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TO: Director, Division of Production
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Office, USAEC, Richland, Washington

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

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MONTHLY STATUS AND PROGRESS REPORT

JULY 1959

PART I

[REDACTED]

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

JULY 1959

PART I

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HIGHLIGHT STATEMENT - JULY 1959

OPERATIONS

CANNED FUEL ELEMENT PRODUCTION TOTALLED 513 TONS, INCLUDING 65 TONS OF SOLID AND 368 TONS OF I&E NORMAL URANIUM AND 80 TONS OF I&E 94 METAL. THE 513-TON TOTAL IS 96.8% OF FORECAST. PRODUCTION FELL SHORT OF FORECAST PRIMARILY BECAUSE OF THE SHORT SUPPLY OF FEED MATERIAL AND THE SLIGHTLY LESS-THAN-FORECAST CANNING YIELD.

YIELDS WERE 87% FOR SOLID AND 81% FOR I&E NORMAL, AND 85% FOR 94-METAL PIECES. THE CANNING LINE TIME-OPERATED EFFICIENCY WAS 92.8%.

IN-REACTOR PRODUCTION TOTALLED 106.4% OF FORECAST. THIS PRODUCTION WAS EXCEEDED ONLY BY THE RECORD FIGURE FOR FEBRUARY 1959, AND WAS ONLY 0.7% BELOW THAT RECORD. THE AVERAGE TIME-OPERATED EFFICIENCY WAS 84.8% AS COMPARED WITH 79% FORECAST. A NEW MAXIMUM POWER LEVEL WAS ESTABLISHED AT H REACTOR. NEW MONTHLY PRODUCTION RECORDS WERE ESTABLISHED AT B AND C REACTORS. DURING THE MONTH, THERE WERE SEVEN NORMAL-URANIUM FUEL ELEMENT FAILURES, INCLUDING SIX I&E PIECES AND ONE NPR PROTOTYPE PIECE (IN KER LOOP 1). IN ADDITION, TWO C-METAL FUEL ELEMENT FAILURES OCCURRED IN THE KER LOOP 3.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 69.2% OF FORECAST, WITH 79.0% OF THE TOTAL PRODUCED BY PUREX AND 21.0% BY REDOX. PRODUCTION WAS BELOW FORECAST BECAUSE OF PROCESSING DIFFICULTIES AT THE PUREX PLANT.

PRODUCTION OF NORMAL UO_3 TOTALLED 401 TONS, 100.3% OF FORECAST; PRODUCTION OF ENRICHED UO_3 TOTALLED 46.5 TONS, 93.0% OF FORECAST.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - TITLE II DESIGN IS 16% COMPLETE VS. 17% SCHEDULED. DESIGN MANPOWER - GENERAL ELECTRIC COMPANY 77; BURNS & ROE 81.

SUBCONTRACTS FOR WATER LINE AND ACCESS ROADS WERE LET DURING MONTH. (SEE PART I, PAGES 9, 10 AND 11.)

CONFINEMENT - DESIGN IS 96% COMPLETE, WITH COMPLETION EXPECTED BY SEPTEMBER 1. (SEE PART I, PAGE 9.)

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 34% COMPLETE VS. 34% SCHEDULED. (SEE PART I, PAGE 10.)

PLUTONIUM FABRICATION PILOT PLANT - DESIGN IS 93% COMPLETE AND CONSTRUCTION IS 75% COMPLETE VS. 70% SCHEDULED. (SEE PART I, PAGE 10.)

COMMUNITY

DISPOSAL - 4673 OF 4806 HOUSES HAVE BEEN SOLD AND AN ADDITIONAL 106 GOOD FAITH DEPOSITS PLACED. (SEE PART II, PAGE 4.)

LABOR RELATIONS

LOCAL UNION PICKETING IN PROTEST OVER EMPLOYMENT OF NON-UNION WORKMEN BY A LUMP-SUM CONTRACTOR SOMEWHAT CURTAILED CONSTRUCTION DURING MONTH. (SEE PART II, PAGE 4.)

PLANT OPERATIONS

METAL PREPARATION

CANNING - NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALLED 513 TONS, 96.8% OF FORECAST. ^{1/} THE TOTAL CONSISTED OF:

NORMAL URANIUM		
SOLID	65 TONS	87.0% YIELD
I&E	368 TONS ^{2/}	81.0% YIELD
94 METAL		
I&E	80 TONS	85.0% YIELD

THE CANNING LINE TIME-OPERATED EFFICIENCY WAS 92.8%, VERY SLIGHTLY LESS THAN THE EXPECTED 94%. THIS AND A DELAY IN THE STARTUP OF A NINTH CANNING LINE WERE THE PRINCIPAL FACTORS CAUSING THE PRODUCTION TO FALL SLIGHTLY BELOW FORECAST. THE PLANNED STARTUP OF THE NINTH CANNING LINE IN JULY WAS DELAYED PRIMARILY BECAUSE OF A GENERAL SHORTAGE OF FEED MATERIAL. THERE WERE EIGHT CANNING-LINE SHIFTS PER DAY OPERATED ON A FIVE-DAY-PER-WEEK BASIS.

AT MONTH END, THE TOTAL INVENTORY OF CANNED FUEL ELEMENTS WAS APPROXIMATELY 750 TONS AND VARIED BY TYPE FROM APPROXIMATELY ONE MONTH'S TO 2½ MONTHS' SUPPLY. THE BARE URANIUM INVENTORY TOTALLED APPROXIMATELY 500 TONS AND VARIED BY TYPE FROM APPROXIMATELY 0.3 MONTH'S TO 3.7 MONTHS' SUPPLY. ALTHOUGH THIS BARE URANIUM INVENTORY IS BELOW THE OPTIMUM FIGURE, NORMAL PRODUCTION RUNS WERE GENERALLY POSSIBLE THROUGHOUT THE MONTH BY MAINTAINING CLOSE LIAISON OF DAY-TO-DAY PRODUCTION PLANS WITH NATIONAL LEAD COMPANY SHIPMENTS. THE CANNING YIELDS FOR ALL TYPES OF FUEL ELEMENTS INCREASED OVER THE PREVIOUS MONTH LARGELY AS A RESULT OF FEWER BRAZE LAYER REJECTS.

THERE WERE 14,386 FUEL ELEMENTS RECLAIMED BY MACHINING OFF DEFECTIVE WELDS AND REWELDING.

DURING THE MONTH, I&E PROCESS AND EQUIPMENT DEVELOPMENT EFFORTS WERE MARKEDLY RESTRICTED BY THE SHORTAGE OF BARE METAL CORES AVAILABLE. EMPHASIS WAS PLACED ON ALUMINUM COMPONENT CLEANING TESTS AND OTHER WORK NOT REQUIRING URANIUM CORES.

AUTOCCLAVE FAILURES - THREE NORMAL-URANIUM I&E FUEL ELEMENTS FAILED IN THE AUTOCCLAVES, ALL AS A RESULT OF CLOSURE WEAKNESSES.

SCRAP SHIPMENTS - THERE WERE NO SCRAP SHIPMENTS DURING THE MONTH.

REACTOR OPERATION

DURING JULY, REACTOR PRODUCTION RATES IN TERMS OF INDEX ^{3/} 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)	79.0	91.7	78.0	77.5	76.0	80.2	161.7	159.5	803.7
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	73.8	85.7	71.4	69.9	74.1	79.6	136.9	146.9	738.7
TIME-OPERATED EFFICIENCY	89.1	84.8	90.6	71.8	80.8	100.0	76.0	85.3	84.8

IN-REACTOR PRODUCTION FOR JULY WAS 106.4% OF FORECAST ^{1/}. THIS PRODUCTION WAS EXCEEDED ONLY BY THE RECORD FIGURE FOR FEBRUARY 1959, AND WAS ONLY 0.7% BELOW THAT RECORD. THE AVERAGE TIME-OPERATED EFFICIENCY WAS 84.8% AS COMPARED WITH 79% FORECAST. THE HIGHER-THAN-FORECAST TIME-OPERATED EFFICIENCY RESULTED LARGELY FROM IMPROVED RUPTURE REMOVAL, WATER LEAK, AND SCRAM EXPERIENCE. THE OVER-ALL PRODUCTION EFFICIENCY ^{4/} WAS 84.2%. H REACTOR ESTABLISHED A NEW MAXIMUM POWER LEVEL RECORD OF 80.2% OF INDEX ^{3/} AND ALSO OPERATED CONTINUOUSLY THROUGHOUT THE MONTH. NEW MONTHLY PRODUCTION RECORDS WERE ESTABLISHED AT B AND C REACTORS.

AT MONTH END, EQUILIBRIUM POWER LEVELS WERE LIMITED AT ALL REACTORS EXCEPT D BY FUEL ELEMENT FAILURE CONTROL CONSIDERATIONS. AT D REACTOR, THE POWER LEVEL WAS LIMITED BY THE BULK OUTLET WATER TEMPERATURE.

^{1/} TS DOCUMENT CLVI-695.

^{2/} INCLUDES TWO TONS OF WATER MIXING PIECES.

^{3/} SECRET MEMORANDUM BLOCH/TRAVIS DATED 6/8/59, SUBJECT "REVISION OF INDEX NUMBERS," SYMBOL PRP:EFG.

^{4/} PRODUCTION EFFICIENCY =

SUM OF 8 AVERAGE POWER LEVELS FOR THE MONTH
SUM OF 9 AVERAGE POWER LEVELS WHILE OPERATING

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PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

DURING THE MONTH, THERE WERE SEVEN NORMAL-URANIUM FUEL ELEMENT FAILURES, INCLUDING SIX I&E PIECES (TWO AT B AND ONE EACH AT C, D, DR, AND F) AND ONE NPR PROTOTYPE PIECE (IN KER LOOP 1). THERE WERE ALSO TWO C-METAL FUEL ELEMENT FAILURES (IN KER LOOP 3). THIS BRINGS THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS TO 1,107, INVOLVING 1,127 PIECES (INCLUDING 52 I&E PIECES). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS REMAINS AT 62, INVOLVING 64 PIECES; AND THE CUMULATIVE NUMBER OF DEPLETED-METAL RUPTURE INCIDENTS REMAINS AT 13, INVOLVING 13 PIECES.

FOLLOWING IS A SUMMARY OF JULY REACTOR OUTAGES:

<u>DATE DOWN</u>	<u>DATE UP</u>	<u>OUTAGE HOURS</u>	<u>REMARKS</u>
<u>B REACTOR:</u>			
6-29	7-1	39.6	CONCLUDED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE, FOLLOWING RUPTURE REMOVAL.
7-2	7-3	26.7	REPAIR BREAK IN RAW WATER EXPORT LINE.
7-13	7-15	45.9	HIGH PRESSURE PANELLIT TRIP. REMOVAL OF I&E REGULAR-METAL RUPTURES FROM TUBES 3255 AND 3189. COMPLETED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
7-15	7-15	0.5	BECKMAN TRIP DUE TO A FLUX CONCENTRATION IN THE LOWER REGION.
<u>C REACTOR:</u>			
6-30	7-3	65.6	CONCLUDED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE, FOLLOWING A TRIP CAUSED BY A 151 SUBSTATION POWER FAILURE.
7-3	7-3	3.5	POISON DISCHARGE.
7-20	7-22	50.6	REMOVAL OF A STUCK I&E REGULAR-METAL RUPTURE FROM TUBE 2477. COMPLETED CHARGE-DISCHARGE.
7-22	7-22	6.9	POISON DISCHARGE.
<u>D REACTOR:</u>			
7-6	7-8	39.3	PANELLIT TRIP DUE TO A BROKEN REAR PIGTAIL ON TUBE 3768. PERFORMED LEAK TESTING AND MISCELLANEOUS MAINTENANCE DURING PERIOD OF INSUFFICIENT REACTIVITY. FOUR ADDITIONAL CRACKED REAR PIGTAILS WERE REPLACED, AND ALL OTHER REAR PIGTAILS WERE INSPECTED.
7-12	7-12	0.3	HIGH PRESSURE PANELLIT TRIP.
7-12	7-13	30.9	REMOVAL OF AN I&E REGULAR-METAL RUPTURE FROM TUBE 3091. COMPLETED CHARGE-DISCHARGE.
7-19	7-19	0.2	PANELLIT TRIP DUE TO A LEAKING BOURDON TUBE.
<u>DR REACTOR:</u>			
7-2	7-6	95.8	PERFORMED LEAK TESTING AND CHARGE-DISCHARGE. COMPLETED THE INSTALLATION OF REAR-FACE FOG SPRAY EQUIPMENT.
7-6	7-6	0.9	PANELLIT TRIP.
7-10	7-11	36.1	PANELLIT TRIP. COMPLETED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
7-20	7-21	35.5	REMOVAL OF AN I&E REGULAR-METAL RUPTURE FROM TUBE 3459. PERFORMED LEAK TESTING, AND REPLACED 40 LEAKING PANELLIT GAUGES.
7-28	7-30	41.2	PERFORMED LEAK TESTING. COMPLETED CHARGE-DISCHARGE.
<u>F REACTOR:</u>			
7-20	7-26	142.7	REMOVAL OF AN I&E REGULAR-METAL RUPTURE FROM TUBE 3273. COMPLETED THE INSTALLATION OF 57 PROCESS TUBES AND CHARGE-DISCHARGE.
<u>KE REACTOR:</u>			
7-11	7-14	82.1	REMOVAL OF TWO PRODUCTION TEST C-METAL FUEL ELEMENT FAILURES FROM KER LOOP 3. COMPLETED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
7-15	7-15	4.5	POISON DISCHARGE.
7-19	7-20	30.8	TRIP CAUSED BY A DEFECTIVE TEMPERATURE RELAY ON #1 LOW-LIFT PUMP. COMPLETED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
7-21	7-21	1.0	INSUFFICIENT CONTROL TO EFFECT TURN-AROUND.
7-26	7-27	30.1	HIGH PRESSURE CROSSHEADER TRIP. COMPLETED CHARGE-DISCHARGE.
7-30	STILL DOWN		REMOVAL OF A NPR PROTOTYPE PRODUCTION TEST FUEL ELEMENT FAILURE FROM KER LOOP #1.

PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
<u>KW REACTOR:</u>			
7-8	7-10	66.0	SCHEDULED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
7-11	7-11	5.1	POISON DISCHARGE.
7-26	7-27	35.5	PANELLIT TRIP. COMPLETED CHARGE-DISCHARGE.
7-28	7-28	3.1	POISON DISCHARGE.

FUEL ELEMENT FAILURES - FOLLOWING IS A TABULATION OF JULY FUEL ELEMENT FAILURES:

TABULATION OF RUPTURED URANIUM SLUGS							
TUBE NO.	DATE RUPTURED	TUBE POWER ^{1/}	CONCENTRATION (MWD/T)	ASSIGNED MWD	LOSS DAYS	METAL	TYPE FAILURE
(NORMAL)							
3091-D	7-12	832	817	819	.57	I&E	HOLE FAILURE.
3255-B	7-13	677	670	298	.20	I&E	HOLE FAILURE.
3189-B	7-13	1003	590	298	.20	I&E	HOLE FAILURE.
2477-C	7-20	1037	462	1995	1.16	I&E	HOT SPOT PT-IP-143-A
3459-DR	7-20	961	635	755	.54	I&E	HOT SPOT.
3273-F	7-20	927	728	357	.24	I&E	HOLE FAILURE.
2160-KER LOOP 1	7-30	600	159	6517	2.37		NPR PROTOTYPE PT-IP-250-A
(C METAL)							
3565-KER LOOP 3	7-12	553	663	2053	.74		PT-IP-190-A SUPP. B. TWO PIECES FAILED.

D REACTOR PUMP MOTOR FAILURE - EIGHT-PUMP OPERATION WAS INTERRUPTED FOR TWO DAYS AT 190-D WHEN THE STATOR OF #4 PUMP SHORTED OUT ON JULY 13 DURING STARTUP. THIS IS THE FOURTH SUCH COIL FAILURE IN THESE 4500-HP CG-558 UNITS, THREE HAVING OCCURRED IN THE LAST TWO MONTHS. HOD AND HAPD ARE CO-OPERATING WITH THE VENDOR OF THESE UNITS IN AN INVESTIGATION OF THESE FAILURES.

B AREA EXPORT LINE REPLACEMENT - THIS EMERGENCY MAINTENANCE JOB WAS DELAYED TEMPORARILY BY A WORK STOPPAGE BY CONSTRUCTION CRAFTSMEN BECAUSE OF THE ESTEP PICKET LINE. THE FINAL WORK WHICH CONSISTED OF TIEING IN THE NEW LINE TO EXISTING PIPING AT FOUR POINTS AND BLANKING OFF ONE EXISTING LINE HAS COMPLETED AUGUST 7.

REACTOR PHYSICS - REASONABLY UNRESTRICTED EQUILIBRIUM SPLINE USAGE WAS RESUMED AT D AND KW REACTORS WITH THE ARRIVAL OF SOLID SPLINES. IMPROVED FLATTENING EFFICIENCY RESULTED IMMEDIATELY.

CHARGING OF SPIKE ENRICHMENT WITHIN THE FLATTENED ZONE HAS BEEN INITIATED AT NEARLY ALL THE OLDER REACTORS. CENTRAL ENRICHMENT IS BECOMING NECESSARY TO MAINTAIN HIGH FLATTENING EFFICIENCY AND ADEQUATE REACTIVITY CONTROL DURING INTERVALS OF LOW CENTRAL RESIDUAL EXPOSURE, ESPECIALLY WITH PLANNED CHARGING OF WATER MIXER SLUGS IN ALL REACTORS.

THE FLATTENING EFFICIENCY AS MEASURED BY AVERAGE EQUILIBRIUM ECT'S APPROACHED NEARLY 76% OF ALL REACTOR TUBES IN JULY COMPARED TO 75% IN JUNE AND 74.5% IN MAY. HIGHER RESIDUAL EXPOSURES AND INCREASED SPLINE USAGE AT D AND KW HAVE BEEN THE PRINCIPAL CONTRIBUTORS.

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 69.2% OF FORECAST ^{2/}, WITH 79.0% OF THE TOTAL PRODUCED BY PUREX AND 21.0% BY REDOX. PRODUCTION WAS BELOW FORECAST BECAUSE OF PROCESS DIFFICULTIES AT THE PUREX PLANT.

^{1/} AT TIME OF RUPTURE.
^{2/} TS DOCUMENT CLVI-695.

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PLANT OPERATIONS (CONT'D)

SEPARATIONS (CONT'D)

PUREX - PROCESSING WAS RESUMED ON JULY 12, FOLLOWING COMPLETION OF A 12-DAY OUTAGE FOR EQUIPMENT FLUSHING, MAINTENANCE, AND NEPTUNIUM RECOVERY. THE HA-HS EXTRACTION COLUMN SYSTEM AND THE NO. 1 ORGANIC TREATMENT CELL EQUIPMENT WERE FLUSHED DURING THE OUTAGE TO REMOVE FISSION PRODUCT SEDIMENT. IN ADDITION, THE NO. 1 ORGANIC STREAM WAS REFLUXED THROUGH THE TREATMENT CELL EQUIPMENT TO REMOVE DEGRADATION PRODUCTS.

FOLLOWING THE EXTRACTION EQUIPMENT AND ORGANIC SYSTEM FLUSHES, THE DECONTAMINATION FACTOR ACROSS THE FIRST CYCLE WAS THE HIGHEST ACHIEVED SINCE CONVERSION TO THE TWO-CYCLE PROCESS. HOWEVER, BOTH PRODUCT STREAMS REMAINED OUT OF SPECIFICATIONS BECAUSE OF CONTAMINATION IN THE FINAL PLUTONIUM CYCLE COLUMNS. EXTREMELY HIGH RADIATION LEVELS WERE FOUND AT THE BOTTOM OF THE 2A AND MIDDLE OF THE 2B FINAL PLUTONIUM CYCLE COLUMNS. THE BUILDUP OF THE RESIDUE IN THESE COLUMNS RESULTED EITHER FROM PROCESSING THE NEPTUNIUM FEED MATERIAL CONTAINING HIGH GAMMA ACTIVITY OR FROM SILICEOUS DEPOSITION FROM THE ORGANIC FLUSHES PRIOR TO THE NEPTUNIUM RECOVERY. PROCESSING WAS SUSPENDED FROM JULY 17 TO JULY 22 TO FLUSH THE FINAL PLUTONIUM CYCLE COLUMNS.

THE PLUTONIUM PRODUCT WAS WITHIN SPECIFICATION ALMOST IMMEDIATELY AFTER STARTUP. THE URANIUM PRODUCT CONTINUED TO BE SLIGHTLY ABOVE SPECIFICATION ON GAMMA ACTIVITY AND REQUIRED SILICA-GEL TREATMENT. THE URANIUM DECONTAMINATION DIFFICULTIES ARE CAUSED BY RESIDUAL FISSION PRODUCTS IN THE 1 CU CONCENTRATOR AND THE 2 DF FEED TANK RESULTING FROM THE NEPTUNIUM RECOVERY. THIS EQUIPMENT WILL BE FLUSHED DURING THE NEXT NEPTUNIUM RECOVERY OUTAGE.

DURING THE MONTH, 412 TONS OF URANIUM WERE PROCESSED THROUGH THE SILICA-GEL FACILITIES. IN ADDITION, 145 TONS OF URANIUM CONTAINING HIGH GAMMA ACTIVITY AND OUT-OF-SPECIFICATION ON PLUTONIUM CONTENT WERE RECYCLED FOR REWORK. THE OUT-OF-SPECIFICATION PLUTONIUM PRODUCT WAS BLENDED OR REWORKED TO PRODUCE ACCEPTABLE MATERIAL.

COLUMN FLUSHES AND FLUSHES OF THE SOLVENT TREATMENT EQUIPMENT CAUSED HIGHER-THAN-NORMAL WASTE LOSSES DURING THE MONTH. WASTE LOSSES AVERAGED 0.18% OF THE URANIUM THROUGHPUT AND 0.53% OF THE PLUTONIUM THROUGHPUT.

IODINE EMISSIONS AVERAGED 0.30 CURIES PER DAY.

NEPTUNIUM RECOVERY - A TOTAL OF 680 GRAMS OF NEPTUNIUM WAS RECOVERED DURING THE MONTH. THE RECOVERY FLOWSHEET WAS ESSENTIALLY THE SAME AS THAT USED IN PREVIOUS MONTHS. THE PRODUCT CONTAINED HIGHER-THAN-NORMAL GAMMA ACTIVITY AS A RESULT OF THE ADDITION OF AN EXTRACTION COLUMN FLUSH SOLUTION TO THE NEPTUNIUM FEED MATERIAL. THE RECOVERY YIELD WAS 91%, AND THE REMAINDER OF THE MATERIAL IS BEING CYCLED IN THE PROCESS.

REDOX - THE PROCESSING OF 94 METAL CONTINUED UNTIL JULY 22. ON JULY 27, FOLLOWING EQUIPMENT FLUSHES, THE PLANT PROCESSED NORMAL URANIUM TO HELP RELIEVE A SHORTAGE OF PLUTONIUM FEED FOR THE 234-5 BUILDING WHICH RESULTED FROM PROCESSING DIFFICULTIES AT PUREX. OPERATIONS WERE SUSPENDED ON JULY 31 FOR PREPARATION OF EQUIPMENT FOR 94-METAL PROCESSING.

THE PLUTONIUM PRODUCT STREAM WAS WITHIN SPECIFICATIONS THROUGHOUT THE MONTH. TWO BATCHES OF THE UNH PRODUCED FROM 94 METAL REQUIRED OZONIZATION TO MEET SPECIFICATIONS. IN ADDITION, REWORK OF SOME OF THE UNH PRODUCED FROM NORMAL URANIUM WAS NECESSARY BECAUSE OF HIGH PLUTONIUM CONTENT.

WASTE LOSSES AVERAGED 0.10% OF THE URANIUM THROUGHPUT AND 0.45% OF THE PLUTONIUM THROUGHPUT. A TOTAL OF 19 WASTE BATCHES WERE REWORKED.

IODINE EMISSIONS AVERAGE 0.227 CURIES PER DAY.

THE L-3 CONCENTRATOR SECTION WAS REPLACED DURING THE MONTH WITH A UNIT FABRICATED FROM TITANIUM. THE REBOILER TUBE BUNDLE IS TANTALUM. THE NEW CONCENTRATOR SECTION IS EXPECTED TO LAST THREE TO FOUR TIMES AS LONG AS THE FORMER STAINLESS STEEL UNIT AND TO ALLEVIATE THE PROBLEM OF IRON CONTAMINATION OF THE PLUTONIUM PRODUCT.

A TELEVISION CAMERA WAS LOWERED INTO H CELL TO EXAMINE A FAILED THERMOHM JUMPER ON THE H-7 TANK. VALUABLE INFORMATION WAS OBTAINED TO HELP DEVELOP A DEVICE TO REMOVE THE JUMPER. THE NEW TELEVISION EQUIPMENT WILL AID IN SOLVING CELL EQUIPMENT FAILURE PROBLEMS AND IN CORRECTING IMPROPERLY FITTING UNITS.

ON JULY 27, A FIRE OCCURRED IN A STORAGE GALLERY LOCATED NEXT TO THE INTERNAL TELEPHONE EXCHANGE ROOM. THE FIRE APPARENTLY STARTED WHEN FRICTION CAUSED THE DRIVE BELT OF A FRESH AIR FAN TO OVERHEAT, BURN, AND DROP INTO A BOX CONTAINING UNUSED SHW CLOTHING AND NEOPRENE GLOVES. DAMAGES TO LIGHT FIXTURES, THE INTERNAL TELEPHONE SYSTEM, AND EMERGENCY CLOTHING AND EQUIPMENT WERE ESTIMATED TO BE APPROXIMATELY \$2,500. AN ADDITIONAL EXPENDITURE OF \$2,000 WAS NECESSARY FOR CLEANUP OF THE AREA. THERE WERE NO PERSONNEL INJURIES NOR SPREAD OF CONTAMINATION, AND OPERATIONS WERE NOT AFFECTED.

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PLANT OPERATIONS (CONT'D)

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SEPARATIONS (CONT'D)

UO₃ - PLANT PRODUCTION OF NORMAL UO₃ TOTALLED 401 TONS, 100.3% OF FORECAST. A TOTAL OF 46.5 TONS OF ENRICHED UO₃ WAS PROCESSED, 93.0% OF FORECAST.

ALL SHIPPING SCHEDULES FOR NORMAL URANIUM WERE MET. IN ADDITION, 46.6 TONS OF ENRICHED URANIUM WERE SHIPPED.

OPERATIONS WERE RESUMED ON JULY 7, FOLLOWING A SCHEDULED TWO-WEEK VACATION PERIOD. PROCESSING WAS SUSPENDED FROM JULY 20 TO JULY 22 BECAUSE OF A SHORTAGE OF FEED.

A TOTAL OF EIGHT CARLOADS OF RECOVERED NITRIC ACID WAS RETURNED TO PUREX AND REDOX.

TWO OR THREE CARS OF UO₃ RECEIVED AT PADUCAH DURING THE MONTH WERE SOMEWHAT LOW IN REACTIVITY, INCREASING THE UO₃-UF₆ CONVERSION COST SLIGHTLY. TEST MEASURES WERE TAKEN TO DETERMINE THE EFFECT OF CERTAIN PROCESS CHANGES ON THE REACTIVITY OF THE PRODUCT. THESE INCLUDED AN INCREASE IN THE CALCINER TEMPERATURE AND ELIMINATION OF PERMACOL, A RUST INHIBITOR, FROM THE PROCESS STREAM. IN ADDITION, AUTOMATIC CONTROL OF SULFURIC ACID ADDITION IS EXPECTED TO CONTRIBUTE TO GREATER UNIFORMITY OF THE CALCINED PRODUCT.

RESEARCH AND DEVELOPMENT

DISSOLVER CRITICALITY STUDY - A STUDY OF THE POSSIBLE CONSEQUENCES OF A NUCLEAR INCIDENT IN A REDOX DISSOLVER WAS COMPLETED. THE MAXIMUM CREDIBLE INCIDENT WAS FOUND TO BE ONE IN WHICH A FINAL CHARGE TAKES THE DISSOLVER TO A NEAR PROMPT CRITICAL SITUATION. MOST OF THE FISSION HEAT IS RETAINED IN THE FUEL ELEMENTS AND SEVERE EXOTHERMIC CHEMICAL REACTIONS ARE POSTULATED AS RESULTING. THE AVAILABLE ENERGY RELEASE IN SUCH AN INCIDENT APPEARS TO BE SUFFICIENT TO RUPTURE THE DISSOLVER, AND TO CAUSE SEVERE DAMAGE TO PROCESS LINES AND POSSIBLY TO THE DISSOLVER CELL.

GRAPHITE STUDIES - MICROWAVES CAN BE USED TO GENERATE OXYGEN ATOMS AND IONS IN CO₂ AND SIMULATE THE EFFECT OF RADIATION IN MAKING CO₂ MORE REACTIVE TOWARDS GRAPHITE. A TRIAL GRAPHITE OXIDATION RUN WITH CO₂ IN THE MICROWAVE APPARATUS HAS BEEN MADE AT ROOM TEMPERATURE; HOWEVER, AIR LEAKS IN THE GAS PURIFICATION TRAIN SHOWED UP IN THE COLOR OF THE GLOW DISCHARGE. THESE LEAKS ARE BEING ELIMINATED.

NEPTUNIUM RECOVERY STUDIES - RECENT LABORATORY STUDIES, INCLUDING MIXER-SETTLER RUNS, INDICATE THAT INSTALLATION OF A SINGLE CRITICALLY SAFE SOLVENT EXTRACTION COLUMN IN A BY-PASS POSITION ON THE WASTE RECYCLE STREAM WOULD PERMIT RECOVERY OF NEPTUNIUM IN PARALLEL WITH NORMAL PLUTONIUM PROCESSING. THE STUDIES SHOW THAT WITH THIS EQUIPMENT A PLANT OUTAGE WOULD NOT BE NECESSARY FOR THE SEPARATION OF NEPTUNIUM.

PALM FABRICATION - PALM CAMPAIGN V WAS BEGUN JULY 17. THIRTEEN ELEMENTS CONTAINING 37.5 GRAMS OF NEPTUNIUM OXIDE AND FOUR ELEMENTS CONTAINING 75 GRAMS OF NEPTUNIUM OXIDE WERE SHIPPED ON AUGUST 3.

SOME DIFFICULTY WAS ENCOUNTERED IN EXTRUDING THE ELEMENTS CONTAINING THE DOUBLE QUANTITY OF PALM OXIDE. THE DIFFICULTY WAS AN EXCESSIVE DOGBONEING TENDENCY. SINCE THE DOUBLE-QUANTITY ELEMENTS ARE DESIRED BY SAVANNAH RIVER, AN ACCELERATED DEVELOPMENT PROGRAM IS UNDER WAY TO MINIMIZE THE DOGBONEING PROBLEM.

LONG RANGE RESEARCH AND DEVELOPMENT WORK ON PALM ELEMENTS IS DIRECTED TOWARD ELIMINATING COMPACTING, ELIMINATING AL₂O₃ IN THE END PLUGS, AND PRODUCING AN ELEMENT WITH END CAPS AND SQUARE-CORE CONFIGURATION AT BOTH ENDS.

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WITH DELETIONS

PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

CG-772, MULTIPURPOSE DISSOLVER - REDOX - A DIRECTIVE HAS BEEN ISSUED FOR FABRICATION OF ONE MULTI-PURPOSE DISSOLVER FOR USE IN DISSOLVING ENRICHED URANIUM FUELS.

CGI-791, CONFINEMENT OF RADIOACTIVE PARTICULATE MATTER IN 105 BLDG. EXHAUST AIR - DESIGN IS 96% COMPLETE WITH COMPLETION EXPECTED BY SEPTEMBER 1, 1959.

A DIRECTIVE HAS BEEN ISSUED AUTHORIZING CPFF CONSTRUCTION WORK FOR THE FILTER PHASE (PHASE II) AND FOR ADDITIONAL DESIGN AND TEST WORK. A REVISED PROPOSAL IS EXPECTED EARLY IN AUGUST FOR THE FIXED-PRICE PORTION OF THE FILTER PHASE.

PRELIMINARY WORK IS BEING DONE ON PREPARATION OF SPECIFICATIONS FOR HIGH EFFICIENCY FILTERS. ON-SITE TESTING OF FILTERS IS BEING CONTEMPLATED DUE TO A HIGH INCIDENCE OF DEFECTIVE FIRE RESISTANT FILTERS THAT HAVE BEEN RECEIVED IN THE PAST.

OAK RIDGE EXPERIMENTAL WORK ON BURNING FUEL ELEMENTS IS NEARLY COMPLETE. A REPORT ON THE EXPERIMENTS IS EXPECTED TO BE COMPLETED SHORTLY.

CGC-811, ADDITIONAL PLUTONIUM FABRICATION FACILITIES 234-5 BUILDING - A REVISED PROPOSAL REQUESTING TOTAL PROJECT FUNDS HAS BEEN GIVEN FAVORABLE REVIEW AND TRANSMITTED TO THE WASHINGTON OFFICE FOR APPROVAL. DESIGN IS 30% COMPLETE.

CGC-813, PLUTONIUM RECOVERY FROM CONTAMINATED MATERIALS 234-5 BUILDING - THE TOTAL PROJECT HAS BEEN AUTHORIZED. DESIGN IS 77% COMPLETE, AND LUMP-SUM BIDS FOR THE BUILDING HAVE BEEN SOLICITED FOR AUGUST 18.

CAI-816, NEW PRODUCTION REACTOR -

DESIGN - DESIGN OF THE HEAT DISSIPATION PLANT HAS BEEN REVIEWED TO EFFECT A REDUCTION OF \$9,000,000 IN TOTAL ESTIMATED COST. THE CHANGES INVOLVE THE ELIMINATION OF THE FOLLOWING:

1. ONE TURBOGENERATOR AND ONE BOILER IN THE POWER HOUSE.
2. TWO DUMP CONDENSERS.
3. ONE FORCED DRAFT FAN.
4. REDUCTION IN ELECTRICAL SWITCHING GEAR.

THE GENERAL ELECTRIC COMPANY DESIGN CRITERIA LISTED BELOW WERE APPROVED DURING THE MONTH. OF A TOTAL OF 42 DESIGN CRITERIA, 18 HAVE BEEN APPROVED.

1. HEAT CONVERSION PLANT COMMUNICATION SYSTEM.
2. PRIMARY REACTOR SHIELD AND INLET BARRIER WALL.
3. HORIZONTAL ROD INSTRUMENTATION.
4. THERMAL SHIELD.
5. BUILDING SERVICE SYSTEMS AND DRAIN PIPING.

A REVISED SCHEDULE FOR CRITERIA BEING PREPARED BY THE BURNS & ROE COMPANY CALLS FOR COMPLETION OF COMMENT ISSUES BY NOVEMBER 1, 1959. OF A TOTAL OF 14 TO BE ISSUED, ONE HAS BEEN APPROVED.

TITLE II DESIGN AS OF JULY 31, 1959:

	<u>SCHEDULED</u>	<u>ACTUAL</u>
GENERAL ELECTRIC COMPANY	12.8	15
BURNS & ROE	23	18
TOTAL (OVER-ALL TITLE II)	17	16

DESIGN MANPOWER:

GENERAL ELECTRIC COMPANY	77
BURNS & ROE	81

FEDERAL POWER COMMISSION STUDIES - A FEDERAL POWER COMMISSION STUDY PREDICTING LOAD REQUIREMENTS TO APPROXIMATELY 1986 HAS BEEN FORWARDED TO THE BURNS & ROE COMPANY. THE BURNS & ROE CONTRACT IS BEING MODIFIED TO COVER ASSISTANCE STUDIES FOR THE FPC.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PROJECT AND DESIGN STUDIES (CONT'D)

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

THE NPR POWER CONVERSION STUDY IS BEING CORRELATED WITH STUDIES FOR INTERCONNECTION OF THE NORTHWEST POWER GRID WITH CALIFORNIA, AND FOR STORAGE OF WATER ON THE CANADIAN PORTION OF THE COLUMBIA RIVER AND OTHER CANADIAN POWER SOURCES. NPR CONVERSION STUDIES MAY BE AFFECTED CONSIDERABLY BY THESE OTHER STUDIES.

NPR FUEL DEVELOPMENT - ON JULY 31, FOUR TUBE-AND-TUBE FUEL ELEMENTS WERE DISCHARGED FROM KER LOOP 1 AT A LOW EXPOSURE DUE TO RUPTURE INDICATIONS ON THE NEUTRON MONITOR SYSTEM. THE ELEMENTS ARE BEING EXAMINED IN THE BASIN. CAUSE OF RUPTURE INDICATION HAS NOT YET BEEN DETERMINED.

CGC-821, PROJECT PALM - PUREX - DEFINITIVE PROCESS DESIGN HAS BEEN STOPPED IN ORDER TO EVALUATE ALTERNATE FACILITIES FOR PERFORMING THE PURIFICATION STEP AND TO COORDINATE THIS EFFORT WITH THE PROPOSED PALMOLIVE PROGRAM.

PALMOLIVE - TITLE I DESIGN OF NEW FACILITIES TO BE LOCATED IN THE HOT SEMIWORKS BUILDING HAS BEEN AUTHORIZED. A COMPLETE PROJECT PROPOSAL IS EXPECTED DURING THE WEEK BEGINNING AUGUST 10.

CGC-830, PLANT MODIFICATIONS FOR REPROCESSING NONPRODUCTION REACTOR FUELS - VITRO ENGINEERING COMPANY HAS BEEN SELECTED TO PERFORM DESIGN. ADDITIONAL DEVELOPMENT CONTRACTS ARE CONTEMPLATED FOR CENTRIFUGES AND SOLIDS PUMPING EQUIPMENT. DEFINITIVE SCOPE IS 14% COMPLETE.

CGI-839, MODIFICATION OF FUEL ELEMENT TEST FACILITIES, 1706-KER - SCOPE DRAWINGS OF ELECTRICAL, PROCESS ASSEMBLIES, MODIFICATIONS TO PIPING, AND EQUIPMENT LAYOUT OF THE DECONTAMINATION ROOM AND MAINTENANCE HOT SHOP HAVE BEEN SUBMITTED FOR APPROVAL.

CGF-847, NEW FUEL CLADDING FACILITY - DESIGN CRITERIA, SPECIFICATION, AND SCOPE DRAWINGS FOR THE BUILDING SHELL WERE COMPLETED AND A BID PACKAGE PREPARED FOR THE FIXED-PRICE DESIGN-AND-CONSTRUCT CONTRACT. BIDS ARE DUE AUGUST 5.

CAH-867, FUEL ELEMENT RUPTURE TEST FACILITY - THE PROJECT HAS RECEIVED FAVORABLE REVIEW ACTION AND WILL BE TRANSMITTED TO THE WASHINGTON OFFICE FOR APPROVAL.

AEC-175, NEW CENTRAL INDUSTRIAL FIRE STATION - FOLLOWING AWARD OF THE A-E CONTRACT TO CARSON, KESTERSON & MOE AT THE END OF JUNE, 20% OF DESIGN WAS COMPLETED DURING JULY. THE FIRST PRELIMINARY DRAWING WAS REVIEWED LATE IN JULY.

LANDSCAPING OF CIVIC CENTER - DETAILED DESIGN DRAWINGS AND SPECIFICATIONS HAVE BEEN REVIEWED AND COMMENTS RETURNED TO THE ARCHITECT-ENGINEER.

PLANT CONSTRUCTION

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

PROJECT	PROJECT PROPOSAL NO.	MAJOR PROJECTS					PRESENT WORKING ESTIMATE (THOUSANDS)
		ACTUAL STARTING DATE	SCHED. COMPL. DATE	CONSTRUCTION		DESIGN % ACTUAL COMPL.	
				COMPLETION			
				% SCHED.	% ACTUAL		
PRTR	AEC-167	3-6-58	8-30-60	34	34	100	\$12,750
PUREX WASTE FACILITY	CG-719	8-27-58	11-30-59	99	99	100	1,068
RMC BUTTON LINE, 234-5	CG-734	2-18-58	1-31-60	90	88	100	1,480
PU. FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	70	75	93	4,000
HIGH LEVEL RADIOCHEM. FACILITY	CA-749	8-14-58	1-1-60	80	85	100	960
MET. DEV. FAC., 306 BLDG. ADDITION	CA-744	3-20-59	9-1-60	7	9	95	2,685
REACTOR CONFINEMENT	CG-791	3-31-59	6-15-60	-	16	96	1,800*
306 BLDG. PILOT PLANT	CG-810	1-29-59	4-1-60	6	6	100	755
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	5	6	100	1,000

AEC-167, PLUTONIUM RECYCLE TEST REACTOR - PHASE II - HOFFMAN CONSTRUCTION COMPANY - CONTRACT AT(45-1)-1280. THE AEC-167 PORTION OF CONTRACT AT(45-1)-1280 WAS COMPLETED ON JUNE 30, 1959.

*PORTION OF TOTAL CONFINEMENT PROJECT.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

CAI-816, NEW PRODUCTION REACTOR - CONTRACT AT(45-1)-1455 - KAISER ENGINEERS. BID OPENINGS FOR THE FOLLOWING SUBCONTRACTS WERE HELD BY KAISER ENGINEERS DURING THE MONTH OF JULY:

1. TWELVE-INCH (12") WATER LINE TO NPR SITE - AWARDED TO J. P. HEAD ON JULY 22, 1959.
2. ACCESS ROADS TO THE 100-N SITE - AWARDED TO L. W. VAIL ON JULY 24, 1959.

CAH-837, ANIMAL PENS, ISOLATION AND EXAMINATION FACILITIES - CONTRACT AT(45-1)-1466 - RAY ASHCRAFT. THE CONTRACTOR STARTED WORK ON JULY 10, 1959.

CAH-848, GEOLOGICAL AND HYDROLOGICAL WELLS - CONTRACT AT(45-1)-1467 - BACH DRILLING COMPANY. WORK STARTED ON JULY 16, 1959.

PROCUREMENT

A CONTRACT WAS SIGNED ON JULY 29, 1959, WITH THE WOLVERINE TUBE DIVISION OF CALUMET HECLA, INC., FOR THE PURCHASE OF 7,000 FEET OF ZIRCALOY TUBING TO BE USED IN THE FABRICATION OF THE INITIAL FUEL ELEMENTS FOR THE PRTR TEST REACTOR.

NINETEEN AWARDS MADE BY GENERAL ELECTRIC WERE APPROVED IN THE AMOUNT OF \$861,530.00. THERE WERE 300 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$552,600.45 PLACED BY THE ATOMIC ENERGY COMMISSION.

CONTRACTS

ONLY ONE CONTRACT WAS AWARDED DURING THE MONTH OF JULY WHICH WAS CONTRACT AT(45-1)-1465, HOWARD S. WRIGHT CONSTRUCTION COMPANY, \$84,990.00, FOR FENCE AND BADGE HOUSE RELOCATION - 100-F AREA.

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AUG 13 1959

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

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

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

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MONTHLY STATUS AND PROGRESS REPORT

JULY 1959

PART II

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

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MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

JULY 1959

PART II

C O N T E N T S

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

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COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR JULY 1959:

	<u>JULY 1</u>	<u>JULY 31</u>
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	285	216
1. TOTAL HOUSES OCCUPIED	186	127
2. TOTAL HOUSES UNOCCUPIED	99	89
(A TOTAL OF 3,758 HOUSES AND 925 DUPLEXES SOLD - 5,608 UNITS)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	134	134
2. TOTAL APARTMENTS UNOCCUPIED	0	0

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	119	138	400	92	749
VACANT	161	82	0	8	251

DISPOSAL - MORE THAN 250 PRIORITY APPLICATIONS WERE RECEIVED FOR THE 15 SINGLE UNIT HOUSES, ON WHICH THE APPLICATION PERIOD ENDED JULY 13, 1959. A LIST OF THE SUCCESSFUL APPLICANTS WAS POSTED ON JULY 31 AND THE APPEAL PERIOD WILL EXPIRE AUGUST 10, 1959.

THE FHA OFFICE IN SPOKANE WAS FURNISHED PLAT SHEETS ON THE BAUER-DAY (COLUMBIA HEIGHTS) SINGLE HOUSING DEVELOPMENT, TOGETHER WITH COPIES OF THE PLAT OF RICHLAND FOR THE SAME AREA. FHA PLANS TO USE THE MATERIAL TO SCOPE A CONTRACT FOR PLATTING OF THE BLOCKS INTO INDIVIDUAL LOTS.

THE HHFA OFFERED THE FLOOD PLAIN TRACTS ON JULY 26, 1959, BY NEWSPAPER ADVERTISEMENT.

THE WASHINGTON OFFICE OF FHA WAS REQUESTED TO SEND AN APPRAISER TO COMPLETE ALL REMAINING FIELD APPRAISAL WORK.

THE HHFA OFFICE IN RICHLAND WAS FURNISHED A LIST OF TEN MORE COMMERCIAL PROPERTIES WHICH CAN BE OFFERED FOR SALE.

EIGHTEEN COMMERCIAL PROPERTY PRIORITIES WERE CERTIFIED TO HHFA, WHICH WERE POSTED ON JULY 14, 1959, AND THE INDIVIDUAL OFFERS WERE MAILED OUT ON JULY 27, 1959.

THE BALLOTS AND BROCHURES FOR ELECTION AS TO RECIPIENT OF THE CEMETERY RESERVE LAND WERE SENT OUT BY MAIL ON JULY 7 AND 8, RETURNABLE ON JULY 29. ON JULY 30, 1959, THE BALLOTS WERE COUNTED AND THE RESULTS WERE AS FOLLOWS:

RICHLAND CEMETERY ASSOCIATION	1,700	53.7%
INDEPENDENT ORDER OF ODD FELLOWS	1,357	42.9%
NEITHER	106	3.4%

HOO WAS ADVISED BY THE SPOKANE OFFICE OF FHA THAT BENTON COUNTY HAS FILED A TAX LIEN ON THE COLUMBIA HEIGHTS (BAUER-DAY) HOUSES AND THAT FHA WILL NOT PAY IN LIEU OF TAXES AS LONG AS THE HOUSES ARE PERSONALTY, BUT WILL PAY TAXES ON THE HOUSES AND LAND WHEN FHA OWNS THE LAND.

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COMMUNITY OPERATIONS (CONT'D)

THE REPORT OF SALES FOR THE MONTH OF JULY IS AS FOLLOWS:

	<u>TOTAL INVENTORY</u>	<u>SALES CLOSED</u> <u>PAST MONTH</u>	<u>TOTAL</u>	<u>UNSOLD</u>	<u>GOOD FAITH DEPOSITS</u>
<u>PRIORITY PROPERTIES</u>					
SINGLE HOUSES	3,788	5	3,788	30	14
DUPLEX HOUSES	1,018	22	915	103	92
COMMERCIALS	128	1	14	114	13
CHURCHES	6	1	3	3	3
NON-PROFIT	7	0	0	7	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	106	4	48	58	0
RESIDENTIAL TRACTS	85	12	27	58	24
COMMERCIALS	24	0	0	24	0
INDUSTRIALS	37	0	0	37	0
FLOOD PLAIN	39	0	0	39	0
<u>TOTAL</u>	<u>5,359</u>	<u>45</u>	<u>4,862</u>	<u>497</u>	<u>147</u>

MUNICIPAL - THE RICHLAND CITY MANAGER WAS REQUESTED TO ASK THE COUNCIL FOR AN ORDINANCE ESTABLISHING BUS STOPS FOR PLANT BUSES ON CITY STREETS.

COMMERCIALS - THE COLUMBIA BASIN GAS COMPANY WAS NOTIFIED ON JULY 17, 1959 THAT ITS LICENSE FOR THE CONSTRUCTION AND OPERATION OF A GAS SYSTEM IN RICHLAND WAS TERMINATED BECAUSE OF DEFAULT.

THE PAYLESS DRUG STORE AND NIHART'S JEWELRY STORE MOVED OUT OF THE MART BUILDING AND MAURY KIRKPATRICK ASKED AUTHORITY TO ASSIGN HIS LEASE TO ROY DAVIS FOR HIS FURNITURE STORE. THE ASSIGNMENT OF LEASE WAS APPROVED ON JULY 7, 1959. THE PAYLESS DRUG STORE MOVED INTO THE OLD DIAMOND STORE SITE IN THE DOWNTOWN AREA, AND NIHART'S JEWELRY MOVED INTO A PART OF THE C. C. ANDERSON STORE.

FIRE DESTROYED MOST OF THE RICHLAND BAKERY AND DID CONSIDERABLE DAMAGE TO CAMPBELL'S GROCERY STORE AT SYMONS AND GOETHALS. GOVERNMENT FIRE LOSS IS ESTIMATED AT \$24,500 TO BOTH BUILDINGS.

WAHLUKE SLOPE - THE U. S. ATTORNEY AT YAKIMA PRESENTED TO FEDERAL JUDGE LINDBERG AN ORDER, FOR SIGNATURE, SENDING THE WAHLUKE SLOPE AWARDS BACK TO THE THREE COMMISSIONERS TO MAKE A MORE COMPLETE REPORT AND TO JUSTIFY THE AWARDS.

MR. CHARLES POWELL, AN ATTORNEY OF KENNEWICK, TOOK OFFICE AS FEDERAL DISTRICT JUDGE ON JULY 31, 1959, AND WILL BE RESPONSIBLE FOR FURTHER LEGAL ACTION ON WAHLUKE SLOPE CASES.

PERSONNEL (ON-SITE)

	<u>JULY 1</u>	<u>JULY 31</u>
ATOMIC ENERGY COMMISSION	276	273
GENERAL ELECTRIC COMPANY	8,005	8,030
TOTAL CONSTRUCTION PERSONNEL	<u>729</u>	<u>524*</u>
 TOTAL PROJECT PERSONNEL	 <u>9,010</u>	 <u>8,927</u>

KEY PERSONNEL CHANGES: NONE

*REDUCTION DUE TO THREE-WEEK WORK STOPPAGE DURING THE MONTH.

LABOR RELATIONS

DURING THE PERIOD JULY 13-30, CONSTRUCTION WORK AT HANFORD WAS SOMEWHAT CURTAILED AS THE RESULT OF PICKETING BY LOCAL UNION 77, IBEW, IN PROTEST OF THE EMPLOYMENT OF NON-UNION WORKMEN BY ESTEP LINE CONSTRUCTION COMPANY. BECAUSE CERTAIN OF THEIR WORKMEN REFUSED TO CROSS THE PICKET LINES, TWO COMMISSION CONTRACTORS, J. A. JONES AND SHAW AND ESTES, FILED UNFAIR LABOR PRACTICE CHARGES WITH THE NATIONAL LABOR RELATIONS BOARD ALLEGING A SECONDARY BOYCOTT OF THEIR OPERATIONS BY LOCAL 77. THE BOARD HAS INVESTIGATED THE CHARGES AND PROPOSES TO ISSUE A COMPLAINT AGAINST THE UNION.

END

**DATE
FILMED
9/01/92**