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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 I [REDACTED] of subject report for the month of May, 1959. The "Official Use Only" portion, Part II, is forwarded as a separate report.

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MONTHLY STATUS AND PROGRESS REPORT

MAY 1959

PART I

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HANFORD OPERATIONS OFFICE

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HANFORD
DOCUMENT NO. 72358 *72358*

MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

MAY 1959

PART I

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HANFORD
DOCUMENT NO. 72358 - 222

HIGHLIGHT STATEMENT - MAY 1959

OPERATIONS

CANNED FUEL ELEMENT PRODUCTION TOTALLED 476.5 TONS, INCLUDING 59 TONS OF SOL D AND 411 TONS OF I&E NORMAL URANIUM AND 6.5 TONS OF I&E 94 METAL. THE 476.5-TON TOTAL IS 95.0% OF FORECAST. YIELDS WERE 79% FOR SOLID AND 77% FOR I&E NORMAL, AND 80% FOR 94-METAL PIECES. THE CANNING LINE TIME-OPERATED EFFICIENCY WAS 94.1%.

IN-PILE PRODUCTION TOTALLED 98.7% OF FORECAST, WITH AN AVERAGE TIME-OPERATED EFFICIENCY OF 75.9% AS COMPARED WITH 78% FORECAST. VARIATION FROM FORECAST RESULTED FROM SCRAMS AND UNSCHEDULED OUTAGES FOR MAINTENANCE AT THE K REACTORS. INDIVIDUAL MONTHLY PRODUCTION RECORDS WERE ACHIEVED AT C AND D REACTORS. A NEW MAXIMUM POWER LEVEL WAS ESTABLISHED AT B REACTOR. THERE WERE SIX I&E NORMAL-URANIUM FUEL ELEMENT FAILURES DURING THE MONTH.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 115.0% OF FORECAST, WITH 78.1% OF THE TOTAL PRODUCED BY PUREX AND 21.9% BY REDOX.

PRODUCTION OF NORMAL UO_3 TOTALLED 452 TONS, 100.4% OF FORECAST; PRODUCTION OF ENRICHED UO_3 TOTALLED 49.2 TONS, 98.4% OF FORECAST.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - DESIGN AND DEVELOPMENT ARE CONTINUING. GENERAL ELECTRIC HAS 56 PEOPLE AND BURNS & ROE HAS 59 PEOPLE WORKING ON DESIGN. (SEE PART I, PAGE 13.)

CONFINEMENT - DESIGN IS 93% COMPLETE WITH PHASE I 100% COMPLETE. (SEE PART I, PAGE 13.)

F&TR - DESIGN IS COMPLETE AND CONSTRUCTION IS 26% COMPLETE VS. 24% SCHEDULED. (SEE PART I, PAGE 14.)

PLUTONIUM FABRICATION PILOT PLANT - DESIGN IS 92% COMPLETE AND CONSTRUCTION IS 67% COMPLETE VS. 59% SCHEDULED. (SEE PART I, PAGE 14.)

CITY HALL - DESIGN IS COMPLETE AND CONSTRUCTION IS 99% COMPLETE VS. 100% SCHEDULED. BUILDING TRANSFERRED TO CITY OF RICHLAND ON JUNE 1, 1959. (SEE PART I, PAGE 14; AND PART II, PAGE 3.)

COMMUNITY

DISPOSAL - 4,609 OF 4,806 HOUSES HAVE BEEN SOLD AND AN ADDITIONAL 106 GOOD FAITH DEPOSITS MADE. (SEE PART II, PAGE 3.)

INCORPORATION - CITY OF RICHLAND ACCEPTED TRANSFER OF POLICE, FIRE, ENGINEER AND DOG POUNDMASTER OPERATION ON JUNE 1, 1959. (SEE PART II, PAGE 3.)

LABOR RELATIONS

PAINTERS' STRIKE FROM MAY 11 TO MAY 25. (SEE PART II, PAGE 4.)

PLANT OPERATIONS

METAL PREPARATION

CANNING - THE NET PRODUCTION OF CANNED FUEL ELEMENTS WAS:

NORMAL URANIUM	
SOLID	59 TONS
I&E	411
94 METAL	
I&E	6.5
TOTAL	476.5 TONS

THE 476.5-TON TOTAL OF CANNED FUEL ELEMENTS WAS 95.0% OF FORECAST ^{1/}. NORMAL URANIUM I&E PRODUCTION INCLUDED FIVE TONS OF WATER MIXING PIECES.

YIELDS WERE 79% FOR NORMAL SOLID, 77% FOR NORMAL I&E, AND 80% FOR 94-METAL I&E PIECES. THE CANNING LINE TIME-OPERATED EFFICIENCY WAS 94.1%. THE PLANT WAS OPERATED ON A SCHEDULE OF EIGHT CANNING-LINE SHIFTS PER DAY, FIVE DAYS PER WEEK.

AT MONTH END, THE BARE AND IN-PROCESS INVENTORY OF FUEL ELEMENTS WAS 709 TONS. BASED ON FORECASTED CANNING SCHEDULES, THE SUPPLY RANGES FROM 0.4 MONTH FOR OLD PILE NORMAL I&E PIECES TO 3.7 MONTHS FOR C PILE 94-METAL I&E PIECES. THE SUPPLY OF CANNED FUEL ELEMENTS RANGED FROM APPROXIMATELY 0.7 MONTH FOR OLD PILE NORMAL I&E PIECES TO APPROXIMATELY 1.6-MONTH SUPPLY OF NORMAL SOLID PIECES.

AUTOCCLAVE FAILURES - THERE WERE NO AUTOCCLAVE FAILURES DURING THE MONTH.

SCRAP SHIPMENTS - ONE SHIPMENT OF SCRAP WAS MADE TO FERNALD DURING MAY. THE SHIPMENT INCLUDED 32.5 TONS OF NORMAL URANIUM AND 0.6 TON OF 94 METAL.

REACTOR OPERATION

DURING MAY, REACTOR PRODUCTION RATES AS PERCENTAGES 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)	1916 ¹	1900	1891 ⁷	1897	1850 ⁷	1933 ¹	1723	1801	1841 ¹
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	1745 ⁷	1737	1781 ⁷	1787 ⁷	1691	1789	1382	1524	1629
TIME-OPERATED EFFICIENCY	73.8	82.2	92.6	89.3	53.4	81.5	53.2	81.0	75.9

IN-PILE PRODUCTION FOR MAY WAS 98.7% OF FORECAST ^{3/}. AVERAGE TIME-OPERATED EFFICIENCY WAS 75.9% AS COMPARED WITH 78% FORECAST. VARIATION FROM FORECAST RESULTED FROM SCRAMS AND UNSCHEDULED OUTAGES FOR MAINTENANCE AT THE K REACTORS. INDIVIDUAL MONTHLY PRODUCTION RECORDS WERE ACHIEVED AT C AND D REACTORS.

A NEW MAXIMUM POWER LEVEL WAS ATTAINED AT B REACTOR. AT THE END OF THE MONTH, ALL REACTORS WERE LIMITED BY FUEL ELEMENT FAILURE CONTROL CONSIDERATIONS.

SIX I&E NORMAL-URANIUM FUEL ELEMENT FAILURES OCCURRED DURING THE MONTH - ONE AT KW, TWO AT C, AND THREE AT H REACTOR. THIS BRINGS THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS TO 1,092, INVOLVING 1,111 PIECES (INCLUDING 38 I&E FAILURES). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS REMAINS AT 62, INVOLVING 64 PIECES; AND THE NUMBER OF DEPLETED-METAL RUPTURE INCIDENTS REMAINS AT 13, INVOLVING 13 PIECES.

^{1/} TS DOCUMENT CLVI-695.

^{2/} THE INDEX IS AS STATED IN MEMORANDUM TRAVIS/BLOCH, JUNE 12, 1959, SUBJECT "HANFORD MONTHLY STATUS AND PROGRESS REPORT"

^{3/} TS DOCUMENT CLVI-695

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PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

FOLLOWING IS A SUMMARY OF MAY REACTOR OUTAGES:

B REACTOR:

<u>DATE DOWN</u>	<u>DATE UP</u>	<u>OUTAGE HOURS</u>	<u>REMARKS</u>
5-9	5-16	156.6	SCHEDULED CHARGE-DISCHARGE, TUBE REPLACEMENT, AND MAINTENANCE.
5-16	5-16	2.3	INSTALL ORIFICE IN BALL VALVE TUBE 2265.
5-16	5-16	1.4	DISCHARGE TUBE 3982 FOR TEMPERATURE CONTROL.
5-20	5-21	35.2	PANELLIT TRIP DUE TO FLUCTUATING GAUGE. COMPLETED MISCELLANEOUS MAINTENANCE DURING INSUFFICIENT REACTIVITY PERIOD.

C REACTOR:

5-10	5-11	35.9	REMOVED AN I&E REGULAR-METAL RUPTURE FROM TUBE 1279 AND PERFORMED MISCELLANEOUS MAINTENANCE.
5-12	5-14	54.6	REMOVAL OF A STUCK I&E REGULAR-METAL RUPTURE FROM TUBE 1165. PERFORMED CHARGE-DISCHARGE.
5-14	5-14	1.6	A CRITICAL "Y" CAUSED BY A POLE-TOP FIRE ON 230 KV LOOP.
5-15	5-15	5.0	POISON DISCHARGE.
5-28	5-30	35.3	WATER LEAK DUE TO BROKEN THERMOCOUPLE. COMPLETED CHARGE-DISCHARGE.

D REACTOR:

4-30	5-1	33.9	PERFORMED LEAK TESTING, FOLLOWING PANELLIT TRIP.
5-5	5-5	0.2	TRIPPED WHEN RELAY ON SEISMOSCOPE WAS INADVERTENTLY ACTIVATED.
5-13	5-15	34.8	PANELLIT TRIP DUE TO AN OSCILLATING GAUGE. DURING PERIOD OF INSUFFICIENT REACTIVITY, PERFORMED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.

DR REACTOR:

5-13	5-14	39.6	A CRITICAL "Y" CAUSED BY A SHORT IN THE CABLE THAT FEEDS NO. 3 AND NO. 4 TRANSFORMERS AT 151 SUBSTATION. PERFORMED CHARGE-DISCHARGE.
5-30	STILL DOWN		PERFORMED LEAK TESTING, SCHEDULED CHARGE-DISCHARGE, AND TUBE REPLACEMENT. INSTALLED FOG SPRAY EQUIPMENT. VENTURI INSTALLATION IS IN PROGRESS.

F REACTOR:

5-3	5-8	124.4	NO. 3 PUMP UNIT AT 190 WAS LOST DUE TO THE OPERATION OF A RELAY. PERFORMED CHARGE-DISCHARGE, TUBE REPLACEMENT, AND LEAK TESTING.
5-9	5-9	0.2	PANELLIT TRIP WHILE CHARGING A POISON COLUMN CONTROL FACILITY TUBE.
5-12	5-15	66.2	LEAK TESTING FOLLOWED BY REPLACEMENT OF FIVE LEAK-PRONE TUBES.
5-25	STILL DOWN		REMOVAL OF TWO STUCK PIECES FROM DEFECTIVE TUBE 1196. PERFORMED CHARGE-DISCHARGE AND LEAK TESTING. TUBE REPLACEMENT IS IN PROGRESS.

H REACTOR:

4-28	5-1	78.9	COMPLETED CHARGE-DISCHARGE, FOLLOWING LEAK TESTING.
5-9	5-10	34.3	PANELLIT TRIP. INSPECTION OF METAL DISCHARGED REVEALED AN I&E REGULAR-METAL RUPTURE IN TUBE 3778. DURING INSUFFICIENT REACTIVITY PERIOD, COMPLETED CHARGE-DISCHARGE AND TUBE REPLACEMENT.
5-13	5-14	33.4	PANELLIT TRIP. PERFORMED TUBE REPLACEMENT DURING UNSUCCESSFUL RECOVERY DUE TO A FAULTY LIMIT SWITCH ON VSR #44.
5-14	5-14	1.1	REPLACED A DOUBLE ORIFICE IN TUBE 3159 WITH VENTURI.
5-26	5-27	32.0	REMOVAL OF AN I&E REGULAR-METAL RUPTURE FROM TUBE 3757. PERFORMED CHARGE-DISCHARGE.
5-27	5-28	16.5	REMOVAL OF A STUCK I&E REGULAR-METAL RUPTURE FROM TUBE 1587.

KE REACTOR:

4-15	5-10	583.8	PERFORMED CHARGE-DISCHARGE AND REPLACED RESISTANCE TEMPERATURE DETECTORS AND GAS SEALS, FOLLOWING PANELLIT TRIP.
5-10	5-10	5.0	REPAIRED AN INOPERABLE THERMOBULB.
5-11	5-11	8.4	POISON DISCHARGE.

PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

<u>DATE DOWN</u>	<u>DATE UP</u>	<u>OUTAGE HOURS</u>
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REMARKS

KE REACTOR: (CONT'D)

5-18	5-20	45.0	WATER LEAKS BETWEEN VENTURI AND HEADERS. PERFORMED CHARGE-DISCHARGE AND VENTURI INSPECTION.
5-20	5-21	5.0	POISON DISCHARGE.
5-23	5-24	30.3	NO. 1 SAFETY CIRCUIT TRIP. CHARGE-DISCHARGE.
5-29	5-30	30.5	PANELLIT TRIP DUE TO A SHORT IN GAUGE. COMPLETED CHARGE-DISCHARGE.

KW REACTOR:

4-30	5-1	2.2	POISON DISCHARGE.
5-9	5-10	8.9	PANELLIT TRIP DUE TO A GAUGE GROUNDED BY MOISTURE. PERFORMED CHARGE-DISCHARGE.
5-11	5-11	1.4	POISON DISCHARGE.
5-15	5-17	35.9	WATER LEAKS UPSTREAM OF VENTURI. COMPLETED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
5-17	5-17	1.9	POISON DISCHARGE.
5-19	5-20	29.8	REMOVAL OF AN I&E REGULAR-METAL RUPTURE FROM TUBE 3572. PERFORMED LEAK TESTING AND MAINTENANCE.
5-20	5-20	2.0	MANUAL TRIP DUE TO HIGH TEMPERATURE ON TUBE 2584.
5-21	5-21	2.3	POISON DISCHARGE.
5-25	5-25	0.3	PANELLIT TRIP.
5-25	5-27	32.9	MANUAL TRIP FOR TEMPERATURE CONTROL. PERFORMED CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
5-27	5-27	1.8	POISON DISCHARGE.

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

TABULATION OF RUPTURED URANIUM SLUGS									
TUBE No.	DATE RUPTURED	TUBE POWER	1/	CONCENTRATION	ASSIGNED LOSS		METAL	TYPE FAILURE	
			(MMD/T)	(NORMAL)	MMD	DAYS			
3778-H	5-9	1010		412		714	.48	I&E	HOLE FAILURE.
1279-C	5-10	1093		566		1461	.84	I&E	SIDE HOT SPOT.
1165-C	5-12	1033		568		1917	1.10	I&E	SIDE HOT SPOT.
3572-KW	5-19	1174		527		1754	.64	I&E	HOLE FAILURE.
3757-H	5-26	896		607		339	.23	I&E	HOLE FAILURE.
1587-H	5-27	965		657		1220	.89	I&E	UNCLASSIFIED.

EQUIPMENT EXPERIENCE - A TOTAL OF 147 TUBES WERE INSTALLED - 102 AT F, 27 AT B, 16 AT H, AND ONE EACH AT C AND D REACTORS.

SIX TUBE LEAKS AND ONE VAN STONE LEAK WERE CORRECTED.

GRAPHITE STACK DISPLACEMENT, 105-KE - INSPECTION HOLES WERE DRILLED INTO THE 105-KE TOP SHIELDS TO PERMIT OBSERVATION AND MEASUREMENT OF THE GRAPHITE STACK DISPLACEMENT. MEASUREMENTS MADE INDICATED THAT THE PROPOSED PUSH BAG STACK RESTORATION SCHEME WOULD NOT BE SUCCESSFUL. ALTERNATE SOLUTIONS TO THE PROBLEM ARE BEING CONSIDERED.

REACTOR CONTROL - BECAUSE OF SPLINE SWELLING AND CHOPPER PROBLEMS, USE OF POISON SPLINES WILL BE CURTAILED UNTIL SOLID SPLINES ARE AVAILABLE. DELIVERY OF 300 SPLINES IS EXPECTED TO START IN LATE JUNE.

THE FIRST POISON DISPLACEMENT COLUMN HAS ARRIVED AND IS BEING TESTED IN THE FLOW LABORATORY. THE OTHER SIX SETS ON ORDER WILL ARRIVE ABOUT AUGUST 1.

1/ AT TIME OF RUPTURE.

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PLANT OPERATIONS (CONT'D)

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 115.0% OF FORECAST $\frac{1}{2}$, WITH 78.1% OF THE TOTAL PRODUCED BY PUREX AND 21.9% BY REDOX.

PUREX - PROCESSING WAS CONTINUOUS UNTIL MAY 19 WHEN THE PLANT WAS SHUT DOWN FOR NEPTUNIUM RECOVERY. FOLLOWING EQUIPMENT FLUSHING, NEPTUNIUM RECOVERY STARTED ON MAY 21, AND THE FINAL LOAD-OUT OF SEPARATED MATERIAL WAS COMPLETED ON MAY 27. STARTUP OF NORMAL PROCESSING WAS DELAYED UNTIL MAY 29 BECAUSE OF EQUIPMENT FAILURES. A BRIEF OUTAGE WAS NECESSARY ON MAY 30 TO REPAIR AN HA EXTRACTION COLUMN PULSE GENERATOR OIL LEAK.

PRODUCT QUALITY WAS CHARACTERIZED BY ABOVE NORMAL GAMMA ACTIVITIES WHICH RESULTED PRIMARILY FROM BY-PASSING THE LEAKING HS COLUMN. A TOTAL OF 184 TONS OF URANIUM REQUIRED SILICA-GEL TREATMENT. EARLY IN THE MONTH, THE PLUTONIUM PRODUCT ACTIVITY WAS SLIGHTLY ABOVE SPECIFICATIONS BECAUSE OF ERRATIC PERFORMANCE OF THE PLUTONIUM ANION EXCHANGE UNIT. SOME OF THIS MATERIAL WAS SHIPPED TO RECUPLEX WHILE THE REMAINDER WAS EITHER BLENDED OR RECYCLED.

APPROXIMATELY 26 TONS OF OUT-OF-SPECIFICATION URANIUM PRODUCT PRODUCED IN APRIL WERE REWORKED DURING THE MONTH. IN ADDITION, ONE BATCH OF 1WW WASTE CONTAINING 230 GRAMS OF PLUTONIUM WAS REWORKED.

WASTE LOSSES AVERAGED 0.03% OF THE URANIUM THROUGHPUT AND 0.19% OF THE PLUTONIUM THROUGHPUT.

IODINE EMISSIONS AVERAGED 0.70 CURIES PER DAY.

THE HS COLUMN WAS DECONTAMINATED, REMOVED, AND INSPECTED. FAILURE WAS FOUND TO BE CAUSED BY STRESS FATIGUE OF THE COLUMN METAL. SOME OF THE BOTTOM SUPPORTING BEAMS WILL ALSO REQUIRE REPLACEMENT DUE TO THE HIGH DEGREE OF ACID CORROSION. DURING THE MONTH, THE METAL AREAS OF THE COLUMN WERE CUT OUT AND PATCHED. REPAIR IS IN PROGRESS.

NEPTUNIUM RECOVERY - A TOTAL OF 798 GRAMS OF NEPTUNIUM WAS SEPARATED DURING THE MONTH. THE RECOVERY FLOWSHEET WAS A REFINEMENT OF THAT EMPLOYED IN APRIL, WITH ONLY THE 2A AND 2B FINAL PLUTONIUM CYCLE COLUMNS USED FOR THE PRIMARY RECOVERY AND DECONTAMINATION. PRIOR TO STARTUP ON NEPTUNIUM SEPARATION, TEN TONS OF COLD URANIUM WERE PROCESSED TO PURGE THE SYSTEM OF PLUTONIUM. IN ADDITION, THE 2H AND 2B COLUMNS WERE FLUSHED WITH HOT NITRIC ACID TO IMPROVE THEIR CAPACITY. ON THE FIRST DAY OF OPERATION, SOME NEPTUNIUM WAS LOST TO THE 3WB WASTE STREAM BECAUSE OF FLOODING THE 2A COLUMN. THE QUALITY OF THE SEPARATED NEPTUNIUM WAS EXCELLENT; HOWEVER, THE YIELD WAS SLIGHTLY BELOW EXPECTATION.

FISSION PRODUCT RECOVERY TEST - APPROXIMATELY 2,000 GALLONS OF 1WW WASTE WAS PROCESSED FOR RECOVERY OF Ce-144 AND ZrNb-95. THE ZrNb-95 SAMPLE WAS OBTAINED FOR THE CURTISS-WRIGHT CORP. FOR RESEARCH STUDIES INVOLVING WHEAT IRRADIATION. THE Ce-144 TEST WAS MADE TO DETERMINE THE VARIABLES ASSOCIATED WITH POSSIBLE PLANT RECOVERY EFFORTS.

THE PROCEDURE CALLED FOR THE CENTRIFUGATION OF THE 1WW WASTE SOLUTION TO REMOVE THE 4% SOLIDS MATERIAL (ZrNb-RICH) FOR SLURRY TRANSFER TO A SHIPPING CASK. THE SUPERNATE WAS THEN PRECIPITATED WITH Na_2SO_4 , DIGESTED, CENTRIFUGED, WASHED, AND THEN DISSOLVED AND SAMPLED. A TOTAL OF 350,000 CURIES OF Ce-144 WAS SEPARATED, WHICH REPRESENTED A YIELD OF 45%. A RUTHENIUM DECONTAMINATION FACTOR OF 45 WAS OBTAINED.

THE ZrNb-95 SAMPLE (ONE GALLON) CONTAINED 1,000 CURIES OF Zr, 870 CURIES OF Nb, AND 560 CURIES OF CERIUM.

REDOX - THE PLANT PROCESSED NORMAL URANIUM THROUGH MAY 12 TO HELP RELIEVE A SHORTAGE OF PLUTONIUM FEED TO THE 234-5 BUILDING. DURING THE REMAINDER OF THE MONTH, 94 METAL WAS PROCESSED. DISSOLVER OPERATION CONTINUED TO LIMIT 94-METAL PROCESSING. THE NEW C-2 DISSOLVER WAS INSTALLED EARLY IN THE MONTH, AND THE TWO DISSOLVERS WERE OPERATED CONTINUOUSLY. THE REPAIRED B-2 DISSOLVER WAS INSTALLED ON MAY 30. THE EXTRACTION COLUMNS OPERATED ON 94-METAL PRODUCTION AS FEED WAS AVAILABLE. TEN UNH BATCHES WERE OZONATED TO REDUCE HIGH GAMMA ACTIVITY WHICH RESULTED FROM EXPERIMENTAL PROCESS VARIATIONS. THE HIGH SODIUM CONTENT OF THE UNH STREAM, WHICH REQUIRED BLENDING OF FIVE BATCHES OF PRODUCT DURING THE MONTH, HAS BEEN CORRECTED BY FLOWSHEET ADJUSTMENTS.

WASTE LOSSES AVERAGED 0.18% OF THE URANIUM THROUGHPUT AND 0.51% OF THE PLUTONIUM THROUGHPUT.

IODINE EMISSIONS TOTALLED 9.5 CURIES FOR THE MONTH.

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PLANT OPERATIONS (Cont'd)

SEPARATIONS (Cont'd)

UO₃ - PLANT PRODUCTION OF NORMAL UO₃ TOTALED 452 TONS, 100.4% OF FORECAST. A TOTAL OF 49.2 TONS OF ENRICHED UO₃ WAS PROCESSED, 98.4% OF FORECAST. ALL SHIPPING SCHEDULES FOR NORMAL URANIUM WERE MET. IN ADDITION, 49.2 TONS OF ENRICHED URANIUM WERE SHIPPED.

FIVE-DAY-PER-WEEK OPERATION WAS CONTINUOUS UNTIL MAY 28. THERE WERE NO MAJOR EQUIPMENT FAILURES.

A TOTAL OF 288 TONS OF NITRIC ACID WAS RECOVERED.

REACTOR OPERATION FY-59

SUM OF MAXIMUM POWER LEVELS (UPPER LINE)

SUM OF AVERAGE POWER LEVELS WHILE OPERATING (LOWER LINE)

AVERAGE TIME OPERATED EFFICIENCY

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PRODUCTION FY-59

URANIUM ACCEPTABLY CANNED
(INCLUDES NORMAL & 94-METAL)

UO₃ PRODUCED

MWD PRODUCED (TOTAL)

PLUTONIUM SEPARATED

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PLANT OPERATIONS (CONT'D)

RESEARCH AND DEVELOPMENT

RADIATION DAMAGE IN URANIUM - A SERIES OF FLAT URANIUM TENSILE SPECIMENS HAVE BEEN IRRADIATED TO LOW EXPOSURES AT LOW TEMPERATURES IN THE SHOUT FACILITY AT 105-KW IN ORDER TO FIND THE THRESHOLD OF DETECTABLE NEUTRON DAMAGE TO URANIUM. EXPOSURES RANGE FROM 10^{15} TO 10^{18} NVT OR FROM 5×10^{-7} TO 5×10^{-4} TOTAL PER CENT BURNUP. HARDNESS AND YIELD STRENGTH WERE FOUND TO BE MARKEDLY AFFECTED BY EVEN THE LOWEST IRRADIATION. DAMAGE OCCURS AT TWO DISTINCT RATES IN THE EARLY STAGES. INITIALLY, THERE IS A RAPID CHANGE IN PROPERTIES; THEN A LOWER RATE OF DAMAGE ACCUMULATION IS OBSERVED.

CLUSTER FUEL ELEMENTS - THREE 7-ROD CLUSTER FUEL ELEMENTS WERE DISCHARGED FROM THE ETR 3 X 3 LOOP FACILITY AFTER ATTAINING AN EXPOSURE OF 900 MWD/T. THESE ELEMENTS OPERATED SUCCESSFULLY IN 280°C COOLANT AT POWER LEVELS RANGING FROM 70 TO 114 KW/FT. THE CALCULATED MAXIMUM CORE TEMPERATURE WAS 530°C.

SEVEN 7-ROD CLUSTER FUEL ELEMENTS, FABRICATED FROM 1.6% ENRICHED URANIUM COEXTRUDED IN ZIRCALOY-2 CLADDING, WERE CHARGED INTO THE KER LOOP 2 FACILITY. THESE ELEMENTS ARE BEING IRRADIATED TO COMPARE THE PERFORMANCE OF RODS OF VARIOUS CLAD THICKNESSES AND HAVE A GOAL EXPOSURE OF 5000 MWD/T.

A TOTAL OF FOUR 7-ROD CLUSTER FUEL ELEMENTS HAVE BEEN CHARGED INTO K REACTOR THROUGH-HOLE FACILITIES TO GAIN EXPOSURE PRIOR TO PURPOSELY DEFECTING AN ELEMENT AT TEMPERATURE IN THE ETR 3 X 3 LOOP FACILITY. TWO ELEMENTS WILL REACH GOAL EXPOSURE OF 2000 MWD/T; THE REMAINING TWO WILL REACH A GOAL EXPOSURE OF 1000 MWD/T BEFORE DISCHARGE AND SUBSEQUENT SHIPMENT TO THE ETR.

SIX 7-ROD CLUSTER PROTOTYPE FUEL ELEMENTS WERE BUILT DURING THE MONTH OF SUBSTANDARD COEXTRUDED ROD. THESE ARE INTENDED FOR CHARGE-DISCHARGE AND FLOW TESTS RATHER THAN IRRADIATION. THE ELEMENTS WERE BUILT TO FIT A 2.7-INCH DIAMETER NPR PROCESS TUBE. EACH ELEMENT IS SUPPORTED IN THE PROCESS TUBE BY CLIP-TYPE 0.030-INCH THICK ZIRCALOY-2 SUPPORTS ATTACHED BY RESISTANCE WELDING NEAR EACH END TO THE OUTSIDE SIX RODS OF THE CLUSTER. FABRICATION OF THESE ELEMENTS DEMONSTRATED THE POSSIBILITY OF ASSEMBLING CLUSTER FUEL ELEMENTS WITHIN DIMENSIONAL TOLERANCES OF 0.010-INCH ON THE OUTSIDE DIAMETER AND A ROD-TO-ROD SPACING OF 0.003-INCH.

PRTR UO₂ FUEL ELEMENTS - PREPARATION OF APPROXIMATELY 17200 POUNDS OF ARC FUSED UO₂ AT NORTON COMPANY WAS COMPLETED. IF COMPLETE EVALUATION REVEALS THAT THIS MATERIAL IS OF THE QUALITY INDICATED BY PRELIMINARY ANALYSES (PARTICULARLY O:U RATIO) AT NORTON, IT WILL BE A SIGNIFICANT DEVELOPMENT IN THE PREPARATION OF BOTH SWAGED AND VIBRATORILY COMPACTED FUEL ELEMENTS FOR PRTR TESTING.

THE SECOND 19-ROD FUEL ELEMENT WAS ASSEMBLED THIS MONTH, AND MORE RODS ARE READY FOR ASSEMBLY. THE WIRE WRAPPING MACHINE WAS USED VERY SATISFACTORILY FOR THIS SECOND FUEL ELEMENT. THE TOTAL NUMBER OF ACCEPTABLE RODS PRODUCED IS APPROXIMATELY EQUAL TO THE TOTAL REJECTED, WITH CLADDING DEFECTS ACCOUNTING FOR MOST OF THE REJECTS. TESTS WITH TUBING BEFORE AND AFTER SWAGING ESTABLISHED THAT MANY DEFECTS WERE PRESENT IN THE TUBING BEFORE SWAGING. A SECOND CATEGORY OF REJECTS INVOLVED LOW DENSITY UO₂. POWDER PREPARATION PROCEDURES HAVE BEEN CHANGED TO INCREASE THE DENSITY OF THE UO₂, AND MORE FREQUENT SAMPLING OF POWDER BATCHES IS NOW REQUIRED.

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WITH [REDACTED]

PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

CAI-816, NEW PRODUCTION REACTOR:

DESIGN - DETAILED DESIGN IS 8.8% COMPLETE VERSUS 10% SCHEDULED. THE GENERAL ELECTRIC COMPANY HAS 56 PEOPLE AND THE BURNS & ROE COMPANY HAS 59 PEOPLE WORKING ON DESIGN FOR THIS PROJECT.

DURING THE MONTH, DESIGN CRITERIA WERE RECEIVED FOR THE HORIZONTAL ROD SYSTEM, BASIC REACTOR BUILDING REQUIREMENTS, PILE GAS INSTRUMENTATION, AND FUNCTIONAL REQUIREMENTS OF THE NUCLEAR CONTROL SAFETY SYSTEMS. OUT OF 41 DESIGN CRITERIA ON THE REACTOR, 27 HAVE BEEN ISSUED FOR COMMENT AND 13 HAVE BEEN APPROVED BY THE COMMISSION.

A GROUP OF BURNS & ROE REPRESENTATIVES VISITED THE PROJECT DURING THE WEEK OF MAY 15 TO DISCUSS STEAM BACKUP FACILITIES AND SCHEDULES AND TO HAVE A GENERAL ORIENTATION MEETING WITH THE KAISER ENGINEERS' REPRESENTATIVES.

DEVELOPMENT - THE PROTOTYPE COMPONENT TEST LOOP WAS OPERATED AT PRESSURES UP TO 2000 PSI AND TEMPERATURES UP TO 640°F. OPERATION WAS TERMINATED WHEN THE CANNED ROTOR PUMP DEVELOPED A LEAK.

ROLLED TUBE-TO-NOZZLE JOINTS WITH 13% AND 14% WALL REDUCTION REACHED 63,500 POUNDS AND 58,300 POUNDS, RESPECTIVELY, IN THE PULL OUT TESTS. OF THE JOINTS REPORTED LAST MONTH, THAT WHICH PULLED OUT AT 59,400 POUNDS HAD AN 8% WALL REDUCTION AND THAT WHICH REACHED 67,200 POUNDS HAD A 10%. TWO THREADED TUBE-TO-NOZZLE JOINTS REACHED 146,000 POUNDS AND 149,200 POUNDS IN THE PULL OUT TEST BEFORE FAILURE OCCURRED AT THE ROOT OF THE INNERMOST THREAD.

CG-791, CONFINEMENT OF RADIOACTIVE PARTICULATE MATTER IN 105 BUILDING EXHAUST AIR:

DESIGN IS 93% COMPLETE WITH PHASE I 100% COMPLETE. FIRST COMMENT DRAWINGS ON PHASE II ARE NEARLY READY FOR CIRCULATION. A REVISED PROPOSAL WAS RECEIVED REQUESTING THE INITIATION OF SITE WORK FOR THE FILTER BUILDINGS, ADDITIONAL FUNDS FOR TESTING, AND INITIATION OF FILTER PROCUREMENT.

CGI-824, REMOTELY OPERATED CAP REMOVERS - KE & KW REACTORS:

PREPARATION OF FUNCTIONAL PLANS AND SPECIFICATIONS, FOR THE FIRST CAP REMOVER, IS WELL UNDER WAY. THE METHOD OF PROCUREMENT WILL BE ESTABLISHED IN JUNE.

CG-600, 100-C ALTERATIONS:

A DIRECTIVE WAS ISSUED EXTENDING THE COMPLETION DATE TO JUNE 30, 1960. THE ADDITIONAL TIME WAS REQUIRED FOR COMPLETION OF REPLACEMENT OF THE ROTATING ELEMENTS ON THE 190 PUMPS. AN IMPELLER WITH IMPROVED SERVICE LIFE HAS BEEN DEvised, AND IMPELLERS FOR EACH PUMP ARE BEING FABRICATED FOR INSTALLATION AS EACH ONE IS AVAILABLE.

CG-674, WATER PLANT COMPONENT TEST LOOP:

A REQUEST HAS BEEN RECEIVED TO EXTEND THE COMPLETION DATE THREE MONTHS. THE CHANGE IS REQUIRED SINCE THE SCOPE WAS INCREASED ON A COMPANION PROJECT FOR ADDITIONS TO THE 1706-KER BUILDING WHICH WILL HOUSE THE TEST LOOP.

CGC-813, PLUTONIUM RECOVERY FROM CONTAMINATED MATERIALS, 234-5 BUILDING:

A PROPOSAL HAS BEEN APPROVED COVERING THE COMPLETE PROJECT. DETAILED DESIGN IS 55% COMPLETE. THE DRAFTS OF CONSTRUCTION SPECIFICATIONS AND PRINTS FOR DRAWINGS HAVE BEEN COMMENTED ON.

CGC-830, PROCESSING NONPRODUCTION REACTOR FUELS:

A PROJECT PROPOSAL HAS BEEN RECEIVED COVERING THE RECEIVING AND STORAGE FACILITIES AND FOR COMPLETE DESIGN. DESIGN AND EXPLORATORY WORK ARE UNDER WAY UNDER AN INTERIM AUTHORIZATION.

CRITICAL INCIDENT GAMMA ALARMS:

THE INITIAL INSTRUMENT HAS BEEN TESTED IN A HIGH FLUX GAMMA FIELD AND PERFORMED SUCCESSFULLY AT ALBUQUERQUE OPERATIONS OFFICE.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PROJECT AND DESIGN STUDIES (CONT'D)

CA-681, HANFORD EQUIPMENT IN THE ETR:

THE IN-PILE TUBE ASSEMBLY FOR THE 6" X 9" HOLE HAS BEEN INSTALLED. AT THE REQUEST OF THE OPERATING CONTRACTOR, THE SUBPILE ROOM PIPING IS BEING MODIFIED TO PROVIDE MORE SPACE FOR ROD DRIVE-MECHANISM REPAIRS. NPR RUPTURE DETECTION INSTRUMENTATION FOR IN-PILE TESTING IN ETR IS ON ORDER.

PLANT CONSTRUCTION

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

PROJECT	PROJECT PROPOSAL NO.	MAJOR PROJECTS				DESIGN % ACTUAL COMPL.	PRESENT WORKING ESTIMATE (THOUSANDS)
		ACTUAL STARTING DATE	SCHED. COMP. DATE	CONSTRUCTION COMPLETION			
				% SCHED.	% ACTUAL		
CITY HALL 1/	AEC-157	3-24-58	5-1-59	100	99	100	\$ 635
PRTR	AEC-167	3-6-58	8-30-60	24	26	100	12,750
PUREX WASTE FACILITY	CG-719	8-27-58	11-30-59	99	94	100	1,068
RMC BUTTON LINE, 234-5	CG-734	2-18-58	1-31-60	81	80	100	1,480
RMC FAB. LINE, 234-5	CG-745	2-18-58	7-1-59	99	95	100	1,050
PU FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	59	67	92	4,000
HIGH LEVEL RADIO- CHEMISTRY FAC.	CA-749	8-14-58	6-30-59	64	65	100	960
MET. DEV. FAC., 306 BLDG. ADDN	CA-744	3-20-59	9-1-60	5	6	88	2,685
REACTOR CONFINEMENT	CG-791	3-31-59	11-15-59 ^{2/}		9	93	875 ^{3/}
306 BLDG. PILOT PLANT MODIF.	CGF-810	1-29-59	3-15-60	20	20	90	755

CG-723, CONVERSION OF RECUPLEX TO A MANUFACTURING FACILITY - WORK HAS BEEN RESUMED ON THE PROJECT. COMPLETION OF THE COLD CHEMICAL HOOD IS RECEIVING PRIORITY ATTENTION.

CA-764, TEST WELLS - 216 BC CRIB AREA - THIS PROJECT HAS BEEN COMPLETED.

AEC-160, RECIRCULATING GAS-COOLED LOOP - FABRICATION OF THE IN-PILE TUBE WAS COMPLETED AND TESTING IS UNDER WAY. FACILITIES FOR REMOVAL AND REMOTE HANDLING OF THE IN-PILE PORTION OF THE LOOP HAVE BEEN SATISFACTORILY TESTED.

CA-747, PLUTONIUM FABRICATION PILOT PLANT -- L. H. HOFFMAN - THE PAINTERS, WHO WENT ON STRIKE MAY 10, 1959, RETURNED TO WORK MAY 26, 1959.

CA-749, HIGH LEVEL RADIOCHEMISTRY FACILITY - MAGNETITE CONCRETE FOR THE CELL AREA IS BEING PLACED BY PNEUMATIC APPLICATION.

AEC-167, PLUTONIUM RECYCLE TEST REACTOR - PHASE II:

JOHN P. HOPKINS - PHASE II. THE PHASE II PORTION OF THE CONTAINMENT VESSEL WAS COMPLETED WITH EXCEPTIONS AND RELEASED TO THE PHASE III CONTRACTOR ON MAY 25, 1959.

1/ CITY HALL IS INCLUDED IN DISPOSAL PROGRAM.

2/ DIRECTIVE COMPLETION DATE. SCHEDULE IS BEING PREPARED.

3/ PHASE I ONLY OF \$6,000,000 TOTAL PROGRAM.

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HANFORD
DOCUMENT NO. 72358-*let*

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

AEC-167, PLUTONIUM RECYCLE TEST REACTOR - PHASE II (CONT'D)

L. H. HOFFMAN - PHASE II. THE CONTRACT WAS SCHEDULED TO BE COMPLETED BY MAY 31, 1959; HOWEVER, COMPLETION HAS BEEN DELAYED BECAUSE OF THE PAINTERS' STRIKE.

GEORGE A GRANT - PHASE II-A. THE CONTRACTOR REMOVED ALL PUMPING AND ASSOCIATED EQUIPMENT FROM THE RIVER PUMP HOUSE AREA ON MAY 27, 1959. ALL CONCRETE WORK HAD BEEN COMPLETED.

SHAW AND ESTES - PHASE III. THE CONTRACTOR WAS GIVEN UNRESTRICTED ACCESS TO THE CONTAINMENT VESSEL ON MAY 25, 1959.

CONSTRUCTION CONTRACTS - THERE WERE FIVE CONSTRUCTION BID OPENINGS DURING THE MONTH OF MAY.

AN AWARD WAS MADE ON MAY 25, 1959, TO THE HOWARD S. WRIGHT COMPANY FOR CONTRACT AT(45-1)-1446, CRITICAL MASS LABORATORY FACILITIES, 200 EAST AREA. THE WRIGHT COMPANY SUBMITTED THE LOW BID IN THE AMOUNT OF \$442,025.00.

THE CPFF CONTRACT WITH KAISER ENGINEERS FOR THE CONSTRUCTION OF A COMPLETE AND OPERABLE 100-N NUCLEAR PRODUCTION REACTOR AND RELATED WORK WAS APPROVED BY E. J. BLOCH, DIRECTOR, DIVISION OF PRODUCTION ON MAY 8, 1959, AND ENTERED INTO BY HOO AND KAISER ON MAY 13, 1959.

PROCUREMENT - NEGOTIATIONS ARE CONTINUING WITH THE CHASE COPPER AND BRASS COMPANY TO ARRIVE AT A MUTUALLY AGREEABLE CONTRACT FOR NPR ZIRCALOY TUBES.

SIXTEEN AWARDS MADE BY GENERAL ELECTRIC WERE APPROVED IN THE AMOUNT OF \$1,097,413.73 FOR THE MONTH OF MAY. THERE WERE 286 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$222,601.64, PLACED BY THE ATOMIC ENERGY COMMISSION.

A CONTRACT HAS BEEN AWARDED TO THE ALLEGHENY LUDLUM STEEL CORPORATION IN THE AMOUNT OF \$911,760.00 FOR A PILOT ORDER OF NPR TUBES. FABRICATION HAS BEEN STARTED AND AS OF JUNE 1, 1959, THE FIRST LOT OF ZIRCALOY TO PRODUCE 30 TUBES HAS BEEN COMPLETED THROUGH THE BILLET FORGING OPERATION.

TRAFFIC AND TRANSPORTATION - THE APPLICATION FOR A REDUCTION IN RATES ON URANIUM OXIDE MOVING FROM HANFORD TO PADUCAH AND OAK RIDGE WAS DECLINED BY THE TRANSCONTINENTAL FREIGHT BUREAU ON MAY 29, 1959. THIS APPLICATION SOUGHT TO HAVE REDUCED RATES PUBLISHED IN THE TRANSCONTINENTAL COMMODITY TARIFF RATHER THAN IN THE FORM OF THE PRESENTLY APPLICABLE SECTION 22 QUOTATION. AN OBJECTION TO THE DECLINATION OF THE PROPOSAL HAS BEEN REGISTERED BY THE MILWAUKEE ROAD AND THE LATTER HAS REQUESTED THIS OFFICE TO FURNISH THEM ANY ADDITIONAL ARGUMENTS WE MAY HAVE IN JUSTIFICATION OF THE PROPOSAL. THIS DATA IS BEING PREPARED FOR DISPATCH TO THE GENERAL TRAFFIC MANAGER OF THE MILWAUKEE IN CHICAGO.

ON MAY 11, 1959, NEGOTIATIONS WERE INITIATED WITH LOCAL MOTOR CARRIERS FOR THE PURPOSE OF ESTABLISHING A FREE DIVERSION PRIVILEGE ON LESS THAN TRUCKLOAD SHIPMENTS CONSIGNED TO RICHLAND BUT REQUIRED TO BE UNLOADED AT HANFORD AND VICE VERSA. AVAILABILITY OF THIS PRIVILEGE WILL AVOID ASSESSMENT OF CERTAIN PENALTY CHARGES RECENTLY APPROVED FOR PUBLICATION BY THE PACIFIC INLAND TARIFF BUREAU FOR APPLICATION GENERALLY THROUGHOUT THE PACIFIC COAST STATES.

[REDACTED]

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

JUN 12 1959

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 May, 1959.
The "Secret" portion, Part I, is forwarded as a separate
report.

Enclosure:
Monthly Status and Progress Report, Part II

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MONTHLY STATUS AND PROGRESS REPORT:

MAY 1959

PART II

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

MAY 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 MAY 1959:

	<u>MAY 1</u>	<u>MAY 31</u>
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	410	346
1. TOTAL HOUSES OCCUPIED	278	228
2. TOTAL HOUSES UNOCCUPIED	132	118
(A TOTAL OF 3,740 SINGLE HOUSES AND 869 DUPLEXES SOLD - 5,478 UNITS)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	132	131
2. TOTAL APARTMENTS UNOCCUPIED	2	3

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>HOUSES</u>	<u>APTS.</u>	<u>HOUSES</u>	<u>APTS.</u>	<u>TOTAL UNITS</u>
TOTAL UNITS	280	220	400	100	1,000
RENTED	100	116	394	83	693
VACANT	180	104	6	17	307

THERE HAS BEEN AN INCREASE IN OCCUPANCY OF THE WHERRY ACT HOUSING DURING THE MONTH OF 54 UNITS - 45 APARTMENTS AND 9 HOUSES - PRIMARILY RESULTING FROM REDUCTION IN COLUMBIA HEIGHTS APARTMENT RENTS FOR MILITARY PERSONNEL AND PUBLICITY ON FHA'S PLAN TO SELL COLUMBIA HEIGHTS HOUSES.

DISPOSAL - HHFA OPENED BIDS ON VACANT RESIDENTIAL PARCELS ON MAY 25, 1959, AND GOT EXTREMELY HIGH OFFERS ON MOST OF THEM.

THE HHFA OFFERED ONE VACANT LOT, ON TOTTEN AVENUE, TO A FORMER INHABITANT.

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

<u>TYPE</u>	<u>NUMBER OFFERED</u>	<u>NUMBER SOLD TO 5-31-59</u>	<u>ADDITIONAL GOOD FAITH DEPOSITS</u>
SINGLE	3,788	3,740	32
DUPLEX	1,018	869	74
TOTAL	4,806	4,609	106
COMMERCIAL	124	10	13
NON-PROFIT	13	2	2

A TOTAL OF 124 LOTS HAVE BEEN SOLD, WITH 24 ADDITIONAL GOOD FAITH DEPOSITS.

COMMERCIAL - THE FEDERAL COURT, IN THE CASE OF TYREE AND CLOUD VS. AEC, HHFA AND K. K. CAMPBELL, RULED THAT AEC DISPOSAL PROCEDURES AND RULINGS ARE NOT SUBJECT TO COURT REVIEW BECAUSE OF SECTION 115 OF PUBLIC LAW 221. NO APPEAL TO THIS DECISION WAS FILED.

MUNICIPAL - THE CITY HALL WAS TURNED OVER TO GENERAL ELECTRIC COMPANY ON MAY 13, 1959, AND THE CITY FORCES MOVED IN ON MAY 18. THE TELEPHONE STRIKE WAS SETTLED WHICH MADE IT POSSIBLE FOR TELEPHONES TO BE INSTALLED IN THE CITY HALL AND THE OFFICES OCCUPIED.

THE DEED AND BILL OF SALE ON THE CITY HALL, THREE FIRE STATIONS AND THE DOG POUND WERE DELIVERED TO THE CITY ON JUNE 1.

THE CITY TOOK OVER THE FIRE, POLICE, DOG POUNDMASTER, AND ENGINEER FUNCTIONS AT 12:01 A.M. ON JUNE 1.

COMMUNITY OPERATIONS (CONT'D)

MUNICIPAL (CONT'D)

THE PUBLIC HEALTH OPERATION MOVED INTO THE NEW CITY HALL, BUT THE OPERATION WILL NOT BE TRANSFERRED TO THE CITY UNTIL JULY 1.

THE STATE ATTORNEY GENERAL RULED THAT MAXIMUM HOUR LAW IS APPLICABLE TO CITIES, MAKING PROBABLE A LARGE INCREASE IN FIRE AND POLICE PAY FOR ALL WASHINGTON CITIES.

MR. JAMES WILLIS, OF SYDNEY, NEBRASKA, WAS APPOINTED BY THE CITY MANAGER TO HEAD UP THE CITY'S FINANCE DEPARTMENT.

THE CITY MANAGER OPENED BIDS ON THREE GARBAGE TRUCKS.

A TWO-WEEK LEASE TO THE CITY WAS EXECUTED ON MAY 18, 1959, WHICH PERMITTED THE CITY TO ANNEX CERTAIN LAND GENERALLY FROM THE BY-PASS HIGHWAY TO THE YAKIMA RIVER AND FROM THE EXISTING CITY LIMITS TO CAMP HANFORD INTO THE CORPORATE LIMITS UNDER STATE LAW. THIS WAS DONE BY THE CITY ON MAY 25. THE CITY IMPOSED ZONING CONTROLS ON THESE LANDS.

MR. HAROLD A. ROOT WAS APPOINTED ACTING MANAGER OF THE GENERAL ELECTRIC COMPANY'S COMMUNITY OPERATIONS. THIS POSITION WAS FORMERLY HELD BY C. W. WEEKS.

REAL ESTATE - MR. WILLIAM A. BUGGE, STATE HIGHWAY DIRECTOR, AND MR. RHEA PYLE, DISTRICT HIGHWAY ENGINEER, MET WITH HOO REPRESENTATIVES TO DISCUSS THE PROPOSED COLD CREEK HIGHWAY. THEY WERE JOINED BY MR. MIKE MCCORMACK, STATE REPRESENTATIVE, AND MR. SAM VOLPENTEST, REPRESENTING THE CHAMBER OF COMMERCE, AT THE MEETING.

LABOR RELATIONS

BECAUSE OF AN IMPASSE IN WAGE NEGOTIATIONS BETWEEN THE PAINTERS UNION AND THE LOWER COLUMBIA BASIN PAINTING & DECORATING CONTRACTORS ASSOCIATION, PAINTERS EMPLOYED IN THE TRI-CITY AREA ENGAGED IN A WORK STOPPAGE FROM MAY 11 THROUGH MAY 25 WHEN A SETTLEMENT WAS REACHED BETWEEN THE PARTIES WITH THE ASSISTANCE OF THE WASHINGTON STATE MEDIATION SERVICE. NO PROJECT COST-TYPE CONTRACTORS' OPERATIONS WERE AFFECTED BY THE STOPPAGE. HOWEVER, SOME FIXED-PRICE PAINTING SUBCONTRACTORS ENGAGED IN WORK ON PRTR WERE FORCED TO DISCONTINUE WORK DURING THE STRIKE. ALL CONSTRUCTION PAINTING OPERATIONS ON THE PROJECT WERE RESUMED ON MAY 26 WHEN THE MEN RETURNED TO WORK.

PERSONNEL (ON-SITE)

	<u>MAY 1</u>	<u>MAY 31</u>
ATOMIC ENERGY COMMISSION	278	273
GENERAL ELECTRIC COMPANY	7,968	7,963
TOTAL CONSTRUCTION PERSONNEL	<u>656</u>	<u>669</u>
TOTAL PROJECT PERSONNEL	8,902	8,905

KEY PERSONNEL CHANGES:

RESIGNATION - HENRY A. RUST, CHIEF
AIR PATROL AND SHIPMENT BRANCH
SECURITY DIVISION

DECLASSIFIED

END

**DATE
FILMED
9/01/92**