIVELY HIGH POINT IN FLATTENING. KE REACTOR ACHIEVED AN ECT VALUE OF 80.5% OF TOTAL REACTOR TUBES.

THE USE OF A POISON-SPLINE COILER MACHINE WAS DEMONSTRATED AT 105-KW REACTOR. EXCEPT FOR DEFICIENCIES IN THE REEL DESIGN, THE MACHINE PERFORMED SATISFACTORILY. AN IMPROVED REEL PROTOTYPE WAS DESIGNED AND PASSED PRELIMINARY TESTING WITH NO PROBLEMS.

REAR-FACE CAP REMOVAL - AN IMPROVED HANDLING SYSTEM FOR REAR-FACE NOZZLE CAPS INCORPORATES THE USE OF A GRAVITY ROLL CONVEYOR, NOZZLE CAP TRACKS, AND CAP TRAYS USED IN CONNECTION WITH AN ENGINEERED SYSTEM OF REMOVING, SERVICING, AND REPLACING NOZZLE CAPS FOR CHARGE-DISCHARGE ACTIVITIES. THE INSTALLATION OF THE NEW EQUIPMENT AT KE AND KW IS COMPLETE, AND SIMILAR EQUIPMENT HAS BEEN PROGRAMMED FOR THE REMAINING REACTORS.

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 86.7% OF FORECAST ^{2/}, WITH 91.1% OF THE TOTAL PRODUCED BY PUREX AND 8.9% BY REDOX.

1/ AT TIME OF RUPTURE.

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

PLANT OPERATIONS (CONT'D)

SEPARATIONS (CONT'D)

PUREX - THE PLANT PROCESSED 375.7 TONS OF NORMAL URANIUM DURING FEBRUARY. DECONTAMINATION PERFORMANCE WAS IMPROVED BUT STILL BELOW ACCEPTABLE PROCESS STANDARDS. THE PLANT WAS PLACED ON TOTAL REWORK ON TWO SEPARATE OCCASIONS. THE FIRST TIME WAS FEBRUARY 1 TO 4. IT BECAME NECESSARY TO PLACE THE PLANT ON TOTAL REWORK A SECOND TIME, FEBRUARY 18 TO 23. THE PROCESS WAS SHUT DOWN ON FEBRUARY 28 AT WHICH TIME A NEPTUNIUM RECOVERY RUN WAS STARTED.

THE SILICA-GEL FACILITY PROCESSED 394 TONS OF URANIUM DURING THE MONTH TO PRODUCE SPECIFICATION MATERIAL FOR SHIPMENT.

THE PLUTONIUM ANION EXCHANGE UNIT OPERATED SATISFACTORILY THROUGHOUT MOST OF THE MONTH WITH ONLY MINOR MECHANICAL FAILURES OCCURRING.

WASTE LOSSES FOR THE MONTH TOTALLED 0.37% OF THE PLUTONIUM THROUGHPUT AND 0.10% OF THE URANIUM THROUGHPUT.

TESTS PERFORMED AT MONTH'S END REVEALED THREE CONCENTRATOR TUBE BUNDLE FAILURES. THEY ARE SCHEDULED FOR REPLACEMENT DURING THE FEBRUARY 28 SHUTDOWN. THE UNITS ARE VALUED AT \$35,500 EACH.

THE A-2 SILVER REACTOR PLUGGED AFTER PROCESSING THE OFF-GASES FROM APPROXIMATELY 2,900 TONS OF URANIUM. THE UNIT WAS SUCCESSFULLY FLUSHED WITH A SOLUTION OF SODIUM THIOSULFATE AND CAUSTIC AND RETURNED TO SERVICE, BRINGING THE TOTAL NUMBER OF REGENERATIONS FOR THIS UNIT TO FIVE.

THE ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE AVERAGED .70 CURIES PER DAY FOR THE MONTH. A MONTHLY TOTAL OF 20.2 CURIES WITH A DAILY MAXIMUM OF 1.99 CURIES WAS MEASURED.

ON FEBRUARY 25, A FLASH FIRE OCCURRED IN N CELL PRESSURIZING THE HOOD AND SPREADING PLUTONIUM CONTAMINATION IN THE ROOM, REGULATION HOT SHOP AND LOBBY, RP ROOM AND CORRIDOR, STAIRWELLS, AND ADJACENT AREAS. CAUSE OF THE FIRE WAS DUE TO WELDING SPARKS WHICH DROPPED INTO THE HOOD DURING THE WELDING OF PIPE THROUGH THE TOP OF THE HOOD. THREE CONSTRUCTION MEN, AN OPERATOR, AND A RADIATION MONITOR WERE CONTAMINATED AS A RESULT OF THE INCIDENT. THERE WERE FOUR CASES OF POSITIVE NASAL SMEARS, ALL OF WHICH WERE SUCCESSFULLY IRRIGATED BELOW DETECTION LIMITS. ALL PERSONNEL INVOLVED WERE DECONTAMINATED SUCCESSFULLY. CONTINUITY OF OPERATION WAS NOT AFFECTED AND EQUIPMENT DAMAGE WAS NEGLIGIBLE. DECONTAMINATION COSTS WERE ESTIMATED TO BE \$5,000.

REDOX - THE REDOX PLANT PROCESSED 47.7 TONS OF 94 METAL IN ABOUT NINE DAYS OF OPERATION DURING FEBRUARY.

PROCESSING OPERATIONS WERE AT A REDUCED RATE DURING THE FIRST WEEK OF THE MONTH BECAUSE OF A LEAKING WASTE CONCENTRATOR. THE CONCENTRATOR WAS LEAKING AT BOTH TUBE BUNDLE FLANGES AND ON THE TANK WALL. CONSIDERABLE DIFFICULTY WAS EXPERIENCED WITH INSTALLATION OF THE NEW WASTE CONCENTRATOR, CAUSING A TWO-WEEK OUTAGE INSTEAD OF THE PLANNED ONE WEEK OUTAGE. INSTALLATION WAS COMPLETED ON FEBRUARY 19. PROCESSING OPERATIONS RESUMED ON FEBRUARY 22 AND CONTINUED ON A FIVE-DAY-PER-WEEK BASIS UNTIL MONTH END. THE QUALITY OF BOTH PRODUCT STREAMS WAS MAINTAINED WITHIN SHIPPING SPECIFICATIONS, EXCEPT THAT REWORK OF ABOUT 20% OF THE URANIUM WAS NECESSARY.

TO OBTAIN NEEDED FISSION PRODUCT DECONTAMINATION IN THE PLUTONIUM PRODUCT, THE THIRD PLUTONIUM CYCLE WAS OPERATED ON A LOW-ACID OR ACID-DEFICIENT FLOWSHEET FROM FEBRUARY 22 INTO MARCH. SO FAR THERE HAS BEEN NO NOTICEABLE INCREASE OF PLUTONIUM LOSS IN THE 3 AW STREAM. THIS FLOWSHEET CHANGE RESULTS IN A 2- TO 3-FOLD INCREASE IN DECONTAMINATION.

IT WAS DETERMINED IN FEBRUARY THAT THE ACCUMULATION OF NEPTUNIUM IN REDOX AT THE END OF JANUARY WAS NOT AS GREAT AS HAD BEEN THOUGHT. HOWEVER, BY THE END OF FEBRUARY, THE TOTAL NEPTUNIUM ACCUMULATION IN THE PLANT WAS APPROXIMATELY 425 GRAMS WITH NO SIGNS OF APPROACH TO AN EQUILIBRIUM LOSS. REMOVAL OF THE ACCUMULATED NEPTUNIUM IS PLANNED FOR THE THIRD WEEK OF MARCH USING THE SAME BASIC FLOWSHEET THAT WAS USED IN THE FIRST REMOVAL IN DECEMBER 1959. THE PROCESS ROUTINGS FOR THE REMOVAL FLOW PATTERN HAVE ALREADY BEEN SIMPLIFIED IN THE SOLVENT EXTRACTION PORTION, AND ADDITIONAL PIPING CHANGES TO SIMPLIFY THE ROUTING THROUGH THE PLUTONIUM CONCENTRATION BUILDING ARE SCHEDULED FOR INSTALLATION JUST PRIOR TO THE REMOVAL IN MARCH.

WASTE LOSSES WERE UNDER GOOD CONTROL, BEING 0.11% FOR URANIUM AND 0.32% FOR PLUTONIUM. THE HIGH SALT D-9 WASTES WERE REUSED AS NEEDED TO ADD SALT TO THE HEADEND BATCHES.

THE TOTAL IODINE EMISSION WAS 0.628 CURIES FOR A DAILY AVERAGE OF 0.022 CURIES. THE MAXIMUM PER DAY WAS 0.16 CURIES.

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SEPARATIONS (CONT'D)

UO₃ - U₄ PRODUCTION FOR FEBRUARY TOTALED 505 TONS OF NORMAL MATERIAL, 125.1% OF FORECAST. ALL SHIPPING SCHEDULES WERE MET. BECAUSE OF LIMITED SUPPLIES OF 94-METAL UNH, ONLY A SMALL QUANTITY WAS PROCESSED THROUGH UO₃ PLANT COMPARED WITH 47 TONS FORECAST. NO 94 METAL WAS SCHEDULED FOR SHIPMENT; AND, ALTHOUGH A SMALL QUANTITY WAS PROCESSED, ANALYSIS WAS NOT COMPLETED AND NONE WAS ACCEPTED FOR SHIPMENT.

FOR EACH TON OF URANIUM PROCESSED, 1,001 POUNDS OF NITRIC ACID (95% OF THEORETICAL) WAS RECOVERED AT AN AVERAGE CONCENTRATION OF 47%. FIFTEEN CARLOADS OF ACID, AVERAGING 41%, WERE SHIPPED TO PUREX.

RESEARCH AND DEVELOPMENT

NEPTUNIUM PROCESSING - ACCUMULATION OF NEPTUNIUM IN THE PROCESS AT PUREX AND REDOX CONTINUED DURING FEBRUARY. PUREX BEGAN A NEPTUNIUM RECOVERY RUN ON FEBRUARY 28 WHICH CONTINUED INTO MARCH.

TRANSPLUTONIUM AND PRTR FUEL ELEMENTS - THERE ARE TWO PROGRAMS UNDER WAY TO FABRICATE 0.94-INCH DIAMETER BY 5-FOOT LONG PU-AL FUEL ELEMENTS. THESE ARE THE TRANSPLUTONIUM PROGRAM AND THE PRTR PROGRAM REQUIRING 144 AND 272 ELEMENTS, RESPECTIVELY. AT THE END OF FEBRUARY, 157 PIECES WERE IN THE FOLLOWING STAGES OF FABRICATION:

25 CAST BILLET CORES
14 MACHINED BILLET CORES
96 EXTRUDED AND STRAIGHTENED RODS
22 MACHINED RODS, COMPLETED

157 TOTAL

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PLANT ACQUISITION AND CONSTRUCTIONPROJECT AND DESIGN STUDIES

CGI-791, REACTOR CONFINEMENT - DESIGN IS ESSENTIALLY COMPLETE ON ALL EXCEPT PHASE III WHICH CONSISTS PRIMARILY OF 105 BUILDING MODIFICATION (PRINCIPALLY VENTILATION IMPROVEMENTS). THE TOTAL COST IS ESTIMATED AT \$6,380,000. A REVISED PROPOSAL IS BEING PREPARED COVERING ADDITIONAL VENTILATION WORK NECESSARY. A PARTICULAR PROBLEM ENCOUNTERED WAS PROVIDING ADDITIONAL RADIATION SHIELDING IN THE EXHAUST FAN ROOMS AT THE 105-K BUILDINGS. LATEST PLANS ARE TO PROVIDE GUNITE CONCRETE FOR THE ADDITIONAL THICKNESS REQUIRED.

A REPORT ON THE HISTORY AND PRESENT STATUS OF THE ENTIRE PROJECT IS UNDER PREPARATION FOR SUBMISSION IN MARCH. THIS REPORT WAS REQUESTED BY THE ACRS AT ITS FEBRUARY MEETING.

CAI-816, NEW PRODUCTION REACTOR - DESIGN CRITERIA: IT IS NOW PLANNED TO PROVIDE ONLY 68 TUBE CHANNELS IN ADDITION TO THE 1,004 CHANNELS INTO WHICH PROCESS TUBES WILL BE INSERTED. THE 68 CHANNELS WILL BE VACANT INITIALLY. REVISION NO. 1 TO THE DESIGN CRITERIA FOR PILE GAS INSTRUMENTATION HAS BEEN APPROVED.

DEVELOPMENT: A SEVEN-ROD CLUSTER ELEMENT RUPTURED IN KER LOOP NO. 1. THIS TUBE IS TO BE REMOVED AT A LATER DATE FOR DETAILED ANALYSIS WHICH IS EXPECTED WILL PROVIDE NEW DATA ON IRRADIATION EFFECTS ON ZIRCONIUM.

R&D TUBE BURSTING TESTS HAVE BEEN COMPLETED IN 189-D BUILDING. THE EXPLOSION CONTAINMENT EQUIPMENT IS NOW BEING USED TO CHECK NOZZLE ENTRY FITTINGS AND PIGTAILS TO DESTRUCTION OR 3,000 PSIG.

FEDERAL POWER COMMISSION: THE NPR POWER FEASIBILITY STUDY WAS COMPLETED BY THE FEDERAL POWER COMMISSION. IT WILL BE DISTRIBUTED EARLY IN MARCH.

CAH-822, PRESSURIZED GAS LOOP FACILITY - PRTR - DESIGN ON THE OUT-OF-PILE PORTION BY THE FABRICATOR IS COMPLETE. DELIVERY OF THE EQUIPMENT IS EXPECTED BY JUNE 1, 1960. THE LOCAL DETAILED DESIGN OF THE IN-PILE PORTION IS 90% COMPLETE.

CAI-835, ADDITIONAL OFFICE SPACE - 100-D AREA - FINAL DRAWINGS AND SPECIFICATIONS FOR CONSTRUCTION HAVE BEEN RECEIVED FOR THE CONTRACT BID PACKAGE.

CAH-842, CRITICAL REACTIVITY MEASURING FACILITY - PRTR - DESIGN CRITERIA HAVE BEEN COMPLETED AND ARE BEING GIVEN FINAL REVIEW BY THE ARCHITECT-ENGINEER. A PROJECT PROPOSAL REVISION COVERING CONSTRUCTION HAS BEEN RECEIVED AND GIVEN LOCAL APPROVAL.

CAE-852, SUPPORTING TELEPHONE FACILITIES FOR NPR - FINAL SPECIFICATIONS FOR THE 100-LINE EXCHANGE EQUIPMENT HAVE BEEN RECEIVED AND GIVEN TO KAISER ENGINEERS FOR PROCUREMENT.

CGH-866, SHIELDED ANALYTICAL LABORATORY - TITLE I DESIGN IS COMPLETE. A PROPOSAL FOR COMPLETE DESIGN HAS BEEN FORWARDED TO THE WASHINGTON OFFICE FOR APPROVAL. DESIGN CRITERIA ARE UNDER STUDY. THIS IS A FY 1961 PROJECT FOR WHICH ADVANCE DESIGN FUNDS HAVE BEEN REQUESTED.

CAH-867, FUEL ELEMENT RUPTURE TEST FACILITY - APPROVAL HAS BEEN RECEIVED FOR PRELIMINARY DESIGN. PREPARATION OF DESIGN CRITERIA IS UNDER WAY.

CGH-877, PYROCHEMICAL TEST FACILITY - 321-A BUILDING - A DESIGN SCHEDULE WAS APPROVED DURING THE MONTH. DETAILED DESIGN IS NOW 42% COMPLETE VERSUS 40% SCHEDULED.

NEW PRODUCTION REACTOR DISSOLVER - REDOX - PREPARATION OF A PROJECT PROPOSAL FOR A SECOND MULTIPURPOSE DISSOLVER IS UNDER WAY. THIS DISSOLVER WILL BE USED TO PROCESS NPR FUEL ELEMENTS.

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PLANT ACQUISITION AND CONSTRUCTION (Cont'd)

PLANT CONSTRUCTION

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

PROJECT	PROJECT PROPOSAL NUMBER	MAJOR PROJECTS CONSTRUCTION				DESIGN	PRESENT
		ACTUAL STARTING DATE	SCHED. COMPL. DATE	COMPLETION		%	WORKING
				% SCHED.	% ACTUAL	ACTUAL COMPL.	ESTIMATE (THOUSANDS)
PRTR	AEC-167	3-6-58	8-30-60	87	75	100	\$12,750
RMC BUTTON LINE, 234-5	CG-734	2-18-58	7-15-60	88	85	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	56	56	100	2,685
REACTOR CONFINEMENT	CGI-791	3-31-59	1-1-61	31	31	78	4,200 1/
306 BLDG. PILOT PLANT							
MODIFICATION	CGF-810	1-29-59	3-15-60	93	94	100	755
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	74	73	100	1,000
ADD'L PU. FAB. FAC.							
234-5 BLDG.	CGC-811	8-24-59	7-1-61	21	13	95	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	0.7	0.5	41	145,000
NEW FUEL CLAD. FAC.	CAF-847	7-27-59	12-31-60 2/	15	15	21	3,600

1/ PORTION OF OVER-ALL CONFINEMENT PROJECT.

2/ BASED ON PRELIMINARY CONSTRUCTION SCHEDULE PREPARED AND APPROVED ON JANUARY 15, 1960.

CONTRACT AT(45-1)-1410, PROJECT AEC-167, PRTR, SHAW & ESTES

PHASE III - PLACING OF HEAVY WEIGHT CONCRETE IN THE BIOLOGICAL SHIELD WAS STARTED FEBRUARY 1, 1960, AND COMPLETED DURING THE WEEK ENDING FEBRUARY 19, 1960, WITH THE EXCEPTION OF THE TOP 6".

INSTALLATION OF THE FUEL ELEMENT TRANSFER SYSTEM MECHANISM WAS STARTED FEBRUARY 3, 1960.

THE MOCK-UP AND FABRICATION OF THE CONNECTION PIPING BETWEEN THE THERMAL SHIELD COOLING COILS AND THE SUPPLY HEADERS WAS COMPLETED FEBRUARY 4, 1960.

THE CAST-IRON COVER BLOCKS FOR THE FUEL ELEMENT EXAMINATION FACILITY WERE DELIVERED TO THE JOB SITE DURING THE WEEK ENDING FEBRUARY 26.

CONTRACT AT(45-1)-1446, PROJECT CG-731, CRITICAL MASS LABORATORY, HOWARD S. WRIGHT CONSTRUCTION COMPANY - PAINTING OF THE CEILINGS AND WALLS WITH AMERCOAT IN THE REACTOR SECTION WAS COMPLETED.

THE TWO REACTOR HOODS WERE INSTALLED IN THE REACTOR ROOM.

ROOFING ON ALL THREE SECTIONS OF THE BUILDING WAS COMPLETED.

CONTRACT AT(45-1)-1481, PROJECT CG-789, ADDITIONAL FIRE PROTECTION, 234-5 BUILDING, NATIONAL AUTOMATIC SPRINKLER COMPANY - ERECTION OF THE PIPING INSIDE THE BUILDING WAS STARTED FEBRUARY 24, 1960. THE INSTALLATION OF THE OUTSIDE LINES HAS BEEN COMPLETED.

CONTRACT AT(45-1)-1483, PROJECT CGI-791, REACTOR CONFINEMENT, R. B. MILES CONSTRUCTION CO.

PHASE II-B:

100-B - CONCRETE FOR THE FOUNDATION SLAB WAS PLACED ON FEBRUARY 25, 1960.

100-C - EXCAVATION FOR THE FILTER BUILDING WAS COMPLETED AND CONCRETE FOR THE FOUNDATION SLAB WAS PLACED.

100-DR - EXCAVATION FOR THE FILTER BUILDING WAS STARTED FEBRUARY 2, 1960, AND WAS COMPLETED DURING THE WEEK ENDING FEBRUARY 26, 1960.

CONTRACT AT(45-1)-1440, PROJECT CGF-810, 306 PILOT PLANT MODIFICATION, J. A. JONES - THE EXTRUSION PRESS LOCATED IN THE 333 BUILDING STARTED PRODUCTION ON FEBRUARY 24, 1960.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION (CONT'D)

CONTRACT AT(45-1)-1491, PROJECT CGC-811, INSPECTION FACILITY, 234-5 BUILDING, W. G. CLARK CONSTRUCTION COMPANY - THE FIRST CONCRETE PLACEMENT (200 C.Y.) ON THE SHIELDING WALLS FOR THE 1,000,000 VOLT X-RAY ROOM HAS BEEN PLACED.

CONTRACT AT(45-1)-1455, PROJECT CAI-816, NEW PRODUCTION REACTOR, KAISER ENGINEERS - ELEVEN ZIRCONIUM PROCESS TUBES WERE RECEIVED ON FEBRUARY 18, 1960, FROM THE CHASE BRASS & COPPER COMPANY, INC.

MILLWRIGHTS ARE WORKING IN THE 2101 BUILDING REHABILITATING THE MACHINERY IN THE GRAPHITE MACHINING AREA.

KAISER FORCES, AT THE TUBE SHOP, STARTED INSTALLING THE ALKALI AND RINSE TANKS.

SC-7, SITE GRADING OF THE TEMPORARY CONSTRUCTION AREA - FIELD WORK WAS COMPLETED BY THE GEORGE LEWIS CONSTRUCTION COMPANY ON FEBRUARY 8, 1960.

SC-8, INSTALLATION OF THE UNDERGROUND TELEPHONE CABLE, TULLAR POWER CONSTRUCTION COMPANY - FINAL INSPECTION WAS CONDUCTED ON THE "M" AND "N" AREA TELEPHONE CABLE ON FEBRUARY 25, 1960.

SC-9, ADMINISTRATION BUILDING - GEORGE GRANT MADE THE FIRST CONCRETE PLACEMENT ON THE ADMINISTRATION BUILDING ON FEBRUARY 3. ALL CONCRETE FOR THE FOUNDATIONS AND PIERS WAS PLACED BY THE END OF THE MONTH.

SC-10, RIVER PUMP HOUSE - JENSEN-RASMUSSEN HAS COMPLETED EXCAVATION FOR THE PUMP HOUSE. SOIL EXPERTS FOR BURNS & ROE EXAMINED THE BUILDING SITE AND ELIMINATED TWO OF THE FOUR KEYS, WHICH WILL RESULT IN A CONTRACT SAVINGS.

THE FIRST STRUCTURAL CONCRETE FOR THE RIVER PUMP HOUSE (EASTERN KEY) WAS PLACED FEBRUARY 17, 1960.

SC-11, TEMPORARY ADMINISTRATION BUILDING - GEORGE GRANT HAS MOVED SIX OF THE TEN SECTIONS, APPROXIMATE SIZE, 40' X 70' EACH, FROM THEIR LOCATION IN THE 1100 AREA TO THE SITE OF THE T-C ADMINISTRATION BUILDING AT NPR. THE FLOOR SLAB FOR THE T-C ADMINISTRATION BUILDING HAS BEEN PLACED.

SC-12, MODIFICATION TO TUBE SHOP, 2101-M BUILDING, 275 EA BUILDING AND TC BOILER - THE SUB-CONTRACTOR, KEN CROSS, STARTED WORK ON HIS SUBCONTRACT FEBRUARY 1, 1960. WORK WAS COMPLETED BY THE SUBCONTRACTOR ON THE 275 EA BUILDING ON FEBRUARY 19, 1960.

CONTRACT AT(45-1)-1493, PROJECT CAE-851, WATER LINE REPLACEMENT, WHITE BLUFFS, RANDOLPH PLUMBING AND HEATING COMPANY - FIELD WORK WAS STARTED FEBRUARY 18, 1960.

NPR
CONTRACTS

CONTRACT AT(45-1)-1494 WAS AWARDED TO THOMPSON & GEORGESON IN THE AMOUNT OF \$269,000 FOR THE CONSTRUCTION OF A CENTRAL INDUSTRIAL FIRE STATION.

PROJECT CAI-816, CONTRACT ACTIONS BY KAISER ENGINEERS - NO CONTRACTS WERE AWARDED BY KAISER DURING THE MONTH OF FEBRUARY; HOWEVER, BIDS WERE OPENED ON THE FOLLOWING:

1. EXCAVATION AND SUBSTRUCTURE OF 190-N AND 105-N BUILDINGS.
2. BATCH PLANT OPERATION.
3. TURBINE GENERATOR FOR STANDBY POWER.

PROCUREMENT

THE ATOMIC ENERGY COMMISSION APPROVED 21 AWARDS MADE BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$350,182.04.

THE ATOMIC ENERGY COMMISSION PLACED 317 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$276,486.70.

PROJECT CAI-816, PROCUREMENT ACTIONS - FIVE HUNDRED AND FORTY-SIX PURCHASE ORDERS AT A TOTAL COST OF \$10,166,081 HAVE BEEN PLACED TO DATE.

SIXTY-THREE PURCHASE ORDERS WERE PLACED DURING FEBRUARY FOR \$232,128.

TWENTY-ONE REQUISITIONS ARE OUT FOR BID AT AN ESTIMATED COST OF \$7,095,604.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PROCUREMENT (CONT'D)

THE PRICE REDETERMINATION WITH CHASE BRASS & COPPER COMPANY AND ALLEGHENY LUDLUM STEEL ON THE PILOT ORDERS FOR NPR TUBES HAS BEEN COMPLETED.

CALCULATION - STRESS ANALYSIS OF THE NPR PIPING SYSTEM: A CONTRACT WITH THE ELECTRIC BOAT DIVISION OF GENERAL DYNAMICS CORPORATION, NOT TO EXCEED \$141,700, WAS FORWARDED FOR THEIR SIGNATURE.

NPR INFORMATION CENTER

THE NPR MODEL IN HANFORD'S NPR INFORMATION CENTER IS PROVING TO BE OF CONSIDERABLE INTEREST AND VALUE TO VENDORS AND PROSPECTIVE SUBCONTRACTORS WHO VISIT THE PROJECT. BECAUSE OF ITS CENTRAL LOCATION IN THE 703 BUILDING, RICHLAND, THE REACTOR MODEL PROVIDES A QUICK STUDY FOR THOSE INTERESTED IN SEEING DETAILS OF THE PROCESS UNIT BEFORE SUBMITTING BIDS ON CONSTRUCTION OR MATERIALS. IT ALSO IS BEING USED TO SOME EXTENT FOR TRAINING PROJECT PERSONNEL.

AIR MAIL

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

MAR 11 1950

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 FEB 1950.
The "Secret" portion, Part I, is forwarded as a separate
report.

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

- 10 Copies - Addressees
- 1 Copy - Construction Engineering & Supply Division
 - 1 Copy - Process Engineering & Manufacturing Division
 - 1 Copy - Security Division
 - 1 Copy - Mr. Raymond S. Phillips, Regional Audit
 - 1 Copy - Classified Files (Reading File)
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AIR MAIL

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

FEBRUARY 1960

PART II

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[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

FEBRUARY 1960

PART II

C O N T E N T S

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

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COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR FEBRUARY 1960:

	FEBRUARY 1	FEBRUARY 29
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	9	3
1. TOTAL HOUSES OCCUPIED	4	1
2. TOTAL HOUSES UNOCCUPIED	5	2
(A TOTAL OF 3,787 SINGLE HOUSES AND 1,017 DUPLEXES SOLD - 5,824 UNITS.)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	133	134
2. TOTAL APARTMENTS UNOCCUPIED	1	0
C. THERE ARE THREE DORMITORIES NOW IN OPERATION BY A COMMERCIAL OPERATOR.		

PRIVATE HOUSING UNITS (WHERRY ACT):

	COLUMBIA HEIGHTS		SPOKANE HOUSING		TOTAL UNITS
	HOUSES	APTS.	HOUSES	APTS.	
TOTAL UNITS	280	220	400	100	1,000
RENTED	155	107	391	85	738
VACANT	125	113	9	15	262

DISPOSAL:

FIFTY-SEVEN RESIDENT PRIORITY APPLICATIONS WERE RECEIVED FOR THE LAST TWO UNSOLD HOUSES - AN "H" HOUSE AND AN "A" DUPLEX.

HHFA ADVISED THAT THE WASHINGTON OFFICE OF HHFA PLANS TO HIRE A CONSULTANT TO ADVISE THEM ON THE SALE OF BLOCK 732, NORTH OF SYMONS.

ON FEBRUARY 27, HHFA ADVERTISED FOR SALE ALL REMAINING VACANT LAND EXCEPT THE COMMERCIAL PROPERTY NORTH OF SYMONS. BIDS ARE TO BE OPENED ON MARCH 29. NINETY-ONE PROPERTIES WERE LISTED.

THE GENERAL SERVICES ADMINISTRATION AUTHORIZED THE TRANSFER OF THE POST OFFICE BUILDING TO THE POST OFFICE DEPARTMENT AT A \$8,500 REIMBURSEMENT. THE TRANSFER DOCUMENTS WERE FORWARDED TO THE POST OFFICE DEPARTMENT IN WASHINGTON FOR EXECUTION.

THE REPORT OF SALES FOR THE MONTH ENDING FEBRUARY 29, 1960 IS AS FOLLOWS:

	TOTAL INVENTORY	SALES CLOSED		UNSOLD	GOOD FAITH DEPOSITS
		PAST MONTH	TOTAL		
<u>PRIORITY PROPERTIES</u>					
SINGLE HOUSES	3,788	0	3,787	1	0
DUPLEX HOUSES	1,018	3	1,017	1	0
COMMERCIALS	127	4	48	79	12
CHURCHES	6	0	6	0	0
NON-PROFITS	7	0	3	4	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	0
RESIDENTIAL LOTS	106	0	59	49	6
RESIDENTIAL TRACTS	87	3	64	23	8
COMMERCIALS	24	0	5	19	1
INDUSTRIALS	42	0	19	23	2
FLOOD PLAINS	39	0	32	7	4
TOTAL	5,361	10	5,137	224	33

**DATE
FILMED**
8/3/92