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TO: Director, Division of Production
USAEC, Washington 25, D. C.

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

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:HRE

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

NOVEMBER 1959

PART I

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MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

NOVEMBER 1959

PART I

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HIGHLIGHT STATEMENT - NOVEMBER 1959

OPERATIONS

CANNED FUEL ELEMENT PRODUCTION TOTALLED 613 TONS, 108.0% OF FORECAST. THIS INCLUDED 119 TONS OF SOLID AND 432 TONS OF 1&E NORMAL-URANIUM AND 63 TONS OF 1&E 94-METAL. YIELDS WERE 91.5% FOR SOLID AND 86.7% FOR 1&E NORMAL-URANIUM AND 89.5% FOR 94-METAL PIECES. THE YIELD FOR NORMAL SOLID PIECES IS A RECORD HIGH.

A NEW RECORD WAS ESTABLISHED BY IN-REACTOR PRODUCTION OF 116.6% OF FORECAST. THIS GREATER-THAN-FORECAST PRODUCTION WAS POSSIBLE BECAUSE OF THE HIGH AVERAGE POWER LEVELS AND BECAUSE OF AN OVER-ALL AVERAGE TIME-OPERATED EFFICIENCY OF 86.8% AS COMPARED WITH THE 80% FORECAST. NEW MAXIMUM POWER LEVEL RECORDS WERE ESTABLISHED AT EACH OF THE EIGHT REACTORS. NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORDS WERE ESTABLISHED AT B, DR, KE, AND KW REACTORS. DURING THE MONTH THERE WERE ONLY TWO FUEL ELEMENT FAILURES, INCLUDING ONE 1&E NORMAL-URANIUM PIECE AT H AND ONE 1&E 94-METAL PIECE AT DR.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 112.9% OF FORECAST, WITH 88.7% OF THE TOTAL PRODUCED BY PUREX AND 11.3% BY REDOX.

PRODUCTION OF NORMAL UO_2 TOTALLED 452 TONS, 90.4% OF FORECAST. BELOW FORECAST PRODUCTION RESULTED FROM LOW BEGINNING FEED INVENTORY. ENRICHED UO_2 PRODUCTION TOTALLED 95.6 TONS, 101.7% OF FORECAST. ALL SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - DESIGN IS 30% COMPLETE. DESIGN MANPOWER - GENERAL ELECTRIC COMPANY 167; BURNS & ROE 107. DURING THE MONTH, WORK ON THE ADMINISTRATION BUILDING STARTED, AND CONTRACT FOR RIVER PUMP HOUSE SUBSTRUCTURE WAS LET. (SEE PART I, PAGES 8 & 9.)

CONFINEMENT - DESIGN IS 96% COMPLETE, AND CONSTRUCTION IS 16% COMPLETE VS. 15% SCHEDULED. (SEE PART I, PAGE 8.)

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 54% COMPLETE VS. 64% SCHEDULED. (SEE PART I, PAGE 11.)

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

COMMUNITY

DISPOSAL - 5,054 OF 5,362 SALE PROPERTIES HAVE BEEN SOLD, AND AN ADDITIONAL 78 GOOD FAITH DEPOSITS PLACED. (SEE PART II, PAGE 3.)

PLANT OPERATIONSMETAL PREPARATION

CANNING - NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALLED 613 TONS, 108.0% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM			
SOLID	118 TONS	91.5% YIELD	
I&E	432 "	86.7% "	
94 METAL - I&E	63 "	89.5% "	

THE 432 TONS OF NORMAL-URANIUM I&E PIECES PROCESSED INCLUDED APPROXIMATELY TWO TONS OF WATER MIXING ELEMENTS. THE 91.5% YIELD FOR ACCEPTABLE NORMAL SOLID PIECES IS A RECORD HIGH. CANNING LINE TIME-OPERATED EFFICIENCY WAS 90.2%. FIVE CANNING LINES WERE OPERATED ON EACH OF TWO SHIFTS ON A FIVE-DAY-PER-WEEK BASIS.

AT MONTH'S END, THE TOTAL INVENTORY OF CANNED FUEL ELEMENTS WAS APPROXIMATELY 900 TONS AND VARIED BY TYPE FROM 0.9 MONTH'S SUPPLY TO 2.2 MONTHS' SUPPLY. THE INVENTORY OF BARE URANIUM CORES, INCLUDING RECYCLED ELEMENTS IN PROCESS, TOTALLED APPROXIMATELY 700 TONS AND VARIED BY TYPE FROM 1.0 TO 1.6 MONTHS' SUPPLY.

APPROXIMATELY 31,000 PIECES WERE PROCESSED THROUGH THE FUEL ELEMENT RECOVERY OPERATION DURING NOVEMBER.

DINGOT MATERIAL - THE CANNING EVALUATION OF THE FIRST 25 TONS OF SLUGS FROM DINGOT PARENT STOCK HAS BEEN COMPLETED. ALTHOUGH THE AVERAGE HYDROGEN CONTENT IS SLIGHTLY HIGHER THAN DESIRED, HANFORD WILL ACCEPT 25 TONS PER MONTH OF THIS MATERIAL FOR PRODUCTION USE.

AUTOCCLAVE FAILURES - FOUR FUEL ELEMENTS FAILED DURING AUTOCCLAVE TESTING IN NOVEMBER. THREE OF THESE WERE APPARENTLY CAUSED BY THIN CAPS RESULTING FROM COLLET SLIPPAGE ON ONE OF ACME GRIDLEY LATHES. THIS HAS BEEN CORRECTED. THE OTHER FAILURE WAS DUE TO A PINHOLE IN THE WELD BEAD.

SCRAP SHIPMENTS - THERE WERE NONE.

REACTOR OPERATION

DURING NOVEMBER, 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)	82.0	95.2	82.5	85.5	85.5	86.8	179.0	182.0	878.5
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	81.0	90.6	72.4	80.1	63.7	81.6	165.8	170.8	806.0
TIME-OPERATED EFFICIENCY	87.8	77.9	72.1	93.8	93.6	85.2	92.8	90.9	86.8

A NEW RECORD WAS ESTABLISHED BY THE IN-REACTOR PRODUCTION FOR NOVEMBER, WHICH WAS 116.6% OF FORECAST ^{1/}. THIS GREATER-THAN-FORECAST PRODUCTION WAS POSSIBLE BECAUSE OF THE HIGHER-THAN-EXPECTED AVERAGE POWER LEVELS AND BECAUSE OF AN OVER-ALL AVERAGE TIME-OPERATED EFFICIENCY OF 86.8% AS COMPARED WITH THE 80% FORECAST. THE HIGHER TIME-OPERATED EFFICIENCY RESULTED FROM THE SMALL AMOUNT OF OUTAGE TIME REQUIRED FOR CHARGE-DISCHARGE AND TUBE REPLACEMENT AND FROM IMPROVED RUPTURE AND WATER LEAK EXPERIENCE. NEW MAXIMUM POWER LEVEL RECORDS WERE ESTABLISHED AT EACH OF THE EIGHT REACTORS. NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORDS WERE ESTABLISHED AT B, DR, KE, AND KW REACTORS. THE OVER-ALL PRODUCTION EFFICIENCY ^{2/} WAS 87.8%. AT THE END OF THE MONTH, EQUILIBRIUM POWER LEVELS AT C, DR, AND F REACTORS WERE LIMITED BY GRAPHITE TEMPERATURES. AT ALL OTHER REACTORS, EQUILIBRIUM POWER LEVELS WERE LIMITED BY RUPTURE CONTROL CONSIDERATIONS.

1/ "SECRET" DOCUMENT HAN-73696, JOHNSON/TRAVIS, DATED OCTOBER 23, 1959, 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)

DURING NOVEMBER, THERE WERE ONLY TWO FUEL ELEMENT FAILURES, INCLUDING ONE I&E NORMAL-URANIUM PIECE AT H AND ONE I&E 94-METAL PIECE AT DR. THE 94-METAL FAILURE AT DR OCCURRED AFTER ONLY ONE MONTH EXPOSURE AND WAS THE RESULT OF MECHANICAL DAMAGE DURING CHARGING. THIS BRINGS THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS TO 1,117, INVOLVING 1,137 PIECES (INCLUDING 62 I&E PIECES). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS 65, INVOLVING 67 PIECES. THE CUMULATIVE NUMBER OF DEPLETED-METAL RUPTURE INCIDENTS REMAINS AT 14, INVOLVING 14 PIECES.

FOLLOWING IS A SUMMARY OF NOVEMBER 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>			
11-27	STILL DOWN		FAULTY PANELLIT RELAY ON ROW 11. CHARGE-DISCHARGE. REMOVAL OF A STUCK CHARGE IS IN PROGRESS.
<u>C REACTOR:</u>			
11-7	11-13	153.5	SCHEDULED CHARGE-DISCHARGE AND THERMOCOUPLE REPLACEMENT. INSTALLATION OF FOG SPRAY EQUIPMENT.
11-13	11-14	0.8	PANELLIT TRIP.
11-14	11-14	4.5	POISON DISCHARGE.
<u>D REACTOR:</u>			
11-3	11-6	71.6	LEAK TESTING. PERFORMED CHARGE-DISCHARGE AND TUBE REPLACEMENT.
11-6	11-6	0.5	PLANNED TRIP: "DETERMINATION OF POWER RATE OF RISE" TEST.
11-6	11-6	0.3	PLANNED TRIP: "DETERMINATION OF POWER RATE OF RISE" TEST.
11-6	11-6	9.8	POISON DISCHARGE. REPAIRED "C" ELEVATOR DRIVE ASSEMBLY.
11-15	11-16	37.9	LEAK TESTING.
11-24	11-26	46.4	LEAK TESTING AND CHARGE-DISCHARGE.
11-29	STILL DOWN		PANELLIT TRIP DURING INSUFFICIENT REACTIVITY PERIOD. TUBE REPLACEMENT IS IN PROGRESS.
<u>DR REACTOR:</u>			
11-13	11-15	44.3	REMOVAL OF AN I&E 94-METAL RUPTURE FROM TUBE 4065. CHARGE-DISCHARGE AND LEAK TESTING.
<u>F REACTOR:</u>			
11-5	11-6	44.9	GRAPHITE TEMPERATURE CONTROL. MAINTENANCE WAS PERFORMED.
<u>H REACTOR:</u>			
11-4	11-6	47.3	SCHEDULED CHARGE-DISCHARGE. PERFORMED TRIP-OUT TESTS ON WATER FLOW SYSTEM.
11-28	11-30	59.4	REMOVAL OF AN I&E REGULAR-METAL RUPTURE FROM TUBE 1675. CHARGE-DISCHARGE AND PIGTAIL REPLACEMENT.
<u>KE REACTOR:</u>			
11-1	11-1	17.1	POISON DISCHARGE. A DELAY OF ABOUT 12 HOURS WAS EXPERIENCED DUE TO FAULTY RHEOSTAT ON NO. 1 PROCESS PUMP MOTOR.
11-16	11-17	34.5	TRIP ON KER LOOP NO. 3, WHEN A THERMOCOUPLE BLEW OUT OF ITS FITTING. CHARGE-DISCHARGE.
<u>KW REACTOR:</u>			
10-30	11-1	60.8	CONCLUDED CHARGE-DISCHARGE, FOLLOWING A CROSS-TIE TRIP.
11-2	11-2	4.0	POISON DISCHARGE.
11-3	11-3	0.4	TRIPPED WHEN THE INTERLOCK SWITCH WAS PUT IN BY-PASS POSITION. INVESTIGATION REVEALED THE SWITCH RECENTLY REPLACED ON DESIGN CHANGE NO. 302 DID NOT FUNCTION AS INTENDED.
11-29	STILL DOWN		SCHEDULED CHARGE-DISCHARGE.

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

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

TABULATION OF RUPTURED URANIUM SLUGS							
TUBE NO.	DATE RUPTURED	TUBE POWER ^{1/}	CONCENTRATION (MWD/T)	ASSIGNED LOSS		METAL	TYPE FAILURE
				MWD	DAYS		
(NORMAL)							
1675-H	11-28	966	672	848	.52	1&E	SIDE OTHER.
(94 METAL)							
4065-DR	11-13	1129	237	574	.36	1&E	CHARGING MACHINE DAMAGE.

TUBE REPLACEMENT - THERE WERE 55 TUBES INSTALLED DURING THE MONTH: 52 AT D, AND 1 EACH AT B, H, AND KE REACTORS. FIVE WATER LEAKS WERE CORRECTED. THESE INCLUDED THREE TUBE LEAKS AT D AND ONE VAN STONE LEAK AT EACH D AND DR.

POISON SPLINES - NONEQUILIBRIUM LOSSES WERE REDUCED AN ESTIMATED 20% AT KE BY THE USE OF 13 POISON SPLINES FOR STARTUP CONTROL ON NOVEMBER 17.

A NEW METHOD FOR SPLINE REMOVAL WAS DEMONSTRATED AT KE. THE SPLINE WAS FED THROUGH THE PULLER AND THENCE THROUGH THE ELEVATOR FLOOR GRATING INTO THE WATER-FILLED FRONT ELEVATOR PIT IN ONE PIECE. THIS TECHNIQUE HAS THE ADVANTAGE OF ELIMINATING THE CHOPPING OPERATION AND APPEARS TO BE APPLICABLE AT C AND H REACTORS AS WELL AS AT THE K'S.

SHIELDING STUDIES - AT F REACTOR, EXCESSIVELY HIGH SHIELD TEMPERATURE - APPROACHING 180°C - OCCURRED DURING THE MONTH. THIS RESULTED FROM A SEVERE FLUX DISTORTION, DUE TO THE WATER LEAK EARLY IN THE MONTH, AND FROM HIGH CO₂ CONCENTRATIONS. DURING THE ENSUING OUTAGE, THE REACTOR WAS OPENED FOR THERMOCOUPLE REPLACEMENT. THE OBSERVATION OF BIOLOGICAL SHIELD TEMPERATURES OF 123°C AFTER 36 HOURS OF OUTAGE TIME, COMBINED WITH AN ODOR OF BURNED WOOD, INDICATED AN EXCESSIVE BIOLOGICAL SHIELD DECOMPOSITION RATE. THE UNIT WAS PURGED WITH HELIUM, AND MAXIMUM SHIELD TEMPERATURES KEPT BELOW 160°C DURING THE FOLLOWING OPERATING PERIOD. PARTIAL FRINGE POISONING IS PLANNED AT THE FIRST OPPORTUNITY, WITH ADDITIONAL CHARGES PHASED IN AS THE FIRST FRINGE POISON TUBES APPROACH THEIR NORMAL DISCHARGE GOAL.

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 112.9% OF FORECAST ^{2/}, WITH 88.7% OF THE TOTAL PRODUCED BY PUREX AND 11.3% BY REDOX.

PUREX - THE PLANT PROCESSED 442 TONS OF URANIUM DURING THE MONTH.

REPLACEMENT OF THE HA EXTRACTION COLUMN ZEBRA CARTRIDGE AND EXTENSIVE FLUSHING OF THE HA-HS EXTRACTION COLUMN SYSTEM FOR REMOVAL OF PLASTIC PARTICLES WERE COMPLETED EARLY IN THE MONTH. THE PLANT RESUMED PLUTONIUM PROCESSING NOVEMBER 6 AND OPERATED CONTINUOUSLY UNTIL NOVEMBER 26, WHEN OPERATIONS WERE SUSPENDED FOR PALM RECOVERY.

ALL URANIUM PRODUCT PRODUCED DURING THE MONTH CONTAINED HIGH GAMMA ACTIVITY AS A RESULT OF POOR DECONTAMINATION EXPERIENCE IN THE HA COLUMN. THE MAJORITY OF THIS MATERIAL WAS BROUGHT WITHIN SPECIFICATIONS BY PROCESSING THROUGH THE SILICA-GEL FACILITY. SEVERAL BATCHES GENERATED PRIOR TO SHUTDOWN WERE SEGREGATED FOR REWORK THROUGH THE FINAL URANIUM CYCLE.

APPROXIMATELY 50% OF THE PLUTONIUM PRODUCED WAS NOT WITHIN SPECIFICATIONS DESPITE ANION EXCHANGE PROCESSING. EIGHT KG OF THIS MATERIAL WAS SENT TO RECUPLEX FOR FURTHER PROCESSING; THE REMAINDER WAS EITHER BLENDED OR RECYCLED.

WASTE LOSSES TOTALLED 0.28% OF THE PLUTONIUM THROUGHPUT AND 0.10% OF THE URANIUM THROUGHPUT.

IODINE EMISSIONS AVERAGED 0.56 CURIES PER DAY.

1/ AT TIME OF RUPTURE.

2/ "SECRET" DOCUMENT HAN-73696, JOHNSON/TRAVIS, DATED OCTOBER 23, 1959, SUBJECT "HAPO PRODUCTION FORECAST."

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SEPARATIONS (CONT'D)

REDOX - THE PLANT PROCESSED 76.4 TONS OF 94 METAL. OPERATION WAS ON A FIVE-DAY-PER-WEEK BASIS EXCEPT THAT THE DISSOLVERS OPERATED CONTINUOUSLY. BOTH PRODUCTS WERE WITHIN SPECIFICATIONS.

THE EXTRACTION SYSTEM WAS OPERATED DURING THE ENTIRE MONTH WITH THE PRECYCLE ON AN ACID FLOW-SHEET TO TEST THE PROPOSED RECYCLE SCHEME FOR NEPTUNIUM RECOVERY. THE NEPTUNIUM COLLECTED IN THE LAST WEEK OF OCTOBER WAS INCLUDED IN THE TOTAL OF ABOUT 200 GRAMS ACCUMULATED FROM THE 90 TONS OF ENRICHED URANIUM PROCESSED THROUGH THE END OF NOVEMBER. DURING THE ACCUMULATION PERIOD, NO NEPTUNIUM WAS DETECTED IN THE HAW SALT WASTE STREAM. A SALT WASTE BATCH CONTAINING SOME NEPTUNIUM ALONG WITH PLUTONIUM AND URANIUM WAS PROCESSED EARLY IN THE MONTH IN AN ACID-SALT WASTE REWORK FLOWSHEET. THE NEPTUNIUM RECOVERY WAS EXCELLENT, DEMONSTRATING THAT ALL THREE PRODUCTS CAN BE EASILY RECOVERED FROM THE SALT WASTE STREAM. AT THE END OF THE MONTH, PREPARATIONS WERE BEING MADE TO TEST THE PROPOSED FLOWSHEET FOR REMOVAL OF THE NEPTUNIUM FROM THE SYSTEM DURING THE FIRST WEEK OF DECEMBER.

WASTE LOSSES WERE VERY LOW FOR THE MONTH, BEING 0.11% FOR URANIUM AND 0.30% FOR PLUTONIUM.

THE TOTAL IODINE EMISSION FROM REDOX THIS MONTH WAS 13.057 CURIES, FOR A DAILY AVERAGE OF 0.435.

UO₂ - PLANT PRODUCTION OF NORMAL UO₂ TOTALLED ONLY 452 TONS, 90.4% OF FORECAST, BECAUSE OF LOW URA FEED MATERIAL INVENTORIES. PRODUCTION OF ENRICHED UO₂ TOTALLED 95.6 TONS, 101.7% OF FORECAST. ALL SHIPPING SCHEDULES WERE MET.

FOR EACH TON OF URANIUM PROCESSED, 1,175 POUNDS OF NITRIC ACID WAS RECOVERED AT AN AVERAGE CONCENTRATION OF 47%. THIS HIGH RECOVERY, 111% OF THEORETICAL, MAY BE DUE TO AN INCREASE IN FREE ACID IN THE FEED.

DURING THE MONTH, K CALCINER WAS SHUT DOWN WHEN A BLADE BOLT FAILED AND DAMAGED TWO THERMOWELLS AND FEED POINTS. REPAIRS WERE MADE, AND THE UNIT WAS PLACED BACK ON LINE.

RESEARCH AND DEVELOPMENT

REACTOR PIGTAIL CORROSION - TWO OF THE NEWER REAR FACE CONNECTORS THAT FAILED IN SERVICE HAVE BEEN EXAMINED METALLOGRAPHICALLY. ONE OF THESE EXAMINED HAD BEEN IN SERVICE ABOUT TEN MONTHS ON H REACTOR, WHILE THE OTHER FAILED IN ABOUT SIX WEEKS ON F REACTOR. BOTH OF THESE STAINLESS STEEL CONNECTORS SHOWED CRACKING SIMILAR TO THE CRACKS FOUND ON H REACTOR PIGTAILS PREVIOUSLY. THE H REACTOR SAMPLE HAD BEEN BADLY SENSITIZED AND SHOWED SOME INTERGRANULAR CRACKING AS WELL AS THE TYPICAL TRANSGRANULAR CRACKING AS WELL AS THE TYPICAL TRANSGRANULAR STRESS CORROSION CRACKS. SIMILAR CRACKING WAS ALSO OBSERVED IN GAMMA SAMPLE LINES WHICH FAILED ON THE REAR FACE OF H REACTOR RECENTLY. THESE LINES HAD BEEN IN SERVICE FOR SEVERAL YEARS. THE WETNESS OF THE REAR FACE IS INDICATED AS A SIGNIFICANT CONTRIBUTOR TO THE PROBLEM BASED ON CURRENT DATA.

NEPTUNIUM FABRICATION - FIFTY-SIX NEPTUNIUM OXIDE ELEMENTS WERE SHIPPED TO SAVANNAH RIVER PLANT IN NOVEMBER AS PART OF CAMPAIGN VII. NEPTUNIUM OXIDE WAS RECEIVED FROM SAVANNAH RIVER FOR FABRICATION OF NINE ELEMENTS IN CAMPAIGN VIII, AND HANFORD IS EXPECTED TO SUPPLY MATERIAL FROM PUREX FOR 25 ADDITIONAL ELEMENTS.

PLANT ACQUISITION AND CONSTRUCTIONPROJECT AND DESIGN STUDIES

CG-789, ADDITIONAL FIRE PROTECTION - 234-5 BUILDING - DETAILED DESIGN IS 99% COMPLETE. THE PHASE II BID PACKAGE (ELECTRICAL, FIRE DETECTION, ARCHITECTURAL) IS TO BE READY EARLY IN DECEMBER.

CGI-791, REACTOR CONFINEMENT -

DESIGN COMPLETION PHASE I (FOG SPRAY)	99%
PHASE II (FILTERS)	100%
PHASE III (VENTILATION MODIFICATIONS AND TIE-INS)	92%
TOTAL	96%

REMAINING DESIGN CONSISTS OF (PHASE I) SPRAY SHIELDS FOR REARFACE INSTRUMENTATION AND (PHASE III) PRINCIPALLY CHANGES TO VENTILATION AIR INTAKES AND INITIAL HEATING OF VENTILATION AIR.

THE A. D. LITTLE COMPANY HAS CONCLUDED HALOGEN REMOVAL TESTING WITH SILVER-COATED COPPER UNITS. INTERIM RESULTS INDICATE POORER PERFORMANCE THAN EXPECTED. TEST OF CHARCOAL UNITS HAS BEEN STARTED.

THE DI-OCTYL PHTHALATE TEST UNITS HAVE BEEN INSTALLED, AND CALIBRATION HAS BEEN STARTED.

ORNL PERSONNEL ARE PREPARING A REPORT CONCERNING RESULTS OF TESTS PERFORMED ON BURNING FUEL ELEMENTS.

PHASE I - THE FOG SPRAY SYSTEMS ARE MANUALLY OPERABLE IN ALL AREAS. ACCEPTANCE TESTING OF THE FOG SPRAY SYSTEMS WAS COMPLETED IN 105-KW ON NOVEMBER 30, 1959, 105-C ON NOVEMBER 9, 1959, AND IN 105-DR ON NOVEMBER 13, 1959. ALL OTHER SYSTEMS ARE READY FOR FINAL TEST.

PHASE II-B - ON NOVEMBER 4, 1959, R. B. MILES CONSTRUCTION COMPANY WAS AWARDED A CONTRACT FOR \$1,698,866. EXCAVATION WAS STARTED AT 100-F AREA ON NOVEMBER 24, 1959.

CGC-811, ADDITIONAL PLUTONIUM FABRICATION FACILITIES - 234-5 BUILDING - DETAILED DESIGN IS 77% COMPLETE. THE BID PACKAGE FOR THE LUMP-SUM PORTION OF THE WORK HAS BEEN COMPLETED AND BIDS SOLICITED FOR OPENING ON DECEMBER 17.

CAI-816, NEW PRODUCTION REACTOR

DESIGN:	SCHEDULED ^{1/}	ACTUAL
TITLE I - GE	100	98
BURNS & ROE	82	65
TITLE II - GE	28	28.1
BURNS & ROE	32	30
DESIGN MANPOWER - GE	-	167
BURNS & ROE	-	107

HEAT SYSTEM SCOPE DESIGN IS CONTINUING TO BE EXPEDITED BY PROJECT REPRESENTATIVE VISITS TO THE A-E'S OFFICE.

THE FOLLOWING DESIGN CRITERIA WERE APPROVED DURING THE MONTH:

1. PRIMARY COOLANT SYSTEM.
2. PRIMARY AND MISCELLANEOUS WATER SYSTEM.
3. OUTLET TEMPERATURE MONITOR SYSTEM.
4. CONFINEMENT SYSTEM INSTRUMENTATION.
5. REACTOR FLOW AND TEMPERATURE DATA LOGGING.
6. CENTRAL DATA LOGGING.

FORTY-ONE OUT OF FORTY-TWO GE DESIGN CRITERIA HAVE BEEN APPROVED.

^{1/} REVISED SCHEDULE FORWARDED TO WASHINGTON NOVEMBER 20, 1959.

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PROJECT AND DESIGN STUDIES (CONT'D)

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

DEVELOPMENT AND TESTING:

THE FINAL PROCESS TUBE RUPTURE TEST WAS COMPLETED DURING THE MONTH. IT WAS RUN AT FULL NPR COOLANT TEMPERATURE. PRESSURE FAILURE OF HEATER ELEMENTS LIMITED GRAPHITE TEMPERATURES TO LESS THAN THE MAXIMUM EXPECTED, BUT THEY WERE WELL ABOVE THE ESTIMATED AVERAGE FOR THE NPR SUPPORT PIERS. IT HAS BEEN CONCLUDED THAT NO ADDITIONAL TESTS ARE REQUIRED IN SUPPORT OF NPR MODERATOR DESIGN.

EFFORTS ARE BEING CONCENTRATED ON TESTING VARIOUS GASKETED CONNECTOR JOINTS UNDER CONDITIONS OF FLEXING. SLIGHT LEAKAGE HAS BEEN DETECTED IN FOUR CONSECUTIVE TESTS OF MARMAN CONOSEAL JOINTS SUBJECTED TO SIMULTANEOUS THERMAL CYCLING AND FLEXURE. TEST CONDITIONS WERE 1625 PSI, THERMAL CYCLING FROM 600°F TO 480°F, FLEXURE AT 6500 IN-LBS. AND 13,000 IN-LBS., AND 175, 222, 240, AND 286 CYCLES. THE NUMBER AND SIZE OF LEAKS IN CONNECTOR JOINTS THAT CAN BE TOLERATED IS NOT FINALLY ESTABLISHED. DEVELOPMENT OF TECHNIQUES FOR FABRICATING AND MAINTAINING ALL-WELDED CONNECTORS WAS ACCELERATED AS A PARALLEL EFFORT, SHOULD EFFORTS TO OBTAIN A SUITABLE GASKETED JOINT DESIGN BE UNSUCCESSFUL.

PRELIMINARY DATA HAVE BEEN OBTAINED FOR TUBE-IN-TUBE FUEL ELEMENTS IN A ZIRCONIUM TUBE AS FOLLOWS: PRESSURE DROP VERSUS COLD WATER FLOW, FLUSHING FLOW RATES (122 GPM FOR 12-INCH ELEMENTS TO 174 GPM FOR 3-FOOT ELEMENTS), CHARGING FORCES (9 TO 12 POUNDS PER FOOT OF LENGTH), AND EFFECTS OF ELEMENTS ON PROCESS TUBES.

FUEL ELEMENT DROP TESTS WERE CONDUCTED ON POSSIBLE DESIGNS FOR DISCHARGE CHUTE MATTRESS PADS. OF THE COMBINATIONS TESTED, A HEAVY RUBBER AND BELTING PAD BACKED WITH A WAFFLE-LIKE RUBBER GRID PRODUCED THE MOST SATISFACTORY RESULTS.

ROUGH PROTOTYPES OF HYDRAULICALLY ACTUATED BUTTERFLY AND DIVERSION VALVES WITH NO EXTERNAL SEALS HAVE BEEN FABRICATED AND ARE UNDER TEST. THIS IS A BACKUP PROGRAM FOR A VENDOR-DESIGNED CONCEPT NOW IN THE EARLY STAGES OF PROCUREMENT.

THE SIXTEEN-TUBE, GROSS-GAMMA, RUPTURE-DETECTION SYSTEM AT C REACTOR HAS OPERATED WITHOUT FAILURE FOR EIGHT MONTHS. THIS SYSTEM UTILIZES GM TUBES IN A PULSE COUNTING CIRCUIT. COMPONENTS HAVE BEEN ORDERED TO EXPAND THE SYSTEM TO 100 POINTS. IN A PARALLEL RUPTURE DETECTION DEVELOPMENT, MANUFACTURING DEFECTS WERE FOUND IN THE OHMART NUCLEAR BATTERY SYSTEM AND THESE ARE BEING CORRECTED.

AN A. C. RUGE CLAMP-ON RESISTANCE TEMPERATURE DETECTOR PERFORMED SATISFACTORILY DURING 140 TEMPERATURE CYCLES.

WORK ON PILOT ORDERS FOR ZIRCALOY PROCESS TUBES IS UNDER WAY AT ALL THREE VENDORS. HARVEY ALUMINUM HAS COMPLETED ONE TUBE THROUGH FINAL DRAW AND A SECOND TUBE UP TO FINAL DRAW. THE FIRST TUBE HAS AN EXCELLENT OUTSIDE SURFACE, BUT THE INSIDE SURFACE DOES NOT MEET SPECIFICATIONS FOR SMOOTHNESS. IT HAS NOT BEEN DETERMINED WHETHER THIS IS DUE TO LACK OF CLEANING OR TO DEFECTS IN THE METAL ITSELF.

FEDERAL POWER COMMISSION STUDY: HANFORD REPRESENTATIVES ^{ARE} REVIEWING THE DRAFT OF THE CONVERSION STUDY BEING PREPARED BY BURNS AND ROE.

CONTRACT AT(45-1)-1455, KAISER ENGINEERS - THE FOLLOWING CONTRACT ACTIONS WERE STARTED BY KAISER ENGINEERS SUBCONTRACTORS:

GEORGE A. GRANT - STARTED WORK ON THE 181 ADMINISTRATION BUILDING ON NOVEMBER 30, 1959. CONTRACT AMOUNT, \$439,850.

GEORGE LEWIS CONSTRUCTION COMPANY - STARTED SITE GRADING OF THE CONSTRUCTION AREA ON NOVEMBER 4, 1959. CONTRACT AMOUNT, \$29,800.

JENSEN-RASMUSSEN COMPANY AND B-E-C-K CONSTRUCTORS - WAS AWARDED A CONTRACT FOR THE SUB-STRUCTURE OF THE RIVER PUMP HOUSE ON NOVEMBER 30, 1959. CONTRACT AMOUNT, \$787,163.

TULLAR POWER CONSTRUCTION COMPANY - WAS AWARDED A CONTRACT THIS MONTH BY KAISER ENGINEERS FOR THE INSTALLATION OF DIRECT AND BURIAL TELEPHONE CABLE (PROJECT CAE-852). CONTRACT AMOUNT, \$15,000.

CAH-822, PRESSURIZED GAS-COOLED LOOP FACILITY - THE STRUTHERS WELLS COMPANY IS PROCEEDING WITH DESIGN AND FABRICATION OF THE OUT-OF-PILE PORTION OF THE LOOP. GENERAL ELECTRIC IS 39% COMPLETE ON DETAILED DESIGN FOR THE IN-PILE PORTION.

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PROJECT AND DESIGN STUDIES (CONT'D)

CGC-830, PLANT MODIFICATION FOR REPROCESSING NONPRODUCTION REACTOR FUELS - DEFINITIVE SCOPE IS 45% COMPLETE. THE PROJECT PROPOSAL HAS BEEN RECEIVED FOR THE COMPLETE PROJECT.

CAF-847, NEW FUEL CLADDING FACILITY - DETAILED DESIGN IS 10% COMPLETE. DURING THE MONTH, DETAILED DESIGN WAS UNDER WAY ON BUILDING HEATING AND VENTILATING, AND DESIGN CRITERIA ARE BEING REVIEWED FOR AEC APPROVAL ON THE COMPONENT CLEANING FACILITY AND BILLET ASSEMBLY EQUIPMENT.

CONTRACT AT(45-1)-1487, CENTRAL HEATING AND PLUMBING COMPANY - WORK ON OUTSIDE UTILITIES WAS STARTED ON NOVEMBER 13, 1959.

CAH-870, FACILITIES FOR RECOVERY OF RADIOACTIVE CERIUM - 325 BUILDING - PRELIMINARY DESIGN IS ESSENTIALLY COMPLETE. DETAILED DESIGN WAS STARTED IN NOVEMBER. DESIGN COMPLETION IS SCHEDULED FOR FEBRUARY 15, 1960.

CAC-880, PLUTONIUM RECLAMATION FACILITY - Z PLANT - A PROPOSAL HAS BEEN RECEIVED REQUESTING AUTHORITY FOR PRELIMINARY DESIGN.

AEC-175, NEW CENTRAL INDUSTRIAL FIRE STATION - FINAL DRAWINGS AND SPECIFICATIONS HAVE BEEN SUBMITTED.

AEC-177, FIRE PROTECTION FOR 713 BUILDING - A DIRECTIVE HAS BEEN ISSUED TO AUTHORIZE ADDITIONAL FIRE PROTECTION FOR THE IBM ESTABLISHMENT IN THE 713 BUILDING. DESIGN FOR THE IBM TAPE VAULT WAS MADE AVAILABLE TO THE CONSTRUCTION CONTRACTOR.

PLANT CONSTRUCTION

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

PROJECT	PROJECT PROPOSAL NUMBER	MAJOR PROJECTS				DESIGN % ACTUAL COMPL.	PRESENT WORKING ESTIMATE (THOUSANDS)
		ACTUAL STARTING DATE	SCHED. COMPL. DATE	CONSTRUCTION			
				COMPLETION			
				% SCHED.	% ACTUAL		
PRTR	AEC-167	3-6-58	8-30-60	64	54	100	\$12,750
RMC BUTTON LINE, 234-5	CG-734	2-18-58	7-15-60	98	98	100	1,345
PU. FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	85	85	95	4,230 1/
HIGH LEVEL RADIOCHEM. FACILITY	CA-749	8-14-58	1-1-60	98	99	100	960
MET. DEV. FAC., 306 BLDG. ADDITION	CA-744	3-20-59	9-1-60	28	23	100	2,685
REACTOR CONFINEMENT	CGI-791	3-31-59	3-15-61	15	16	96	4,200 2/
306 BLDG. PILOT PLANT MODIF.	CGF-810	1-29-59	4-1-60	14	14	100	755
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	36	41	100	1,000
ADD'L PU. FAB. FAC., 234-5 BLDG.	CGC-811	8-24-59	7-1-61	1	1	77	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	0.2	0.2	30	145,000

1/ INCLUDES \$230,000 OF TRANSFERRED CAPITAL EQUIPMENT.

2/ ON CURRENTLY AUTHORIZED WORK. TOTAL PROJECT ESTIMATE NOT YET FIRM.

CONTRACT AT(45-1)-1433, PROJECT CA-747, PLUTONIUM FABRICATION PILOT PLANT, PHASE III, GEORGE A. GRANT, INC. WORK ON THIS CONTRACT WAS STOPPED ON NOVEMBER 15, 1959. THIS ACTION WAS TAKEN DUE TO THE LATE DELIVERY AND SUBSEQUENT MODIFICATION REQUIRED TO THE SINTERING FURNACE. THE CONTRACT WAS 97% COMPLETE WHEN THE WORK WAS STOPPED. THE REMAINING PORTION OF THE WORK WILL BE PERFORMED BY CPFF FORCES.

CONTRACT AT(45-1)-1465, PROJECT CAI-831, FENCE AND BADGE HOUSE RELOCATION, 100-F, HOWARD S. WRIGHT CONSTRUCTION COMPANY - THE CONTRACT WAS COMPLETED AND BENEFICIAL USE BEGAN ON NOVEMBER 23, 1959.

PROJECT CG-558, REACTOR PLANT MODIFICATIONS FOR INCREASED PRODUCTION, PHASE I - PUMPS NO. 5 IN 190-D, NO. 3 IN 190-DR, AND NO. 3 IN 190-H ARE NOW HAVING REPLACEMENT ROTATING ELEMENTS AND VANES INSTALLED. ALL REQUIRED REALIGNMENT OF BEARINGS.

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DOCUMENT NO. HAN-74058

PLANT CONSTRUCTION (CONT'D)

CONTRACT AT(45-1)-1410, PROJECT AEC-167, PLUTONIUM RECYCLE TEST REACTOR, PHASE III, SHAW & ESTES - THE BIOLOGICAL SHIELD FORMS, PENETRATIONS, PIPING, AND MOAT SECTIONS ARE ESSENTIALLY COMPLETE WITH THE EXCEPTION OF REPAIR OF REJECTED WELDS IN THE PIPING SYSTEMS. INSTALLATION OF TEMPORARY STEEL PLATE COVERS IS IN PROGRESS IN PREPARATION FOR THE HELIUM LEAK TESTS. ELECTRICAL WORK IS 65% COMPLETE.

PROCUREMENT

THE ATOMIC ENERGY COMMISSION APPROVED 21 AWARDS MADE BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$380,297.51.

THE ATOMIC ENERGY COMMISSION PLACED 274 PURCHASE ORDERS IN THE AMOUNT OF \$1,325,063.33.

AMONG THE LARGER AWARDS WAS AN ORDER PLACED WITH PARAMOUNT MANUFACTURING COMPANY, SEATTLE, WASHINGTON, FOR TWO HOODS IN THE AMOUNT OF \$36,923.00 TO BE USED IN PROJECT CGC-811.

A CONTRACT HAS BEEN ENTERED INTO WITH THE WOLVERINE TUBE COMPANY IN THE AMOUNT OF \$442,330.00, FOR THE PURCHASE OF 7,000 TUBES FOR THE PRTR FUEL ELEMENT.

NPR INFORMATION CENTER

THE NPR INFORMATION CENTER, WHICH WAS OPENED OCTOBER 5, 1959, IN THE 703 BUILDING AT RICHLAND IS BEING CONSIDERABLY ENLARGED TO PROVIDE SPACE FOR ADDITIONAL DISPLAY MATERIAL THAT SOON WILL BE AVAILABLE. DURING THIS TRANSITION PERIOD FROM A SINGLE ROOM TO MUCH LARGER QUARTERS THERE HAVE BEEN FEW VISITS BY REPRESENTATIVES OF PRIVATE INDUSTRY. HOWEVER, HANFORD PERSONNEL AND AEC VISITORS FROM OFF-SITE HAVE MADE CONTINUAL USE OF THE ENGINEERING DRAWINGS AND REACTOR COMPONENTS NOW AVAILABLE FOR INSPECTION AND STUDY. AN EXHIBIT ON GRAPHITE STACKING WAS ADDED DURING THE MONTH.

[REDACTED]

TO: Director, Division of Production
USAEC, Washington 25, D. C.

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

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:HRE

DEC 21 1959

Enclosed herewith is Part II ("Official Use Only" portion)
of subject report for the month of NOV, 1959.
The "Secret" portion, Part I, is forwarded as a separate
report.

Enclosure:
Monthly Status and Progress Report, Part II

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

NOVEMBER 1959

PART II

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

NOVEMBER 1959

PART II

C O N T E N T S

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

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COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR NOVEMBER 1959:

	<u>NOVEMBER 1</u>	<u>NOVEMBER 30</u>
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	82	46
1. TOTAL HOUSES OCCUPIED	46	18
2. TOTAL HOUSES UNOCCUPIED	36	28
(A TOTAL OF 3,786 HOUSES AND 996 DUPLEXES SOLD - 5,778 UNITS.)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	128	133
2. TOTAL APARTMENTS UNOCCUPIED	6	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	149	134	397	88	768
VACANT	131	86	3	12	232

THE SPOKANE OFFICE OF FHA ADVISED HOO THAT A CONTRACT HAS BEEN LET FOR THE REHABILITATION OF THE COLUMBIA HEIGHTS APARTMENTS. THEY ALSO SAID THAT THE PLAT FOR THE 280 HOUSES HAS BEEN PRESENTED TO THE CITY PLANNING COMMISSION FOR APPROVAL PRIOR TO RECORDING.

DISPOSAL

HHFA PUBLISHED AWARDS ON 48 VACANT RESIDENTIAL, COMMERCIAL AND INDUSTRIAL PROPERTIES.

PRIORITY APPLICATIONS WERE RECEIVED ON ALL 12 COMMERCIAL PROPERTIES OFFERED ON NOVEMBER 19 (CERTIFIED TO HHFA ON DECEMBER 1).

THE HHFA OFFERED TEN COMMERCIAL PROPERTIES AND TWO NONCOMMERCIAL PROPERTIES ON NOVEMBER 23.

THE REPORT OF SALES FOR THE MONTH, ENDING NOVEMBER 30, 1959, 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	6	3,786	2	1
DUPLEX HOUSES	1,018	15	996	22	17
COMMERCIALS	128	12	33	95	14
CHURCHES	6	0	6	0	0
NON-PROFIT	7	1	2	5	1
RESIDENTIAL LOTS	97	0	97	0	0
DORMITORY SITES	2	0	0	2	0
WHERRY SITES	5	0	0	5	0
<u>BID PROPERTIES</u>					
APARTMENTS	17	0	0	17	0
RESIDENTIAL LOTS	108	4	52	56	7
RESIDENTIAL TRACTS	86	5	50	36	14
COMMERCIALS	24	1	5	19	0
INDUSTRIALS	37	3	11	26	8
FLOOD PLANS	39	1	16	23	16
TOTAL	<u>5,362</u>	<u>48</u>	<u>5,054</u>	<u>308</u>	<u>78</u>

[REDACTED]

COMMUNITY OPERATIONS (CONT'D)

MUNICIPAL

A CHECK IN THE AMOUNT OF \$18,658.07 WAS SENT TO THE CITY OF RICHLAND TO PAY FOR THE LAST GARBAGE TRUCK AND CIVIC CENTER LANDSCAPING. THIS BRINGS THE TOTAL PAID FOR GARBAGE TRUCKS TO \$53,229.87. THE LANDSCAPING WAS \$5,042.96, EXCLUSIVE OF DESIGN AND SOME PRELIMINARY CONSTRUCTION IN CONNECTION WITH THE PARKING LOT.

IT WAS NOT NECESSARY TO FURNISH OPERATING FUNDS TO THE CITY OF RICHLAND FOR THE MONTH OF NOVEMBER, AND PRESENT INDICATIONS ARE THAT THERE WILL BE NO NEED FOR FUNDS FOR THE MONTH OF DECEMBER.

THE ATOMIC MUSEUM GROUP HAS INCORPORATED, WITH THE INTENTION OF ESTABLISHING A MUSEUM IN RICHLAND.

A PAYMENT OF \$76,171.86 WAS MADE TO THE RICHLAND SCHOOL DISTRICT FOR OPERATION OF THE FIRST MONTH OF THE CURRENT SCHOOL YEAR.

REAL ESTATE

THE WAHLUKE SLOPE COMMISSIONERS SUBMITTED A DETAILED VALUATION REPORT TO JUDGE LINDBERG ON THE WAHLUKE SLOPE LAND CASES, WHICH ANSWERED MOST OF THE JUSTICE DEPARTMENT'S LEGAL OBJECTIONS TO THE PREVIOUS REPORT. JUDGE LINDBERG HAS GIVEN THE JUSTICE DEPARTMENT UNTIL DECEMBER 4 TO FILE A PROTEST ON THE REPORT, AND HE WILL RULE ON IT ON DECEMBER 7. THE WASHINGTON OFFICE OF THE DEPARTMENT OF JUSTICE HAS INSTRUCTED ITS YAKIMA OFFICE TO MOVE TO ABOLISH THE COMMISSION AND GO BACK TO TRIALS. IF JUDGE LINDBERG OVERRULES THE MOTION, JUDGE POWELL WILL APPOINT A SUCCESSOR TO EVAN HALL ON THE COMMISSION.

A REPRESENTATIVE OF HOO ATTENDED A MEETING OF THE RICHLAND CHAMBER OF COMMERCE'S COLD CREEK ROAD COMMITTEE WITH SENATOR WARREN MAGNUSON. SENATOR MAGNUSON ADVISED THE COMMITTEE TO GET IN TOUCH WITH THE STATE HIGHWAY COMMISSION AND URGE THE COMMISSION TO TRY TO GET THE BUREAU OF PUBLIC ROADS TO CHANGE THE PROPOSED INTERSTATE HIGHWAY ROUTE FROM THE ELLENSBURG CANYON TO VANTAGE AND COLD CREEK.

THE RICHLAND SCHOOL DISTRICT CONVEYED THE RICHLAND CEMETERY TO THE RICHLAND CEMETERY ASSOCIATION ON NOVEMBER 20, 1959, AND ON NOVEMBER 23 TRANSFERRED THE TRUST FUND OF APPROXIMATELY \$26,000 FOR PERPETUAL CARE OF THE CEMETERY.

PERSONNEL (ON-SITE)

	<u>NOVEMBER 1</u>	<u>NOVEMBER 30</u>
ATOMIC ENERGY COMMISSION	279	279
GENERAL ELECTRIC COMPANY	7,864	7,839
TOTAL CONSTRUCTION PERSONNEL	<u>792</u>	<u>852</u>
TOTAL PROJECT PERSONNEL	<u>8,935</u>	<u>8,970</u>

KEY PERSONNEL CHANGES:

DONALD W. GOSSARD PROMOTED TO CHIEF, COMMUNICATIONS, SHIPMENT, AND DISASTER PLANNING BRANCH, SECURITY DIVISION - GS-13.

NED D. STURGIS PROMOTED TO GS-13 AS CHIEF, PERSONNEL SECURITY BRANCH, SECURITY DIVISION.

PERRY K. BUSHNELL PROMOTED TO GS-14 AS CHIEF, ACCOUNTING BRANCH, FINANCE DIVISION.

IRA D. HARTMAN PROMOTED TO DEPUTY DIRECTOR, BUDGET DIVISION, GS-14.

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DATE
FILMED
8/3/92