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SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

JULY 1960

PART I

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MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

JULY 1960

PART I

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HIGHLIGHT STATEMENT - JULY 1960

OPERATIONS

THE NET PRODUCTION OF CANNED FUEL ELEMENTS WAS 549 TONS. THIS WAS 92.3% OF FORECAST AND CONSISTED OF 50 TONS OF SOLID AND 427 TONS OF I&E NORMAL-URANIUM, AND 72 TONS OF I&E 94-METAL. YIELDS WERE 77.9% FOR SOLID AND 88% FOR I&E NORMAL-URANIUM AND 87.1% FOR 94-METAL PIECES.

IN-REACTOR PRODUCTION TOTALLED 100.3% OF FORECAST. THE OVER-ALL REACTOR TIME-OPERATED EFFICIENCY WAS 79.3%. THERE WERE 11 FUEL ELEMENT FAILURES; THESE INCLUDED 4 I&E NORMAL-URANIUM, 3 I&E 94-METAL, 2 SOLID NORMAL-URANIUM, AND 2 KER TEST PIECES.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 84.4% OF FORECAST, WITH 87.9% OF THE TOTAL PRODUCED BY PUREX AND 12.1% BY REDOX. PRODUCTION FELL BELOW FORECAST BECAUSE OF PARTITIONING CYCLE FAILURES AND F-11 CONCENTRATOR REPLACEMENT AT PUREX, PLUS AN UNUSUALLY LONG TIME FOR NEPTUNIUM RECOVERY AT REDOX.

PRODUCTION OF NORMAL UO_3 TOTALLED 398.7 TONS, 99.7% OF FORECAST. NO 94 UO_3 WAS SCHEDULED FOR PRODUCTION THIS MONTH AND NONE WAS PRODUCED. ALL SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 97% COMPLETE VS. 99% SCHEDULED. (SEE PART I, PAGE 9.)

REACTOR CONFINEMENT - DESIGN IS 98% COMPLETE AND CONSTRUCTION IS 47% COMPLETE VS. 45% SCHEDULED. (SEE PART I, PAGE 9.)

NEW PRODUCTION REACTOR - DESIGN IS 61% COMPLETE AND CONSTRUCTION IS 5.7% COMPLETE VS. 5.5% ACTUAL. (SEE PART I, PAGES 10 AND 11.)

COMMUNITY

DISPOSAL - 5,198 OF 5,360 SALES PROPERTIES HAVE BEEN SOLD AND AN ADDITIONAL 24 GOOD FAITH DEPOSITS PLACED. (SEE PART II, PAGES 3 AND 4.)

PLANT OPERATIONSMETAL PREPARATION

CANNING - THE NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALED 549 TONS, 92.3% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAL URANIUM		
SOLID	50 TONS	77.9% YIELD
I&E	427 TONS	88.0% YIELD
94 METAL - I&E	72 TONS	87.1% YIELD

FIVE CANNING LINES OPERATED ON TWO SHIFTS ON A FIVE-DAY-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 88.7%.

AT THE END OF THE REPORTING PERIOD, THE COMBINED INVENTORY OF BARE, IN PROCESS, AND FINISHED ACCEPTABLE NORMAL-URANIUM FUEL ELEMENTS FOR ROUTINE PRODUCTION MODELS VARIED BY TYPE FROM 3 TO 5 MONTHS' SUPPLY. THE COMBINED INVENTORY FOR 94-METAL PIECES VARIED BY TYPE FROM 2 TO 4 MONTHS' SUPPLY. THE INVENTORY OF CAPS AND CANS AT MONTH END WAS 3.3 MONTHS' SUPPLY.

AUTOCCLAVE FAILURES - ONE FUEL ELEMENT FAILED DURING AUTOCCLAVE TESTING IN JULY. THE FAILED PIECE WAS A NORMAL SOLID ELEMENT. THE FAILURE WAS CAUSED BY A WELD BURN THROUGH THE CAN WALL.

SCRAP SHIPMENTS - THERE WAS NO PRODUCTION SCRAP SHIPPED FROM HANFORD IN JULY. HOWEVER, APPROXIMATELY 1.7 TONS OF 1.47% ENRICHED PRODUCTION-TEST MATERIAL WAS SHIPPED TO FERNALD DURING THE MONTH.

REACTOR OPERATION

DURING JULY, REACTOR PRODUCTION IN TERMS OF INDEX ^{2/} WAS:

	<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)	66.6	75.0	68.0	67.6	67.0	69.0	143.6	146.0	702.8
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	62.7	71.7	62.2	64.7	62.0	64.9	134.7	136.5	659.4
TIME-OPERATED EFFICIENCY	81.5	78.5	72.8	89.8	69.9	77.3	78.6	86.2	79.3

IN-REACTOR PRODUCTION WAS 100.3% OF FORECAST ^{1/}. THE OVER-ALL TIME-OPERATED EFFICIENCY WAS 79.3% AS COMPARED WITH A FORECAST FIGURE OF 82%. THE PRODUCTION EFFICIENCY ^{3/} WAS 80.1%.

THERE WERE 11 FUEL ELEMENT FAILURES DURING JULY. OF THESE, 4 WERE I&E NORMAL-URANIUM, 3 WERE I&E 94-METAL, 2 WERE SOLID NORMAL-URANIUM, AND 2 WERE KER TEST ELEMENTS. THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,198, INVOLVING 1,218 PIECES (133 I&E). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 81, INVOLVING 83 PIECES.

EQUILIBRIUM POWER LEVELS WERE LIMITED PRIMARILY BY FUEL ELEMENT FAILURE CONTROL AT C, F, KE, AND KW REACTORS. EQUILIBRIUM POWER LEVELS AT B, D, DR, AND H REACTORS WERE LIMITED BY BULK OUTLET WATER TEMPERATURE LIMITATIONS.

EQUIPMENT EXPERIENCE - A TOTAL OF 163 PROCESS TUBES WERE REPLACED: 76 AT F, 50 AT C, 30 AT D, 5 AT B, AND 1 EACH AT DR AND KW. THE TUBES INSTALLED IN C REACTOR WERE RIBBLESS ZIRCALOY, RAISING THE TOTAL NUMBER OF TUBES OF THIS TYPE IN C REACTOR TO 69. ONE TUBE, 2 VAN STONE, AND 3 WATER LEAKS WERE CORRECTED.

^{1/} DOCUMENT HW-66052 (HAN-76057) JOHNSON/TRAVIS, DATED JULY 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

^{2/} DOCUMENT HAN-76029, QUINN/TRAVIS, DATED JULY 20, 1960, SUBJECT "REVISION OF INDEX NUMBERS."

^{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)

EQUIPMENT EXPERIENCE (CONT'D)

CHANNEL 1192-F WAS OVERBORED 200 MILS DURING A REACTOR OUTAGE. THE FRONT OF THE GRAPHITE CHANNEL CONTAINS ALTERNATE HARD AND SOFT AREAS IN AN APPARENT RANDOM PATTERN, AND CHATTERING OF THE DRILLING RIG RESULTS. THE DOWNSTREAM GRAPHITE IS SIMILAR BUT LESS SEVERE, WHEREAS THE CENTER OF THE PILE CUTS EASILY. THE NEW EQUIPMENT PERFORMED VERY WELL, BUT THERE ARE INDICATIONS THAT ITS POWER MAY BE LESS THAN OPTIMUM.

KER TESTING - THE ZIRCALOY-2 CLAD NORMAL-URANIUM THERMOCOUPLE ELEMENT BEING IRRADIATED IN KER-1 TO EVALUATE FILM EFFECTS WAS DISCHARGED JULY 7. THE ELEMENT RUPTURED AFTER IT HAD REACHED AN EXPOSURE OF 856 MWD/T.

THE FOUR 18-INCH ENRICHED ZIRCALOY-2 JACKETED TUBE-IN-TUBE ELEMENTS IN KER-2 WERE DISCHARGED FOLLOWING FAILURE AT AN EXPOSURE OF 3,320 MWD/T IN 272° C COOLANT. THE FAILURE WAS A LONGITUDINAL SPLIT IN THE ZIRCALOY-2 JACKET ON THE OUTER SURFACE OF THE INNER TUBE OF THE UPSTREAM FUEL ELEMENT IN THE CHARGE.

REACTOR OUTAGES

REACTOR	DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
B	7-10	7-13	55.8	REMOVE A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 1265 AND CHARGE-DISCHARGE.
	7-23	7-25	46.4	REMOVE A STUCK I&E NORMAL-URANIUM RUPTURE FROM TUBE 1383 AND TUBE REPLACEMENT.
	7-26	7-28	35.1	PANELLIT TRIP WHEN NO. 8 PUMP WAS LOST DUE TO A BURNED OUT MOTOR COIL.
C	7-9	7-11	59.4	REMOVE AN I&E 94-METAL RUPTURE FROM TUBE 2072, CHARGE-DISCHARGE, AND RAW WATER EXPORT LINE TIE-IN.
	7-24	7-28	98.0	SCHEDULED CHARGE-DISCHARGE AND TUBE REPLACEMENT.
	7-28	7-28	2.5	REMOVE A SOLID NORMAL-URANIUM RUPTURE FROM TUBE 2252.
D	7-9	7-15	135.5	SCHEDULED CHARGE-DISCHARGE AND TUBE REPLACEMENT.
	7-21	7-21	0.2	PANELLIT TRIP DUE TO A RUPTURED BOURDON TUBE ON GAUGE 1779.
	7-21	7-22	32.3	TEMPERATURE CONTROL.
	7-22	7-22	0.5	TRIPPED BY A 190-POWER FAILURE WHILE ATTEMPTING TO PUT A PUMP ON THE LINE.
	7-29	7-29	0.2	PANELLIT TRIP DUE TO A RUPTURED BOURDON TUBE ON GAUGE 3695.
	7-29	7-31	33.6	REMOVE AN I&E 94-METAL RUPTURE FROM TUBE 3660 AND MISCELLANEOUS MAINTENANCE.
	7-31	7-31	0.3	PANELLIT TRIP.
DR	6-30	7-2	33.6	COMPLETED CHARGE-DISCHARGE FOLLOWING PANELLIT TRIP.
	7-12	7-14	45.9	REMOVE AN I&E 94-METAL RUPTURE FROM TUBE 0677 AND CHARGE-DISCHARGE.
	7-31	STILL DOWN		REMOVE AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2665 AND CHARGE-DISCHARGE.
F	7-12	7-19	178.0	SCHEDULED CHARGE-DISCHARGE, TUBE REPLACEMENT, AND MAINTENANCE.
	7-20	7-22	45.6	WATER LEAK.
H	6-26	7-2	155.9	CONCLUDED SCHEDULED CHARGE-DISCHARGE OUTAGE WITH TUBE REPLACEMENT AND BALL 3X WORK.
	7-2	7-2	0.3	PANELLIT TRIP.
	7-14	7-17	76.6	REMOVE A STUCK SOLID NORMAL-URANIUM RUPTURE FROM TUBE 2352, CHARGE-DISCHARGE, AND LEAK TESTING.
	7-17	7-17	1.0	CHANGED VENTURI ON TUBE 2456.
	7-20	7-23	48.4	LEAK TESTING AND CHARGE-DISCHARGE.
	7-26	7-26	0.4	INSTALLATION OF A HOLDING PLATE ON FRONT FACE CAP 4371.
KE	7-3	7-6	71.9	TRIP DUE TO A RUPTURE IN KER LOOP 2 AND CHARGE-DISCHARGE.
	7-7	7-8	24.2	TRIPPED DUE TO A RUPTURE IN KER LOOP 1.
	7-15	7-16	32.0	EXIT TEMPERATURE TRIP ON THE LOOP 4 HEAT EXCHANGER.
	7-16	7-16	4.6	TRIPPED BY MALFUNCTION OF WATER CROSS-TIE BY-PASS SWITCH.
	7-17	7-18	26.5	PANELLIT TRIP CAUSED BY LOSS OF NO. 1 LOW-LIFT PUMP.

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

REACTOR	DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
KW	7-4 7-17	7-7 7-19	70.4 32.1	REMOVE AN I&E NORMAL-URANIUM RUPTURE FROM TUBE 2974. PANELLIT TRIP, CHARGE-DISCHARGE, AND MISCELLANEOUS MAINTENANCE.

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)							
2974-KW	7-4	1395	377	3037	0.88	I&E	HOT SPOT.
1265-B	7-10	1190	305	842	0.53	I&E	HOT SPOT.
2352-H	7-14	543	686	1048	0.64	SOLID	SPLIT.
1383-B	7-23	1120	532	1113	0.71	I&E	UNKNOWN.
2252-C	7-28	590	616	343	0.19	SOLID	SPLIT.
2665-DR	7-31	1006	473	770	0.47	I&E	UNDETERMINED.
(94 METAL)							
2072-C	7-9	1225	387	630	0.35	I&E	HOT SPOT.
0677-DR	7-12	1161	426	2338	1.44	I&E	HOT SPOT.
3660-D	7-29	1022	461	1201	0.77	I&E	HOT SPOT.
(TEST PIECES IN KER LOOPS)							
2864-KE	7-3		3320	1552	0.46	TUBE-IN- TUBE	JACKET SPLIT.
2160-KE	7-7		856	4737	1.40	THERMO- COUPLE SLUG	NOT AVAILABLE.

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 84.4% OF FORECAST ^{2/}. PUREX SEPARATED 87.9% OF THIS WHILE REDOX SEPARATED 12.1%. PRODUCTION FELL BELOW FORECAST BECAUSE OF PARTITIONING CYCLE FAILURES AND F-11 WASTE CONCENTRATOR REPLACEMENT AT PUREX, PLUS AN UNUSUALLY LONG DOWNTIME FOR NEPTUNIUM RECOVERY RUN AT REDOX.

PUREX - PUREX PROCESSED 423 TONS OF URANIUM.

OPERATIONS WERE CONTINUOUS FROM THE 1ST TO THE 25TH OF JULY. DURING THIS TIME, TWO PARTITIONING CYCLE FAILURES MADE IT NECESSARY TO OPERATE ON TOTAL RECYCLE FOR FIVE DAYS. THESE FAILURES OCCURRED ON THE 3RD AND 7TH OF JULY. WITH THE PARTITIONING CYCLE FAILURE, THE GAMMA ACTIVITY OF THE ORGANIC INCREASED SHARPLY. AFTER RETURNING TO NORMAL OPERATION, DECONTAMINATION REMAINED MARGINAL. IT WAS NECESSARY TO PROCESS ALL OF THE PRODUCT URANIUM THROUGH THE SILICA GEL FACILITIES. IN-SPECIFICATION PRODUCT PLUTONIUM WAS OBTAINED BY THE ADDITION OF SODIUM FLUORIDE TO THE XAF FEED, WHICH INCREASED THE DF OF THE ANION EXCHANGE UNIT SEVEN-FOLD. ON JULY 25, THE F-11 WASTE CONCENTRATOR VESSEL DEVELOPED A LEAK AND CAUSED AN UNSCHEDULED SHUTDOWN. THE OPERATIONS WERE STILL DOWN AT MONTH END.

INVESTIGATION OF THE PARTITIONING CYCLE DATA REVEALED NO DEFINITE PROCESS REASON FOR THE FAILURE. HOWEVER, A STUDY OF CIRCUMSTANCES POINTS TO A FOREIGN ORGANIC IMPURITY DISCOVERED IN THE NEW NITRIC ACID RECEIVED FROM THE VENDOR. NEW NITRIC ACID WAS USED THROUGHOUT THE PROCESS AT THE TIME OF BOTH FAILURES.

THE PUREX SILICA GEL FACILITY PROCESSED 350 TONS OF URANIUM AND 50 TONS OF PUREX URANIUM WERE SHIPPED TO REDOX FOR SILICA GEL PROCESSING. WASTE LOSSES FOR THE MONTH TOTALLED 0.09% OF THE URANIUM THROUGHPUT AND 0.82% OF THE PLUTONIUM THROUGHPUT.

THE ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE AVERAGED 0.68 CURIE PER DAY. A MONTHLY TOTAL OF 21.0 CURIES WITH A DAILY MAXIMUM OF 1.3 CURIES WAS MEASURED.

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PLANT OPERATIONS (CONT'D)

SEPARATIONS (CONT'D)

REDOX - THE REDOX PLANT PROCESSED 78.5 TONS OF NORMAL URANIUM DURING JULY.

THE PLANT OPERATED CONTINUOUSLY ON NORMAL URANIUM UNTIL JULY 14. THE LAST HALF OF THE MONTH WAS DEVOTED TO PROCESSING THE NEPTUNIUM INVENTORY. APPROXIMATELY 430 GRAMS OF A 700-GRAM INVENTORY WAS RECOVERED. POOR ACID CONTROL DURING SEPARATION AND RECOVERY PASSES AND OPERATING DIFFICULTIES CAUSED ABOUT 40% NEPTUNIUM LOSS TO THE WASTE CELL. THIS MADE IT NECESSARY TO RE-WORK WASTE AND COMBINE INVENTORY FOR A SECOND TRY. AT MONTH END, THE RECOVERY RUN WAS STILL UNDER WAY.

DURING THE NEPTUNIUM RECOVERY RUN, THE DISSOLVERS WERE UTILIZED TO DISSOLVE 12 TWO-TON TEST BATCHES AND ONE E-N LOADING TEST BATCH.

THE MULTIPURPOSE DISSOLVER WAS INSPECTED BY TELEVISION. THE STEEL CYLINDER FORMING THE INSIDE WALL OF THE ANNULUS HAD A HOLE OF ABOUT TWO FEET IN DIAMETER. THE HOLE WAS THREE FEET BELOW THE DISTRIBUTION CONE. THERE WAS NO VISIBLE DAMAGE TO THE OUTSIDE SHELL. THE UNIT HAS BEEN REMOVED AND SHIPPED TO THE DECONTAMINATION FACILITY. A STANDARD REDOX DISSOLVER WAS TEMPORARILY INSTALLED IN B-CELL UNTIL THE NEW UNIT IS COMPLETED.

THE CONNECTION OF THE L-6 (CRITICALLY SAFE PRODUCT SAMPLER TANK) WITH THE L-16 (NONCRITICALLY SAFE RECEIVING AND SAMPLING TANK) BY A COMMON UNLOADING LINE PERMITTED SOLUTION TO TRANSFER TO EITHER TANK. AS A RESULT, THE CRITICAL MASS CONTROL LIMIT OF L-16 TANK WAS EXCEEDED BY A FACTOR OF THREE, AND THE PU-CONCENTRATION MONITOR ALARM WAS SET OFF. THE SOLUTION WAS DILUTED AND REMOVED FROM THE TANK. ALTHOUGH A NUCLEAR INCIDENT DID NOT OCCUR, THE PRESENT L-16 TANK WILL BE REPLACED WITH A CRITICALLY SAFE TANK BEFORE PROCESSING CONTINUES.

WASTE LOSSES FOR JULY WERE 0.15% OF THE URANIUM THROUGHPUT AND 0.56% OF THE PLUTONIUM THROUGHPUT. TOTAL IODINE EMISSION FOR THE STACK WAS 60.62 CURIES WITH A DAILY MAXIMUM OF 17.8 CURIES. AN IODINE-131 BREAK-THROUGH OCCURRED EARLY IN THE MONTH WHILE DISSOLVING 98- TO 125-DAY COOLED URANIUM.

UO₃ - PRODUCTION FOR JULY TOTALLED 398.7 TONS, 99.7% OF FORECAST, FOR NORMAL UO₃. NO 94 UO₃ WAS SCHEDULED FOR PRODUCTION THIS MONTH. ALL UO₃ SHIPPING SCHEDULES WERE MET.

OPERATIONS WERE DOWN AS SCHEDULED FROM JUNE 27 TO JULY 11 FOR A TWO-WEEK VACATION PERIOD.

RESEARCH AND DEVELOPMENT

A CASTING YIELD OF 94.5% WAS OBTAINED AND ACCEPTANCE OF THE FUEL ELEMENTS BY THE ULTRASONIC BOND TEST YIELDED 94.5% FOR JULY.

DEVELOPMENT OF AN I&E-TYPE FUEL ELEMENT IS CONTINUING. THE ELEMENT IS DESIGNED TO HAVE AN INNER AND OUTER CLADDING THICKNESS OF 0.100 INCH AND A CORE THICKNESS OF 0.064 INCH.

1/ AT TIME OF RUPTURE.

2/ DOCUMENT HW-66052 (HAN-76057), JOHNSON/TRAVIS, DATED JULY 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

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PLANT ACQUISITION AND CONSTRUCTIONPROJECT AND DESIGN STUDIES

AEC-167, PLUTONIUM RECYCLE TEST REACTOR - A REVISED PROJECT PROPOSAL HAS BEEN PREPARED WITH A TOTAL PROJECT ESTIMATE OF \$13,140,000 AND WITH A FINAL COMPLETION DATE OF JUNE 30, 1961. THE EXTENSION OF TIME IS PRINCIPALLY TO COVER THE MAINTENANCE AND MOCKUP FACILITY AND THE FILTER BUILDING. BIDS FOR THESE TWO ITEMS ARE TO BE OPENED ON AUGUST 10.

CAI-816, NEW PRODUCTION REACTOR - DURING THE MONTH, THE FOLLOWING SCOPE ITEMS WERE APPROVED:

- ADD. 2 - PRIMARY COOLANT SYSTEM - ADDENDUM 2 - PRESSURE RELIEFS
- REV. 1 - PILE MOTION, SEISMOSCOPE, AND OPTICAL SYSTEMS
- REV. 2 - PILE GAS INSTRUMENTATION
- REV. 2 - PILE GAS SYSTEM
- HEAT DISSIPATION SYSTEM PROJECT REPRESENTATIVES MINUTES NOS. 54, 52, 50
- FLOW DIAGRAM - PROCESS WATER PURIFICATION AND SAMPLING SYSTEM
- REV. 2 - MODERATOR COOLING SYSTEM DESIGN CRITERIA

MONITOR SYSTEMS: A FUNCTIONAL FLOW MONITOR SPECIFICATION HAS BEEN ISSUED PERMITTING ALTERNATE APPROACHES TO NPR FLOW MONITORING. A REQUEST FOR A PROPOSAL HAS BEEN SENT TO 37 POSSIBLE VENDORS. THESE PROPOSALS ARE TO PROGRESS THROUGH A PROTOTYPE TESTING PROGRAM BEFORE AN ORDER IS PLACED.

A DECISION WAS REACHED ON THE TYPE OF FUEL RUPTURE MONITOR SYSTEM TO BE USED. THIS SYSTEM WILL PROVIDE MONITORING OF THE GROSS GAMMA ACTIVITY IN THE REACTOR EFFLUENT FROM EACH PROCESS TUBE BY MEANS OF HALOGEN-QUENCHED GEIGER MUELLER TUBE-TYPE DETECTORS. A GROUP OF GM TUBES ARE MONITORED PERIODICALLY BY PLACING THEM IN A CIRCULAR TURRET ARRAY WHICH CAN BE SCANNED BY A ROTATING ARM. PREVIOUS SYSTEMS CONSIDERED WERE MONITORING BY GM TUBES WITH CONTINUOUS READ-OUT FROM EACH TUBE; AND PERIODIC SCANNING OF INDIVIDUAL TUBE EFFLUENT LINES BY A ROTATING ARM WHICH CONTAINED A SCINTILLATION CRYSTAL. A SCOPE CHANGE IS BEING WRITTEN TO COVER THE TYPE OF SYSTEM SELECTED.

CGC-821, PROJECT PALM - PUREX - DETAILED DESIGN WAS STARTED JULY 15.

CAH-822, PRESSURIZED GAS-COOLED LOOP FACILITY - A REVISION TO THE PROJECT PROPOSAL WILL BE SUBMITTED DURING AUGUST TO EXTEND THE COMPLETION DATE. INSTALLATION OF THE IN-REACTOR PORTION WILL NOT START UNTIL CRITICAL AND POWER TESTS OF PRTR HAVE BEEN RUN. THESE TESTS ARE DEPENDENT UPON PHASE III COMPLETION WHICH IS EXPECTED IN MID-SEPTEMBER.

CGC-830, PLANT MODIFICATION FOR REPROCESSING NONPRODUCTION REACTOR FUELS - DESIGN IS COMPLETE FOR CASK TRANSFER AND FUEL STORAGE FACILITIES. DESIGN FOR MECHANICAL PROCESSING AND DISSOLUTION FACILITIES ARE 20% AND 9% COMPLETE, RESPECTIVELY.

CAF-847, NEW FUEL CLADDING FACILITY - A REVISED DIRECTIVE WAS ISSUED JULY 13 AUTHORIZING THE TOTAL PROJECT. BOTH DESIGN AND CONSTRUCTION SCHEDULES BASED ON THE TOTAL PROJECT HAVE BEEN SUBMITTED AND ARE BEING APPROVED. ON THE BASIS OF THESE SCHEDULES, DESIGN IS 52% COMPLETE AND CONSTRUCTION IS 13% COMPLETE.

A BID PACKAGE IS BEING PREPARED COVERING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL FOR THE INTERIOR OF THE BUILDING.

CAH-866, SHIELDED ANALYTICAL LABORATORY - DETAILED DESIGN WAS INITIATED DURING THE MONTH BY THE A-E AND IS 2% COMPLETE. A MEETING TO REVIEW PRELIMINARY DESIGN IS SCHEDULED FOR EARLY AUGUST.

CGC-895, EXPANSION TO 4.0 CAPACITY FACTOR - PUREX - CAPACITY STUDIES ARE UNDER WAY.

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PLANT CONSTRUCTION

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

MAJOR PROJECTS							
PROJECT	PROJECT PROPOSAL NUMBER	ACTUAL STARTING DATE	CONSTRUCTION		DESIGN	PRESENT	
			SCHED. COMPL. DATE	COMPLETION		%	WORKING
				% SCHED.	% ACTUAL	ACTUAL COMPL.	ESTIMATE (THOUSANDS)
PRTR	AEC-167	3-6-58	8-30-60	99	97	100	\$ 12,750 ^{1/}
RMC BUTTON LINE, 234-5	CG-734	2-18-58	7-16-60	100	100	100	1,845
PU FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	95.6	100	100	4,230
MET. DEV. FAC., 306							
BLDG. ADDITION	CA-744	3-20-59	9-1-60	96	99	100	2,685
REACTOR CONFINEMENT	CGI-791	3-31-59	12-31-61	45	47	98	6,380
ADD'L PU FAB. FAC.							
234-5 BLDG.	CGC-811	8-24-59	7-1-61	66	67	96	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	5.7 ^{2/}	5.5	61	145,000
NEW FUEL CLAD. FAC.	CAF-847	7-27-59	10-1-61	13	13	52	3,600

1/ REVISED PROJECT PROPOSAL SUBMITTED EARLY IN AUGUST INCREASES THE COST ESTIMATE TO \$13,140,000.

2/ BASED ON REVISED SCHEDULE WHICH HAS BEEN FORWARDED TO WASHINGTON.

PROJECT AEC-167, PLUTONIUM RECYCLE TEST REACTOR, CONTRACT AT(45-1)-1410 - SHAW & ESTES -
SIXTEEN OF THE 18 SHIM RODS HAVE BEEN INSTALLED. HELIUM TESTING ON THE REACTOR DRY GAS SYSTEM WAS STARTED.

PROJECT CG-734, RMC BUTTON LINE, 234-5 BUILDING - CONTRACT AT(45-1)-687, J. A. JONES - THIS PROJECT WAS CLOSED JULY 15, 1960, WITH EXCEPTIONS. PROCESS FEED WAS INTRODUCED INTO THE LINE JULY 21, 1960.

PROJECT CGC-789, ADDITIONAL FIRE PROTECTION, 234-5 BUILDING - CONTRACT AT(45-1)-687, J. A. JONES -
THE CPFF CONTRACTOR STARTED INSTALLATION OF FIRE PROTECTION EQUIPMENT IN THE CONTAMINATED HOODS ON JULY 7, 1960.

PROJECT CGI-791, REACTOR CONFINEMENT

CONTRACT AT(45-1)-687, J. A. JONES CONSTRUCTION COMPANY

PHASE I - FOG SPRAY SYSTEM - THE FOG SPRAY SYSTEMS ARE MANUALLY OPERABLE IN ALL AREAS AND THIS PHASE IS 98% COMPLETE. ONLY THE INSTALLATION OF THERMOCOUPLE DUCT SHIELDS REMAIN TO BE COMPLETED.

PHASE II-A - SITE CLEARANCE FOR THE FILTER BUILDING - THIS PHASE OF WORK WAS COMPLETED ON FEBRUARY 19, 1960.

PHASE II-B - CONSTRUCTION OF FILTER BUILDING, SAMPLE BUILDING AND AIR DUCTS - CONTRACT AT(45-1)-1483 - R. B. MILES CONSTRUCTION COMPANY - THIS PHASE IS 64% COMPLETE.

THE CONTRACTOR IS IN DEFAULT ON HIS CONTRACT. HE HAS SUBMITTED TENTATIVE SCHEDULES FOR THE REMAINING WORK, INDICATING THAT HE CANNOT EXPEDITE HIS WORK. SERIOUS CONSIDERATION IS BEING GIVEN TO TERMINATION FOR DEFAULT. THIS OFFICE IS CONFERRING WITH THE BONDING COMPANY AND THE LEGAL REPRESENTATIVES OF THE CONTRACTOR TO WORK OUT THE MOST EXPEDITIOUS METHOD OF COMPLETING THE WORK.

THE CONTRACTOR PLACED 726 CUBIC YARDS OF CONCRETE DURING THE MONTH OF JULY, WHICH INCLUDES SOME OF THE PLACEMENT LISTED BELOW:

FLOOR SLABS FOR THE AIR DUCT AT 100-DR
DUCT WALLS AT 100-B
DECK OF CONCRETE AIR DUCT AT 100-B
AIR DUCT WALLS - 100-DR

THE SETTING OF FILTER FRAME INSERTS WAS COMPLETED IN 100-C AND 100-H AREAS.

CRIBS HAVE BEEN COMPLETED IN 100-F AND 100-H AREAS.

CONCRETE PLACEMENT FOR THE HORIZONTAL AIR DUCTS FROM THE 105 EXHAUST STACK ARE COMPLETE IN 100-F, 100-C, AND 100-H AREAS.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION (CONT'D)PROJECT CGI-791, REACTOR CONFINEMENT (CONTINUED)

PHASE III - FILTER REPLACEMENT, AIR BALANCING AND FILTER TESTING - CONTRACT AT(45-1)-687 - J. A. JONES - FOUNDATIONS FOR THE AIR SUPPLY INLET ADDITIONS HAVE BEEN PLACED IN 105-F, 105-C, 105-KE, AND 105-KH.

ONE EXHAUST BYPASS DUCT HAS BEEN INSTALLED AT 100-F.

THE STACK BUILDING AT 105-F WAS MOVED INTO PLACE.

PROJECT CGC-811, ADDITIONAL FABRICATION FACILITIES, 234-5 BUILDING - CONTRACT AT(45-1)-687 - J. A. JONES - THE CPFF CONTRACTOR TERMINATED THE SWING SHIFT ON THIS WORK JULY 15, 1960.

THE SECOND GORTON LATHE WAS RECEIVED DURING THIS PERIOD.

CONTRACT AT(45-1)-1494, W. G. CLARK CONSTRUCTION COMPANY - PRESSURE TESTING OF HOOD E-4 AND THE DRY-AIR LINES HAVE BEEN COMPLETED.

NEW PRODUCTION REACTOR

DESIGN (PROJECT CAI-816) - BELOW ARE LISTED THE PERTINENT ITEMS CONCERNING TITLES I, II, AND III, DESIGN:

GENERAL ELECTRIC COMPANY - TITLE I

ESTIMATED COST -----	\$890,000
ACTUAL COST TO AUGUST 1 -----	750,000
SCHEDULED COMPLETE -----	100%
ACTUALLY COMPLETE -----	98%
ENGINEERS ASSIGNED -----	5

GENERAL ELECTRIC COMPANY AND BURNS & ROE, INC. - TITLE II

	<u>G.E.</u>	<u>BURNS & ROE</u>
ESTIMATED COST -----	\$4,000,000	\$4,000,000
ACTUAL COST TO AUGUST 1 -----	2,290,000	2,498,000
COMPLETION - SCHEDULED -----	63%	57%
COMPLETION - ACTUAL -----	65%	57%
PRESENT WORK FORCE -----	100	125
TOTAL MAN-DAYS TO DATE -----	32,189	41,660
TOTAL ESTIMATED MAN-DAYS REQUIRED -----	60,000	58,000
NUMBER OF DRAWINGS REQUIRED -----	2,100	726
CONSTRUCTION DRAWINGS - SCHEDULED -----	1,319	355
CONSTRUCTION DRAWINGS - ACTUAL -----	1,226	401
NUMBER OF SPECIFICATIONS REQUIRED -----	127	105
NUMBER OF SPECIFICATIONS SCHEDULED -----	90	83
NUMBER OF SPECIFICATIONS - ACTUAL -----	56	90
NUMBER OF REQUISITIONS - REQUIRED -----	400	176
NUMBER OF REQUISITIONS - SCHEDULED -----	162	89
NUMBER OF REQUISITIONS - ACTUAL -----	107	97
OVER-ALL DESIGN - SCHEDULED -----		60%
OVER-ALL DESIGN - ACTUAL -----		61%

GENERAL ELECTRIC COMPANY AND BURNS & ROE, INC. - TITLE III

ESTIMATED COST -----	\$1,570,000	\$1,060,000
COST TO DATE (AUGUST 1) -----	44,000	145,000
ENGINEERS ASSIGNED -----	5	8

DESIGN ITEMS:

PRIMARY SHIELD DESIGN - AN INVESTIGATION OF THE RUNNING WOLF IRON DEPOSITS IN MONTANA CONFIRMED THAT CURRENT MINING OPERATIONS ARE PRODUCING HYDROUS-IRON ORE OF THE REQUIRED QUALITY AND WATER CONTENT.

METAL HANDLING - A CONTRACT FOR THE DESIGN OF THE FUEL ELEMENT HANDLING SYSTEM HAS BEEN NEGOTIATED WITH THE AMF ATOMICS OF GREENWICH, CONNECTICUT.

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Document No. HAN-76200 *Dr. P*

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

NEW PRODUCTION REACTOR (CONT'D)

CONSTRUCTION (PROJECT CAI-816) - CONTRACT AT(45-1)-1455 - KAISER ENGINEERS

SC-16 - SOUND CONSTRUCTION & ENGINEERING COMPANY, 105-N TO 109-N BUILDING EXCAVATION AND SUBSTRUCTURES - THIS CONTRACTOR HAS PLACED, UP TO JULY 27, 4,649 CUBIC YARDS OF CONCRETE OUT OF A TOTAL ESTIMATED YARDAGE OF 34,000.

SC-35 - MOWAT BROTHERS CONSTRUCTION COMPANY, 151-153-N BUILDINGS - CONCRETE PLACEMENT FOR THE PERIMETER WALLS OF THE 151-N BUILDING WAS COMPLETED THIS PERIOD.

SC-10 - JENSEN-RASMUSSEN - RIVER WATER PUMP HOUSE - THE CONTRACTOR HAS PLACED A TOTAL OF 8,122 CUBIC YARDS OF CONCRETE IN THE SUBSTRUCTURE OUT OF A TOTAL OF 8,765.

PROCUREMENT (PROJECT CAI-816)

ENGINEERED EQUIPMENT

	<u>No.</u>	<u>VALUE</u>
1. ORDERS PLACED FOR ENGINEERED EQUIPMENT -----	100	\$26,990,000
2. BIDS IN REVIEW PRIOR TO AWARD -----	25	3,856,000
3. OUT FOR BID -----	27	3,466,000 (EST.)
4. REQUISITIONS IN PREPARATION TO GO OUT FOR BID -----	2	10,000 (EST.)
5. TOTAL FOR ENGINEERED EQUIPMENT IN PROCESS BY PURCHASE ORDER -----	154	34,322,000
6. ENGINEERED EQUIPMENT PROCURED BY SUBCONTRACTORS AND INCLUDED UNDER SUBCONTRACTS. (DATA SHOWN IS FOR INFORMATION ON TOTAL PROCUREMENT OF ENGINEERED EQUIPMENT.) -----	7	4,235,000
TOTAL FOR ENGINEERED EQUIPMENT, ORDERS PLACED OR READY TO BE PLACED -----	161	\$38,557,000
7. ENGINEERED EQUIPMENT REQUISITIONS NOT YET ISSUED BY A-E (EST.) -----	321	\$12,971,000
8. TOTAL FOR ENGINEERED EQUIPMENT -----	482	\$51,528,000
9. TOTAL PURCHASE ORDERS PLACED FOR MISCELLANEOUS CONSTRUCTION MATERIALS AND ENGINEERED EQUIPMENT, INCLUDING LINE 1, BUT EXCLUDING LINE 6 -----	1,231	\$27,865,000

SUBCONTRACTS (PROJECT CAI-816)

SIXTEEN F.P. SUBCONTRACTS HAVE BEEN COMPLETED FOR A CONTRACT AMOUNT OF \$995,000.

TWENTY-FIVE F.P. SUBCONTRACTS ARE UNDER WAY FOR A CONTRACT AMOUNT OF \$15,183,000.

FOUR F.P. SUBCONTRACTS ARE BEING REVIEWED WITH A TOTAL BID PRICE OF \$2,126,000.

FOUR F.P. SUBCONTRACTS ARE OUT FOR BID AT AN ESTIMATED COST OF \$1,258,000.

EIGHT F.P. SUBCONTRACTS ARE BEING PREPARED TO GO OUT FOR BID AT AN ESTIMATED COST OF \$2,483,000.

THIRTEEN F.P. SUBCONTRACTS ARE YET TO BE PREPARED AT AN ESTIMATED COST OF \$30,115,000.

PROJECT CGI-817, CROSSHEADER PRESSURE DIFFERENTIAL INDICATORS AND ALARM SYSTEM - THIS PROJECT WAS COMPLETED ON JULY 25, 1960.

PROJECT CGH-819, INCREASED LABORATORY WASTE FACILITIES, 300 AREA - SUBCONTRACT JAJ-67, SUBCONTRACTOR R. J. BRITTON - THE SUBCONTRACTOR STARTED CONSTRUCTION ON THIS PROJECT JULY 18, 1960.

PROJECT CGI-845, INCREASED PUMPING CAPACITY - 181-C - CONTRACT AT(45-1)-687 - J. A. JONES - THE TWO BYRON-JACKSON PUMPS ARRIVED JULY 12 AND INSTALLATION WAS COMPLETED ON JULY 25, 1960.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

PROJECT CGC-854, PUREX ANION EXCHANGE UNIT - THIS PROJECT WAS COMPLETED WITH A MINOR EXCEPTION AND BENEFICIAL USE WAS OBTAINED ON JULY 31, 1960.

PROJECT CGI-883, INCREASED PROCESS WATER FLOW, 100-K AREA - CONTRACT AT(45-1)-687, J. A. JONES - THE NEW 1500 H.P. MOTOR HAS BEEN RECEIVED AND IS LOCATED IN THE 165-KW BUILDING WHERE IT WILL BE INSTALLED.

PROJECT CAE-893, ADDITION TO BY TELEPHONE EXCHANGE BUILDING - CONTRACT AT(45-1)-1496, R. J. BRITTON - THE CONTRACTOR COMPLETED CONSTRUCTION ON THIS CONTRACT JULY 15, 1960.

PROJECT CGI-899, CASK HANDLING FACILITY, 105-KW - CONTRACT AT(45-1)-687 - THE CONTRACTOR STARTED STRUCTURAL MODIFICATIONS AT 105-KW ON JULY 15, 1960.

PROCUREMENT (FOR PERIOD COVERING JULY 5 THROUGH JULY 29, 1960)

THE ATOMIC ENERGY COMMISSION PLACED 215 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$798,827.00.

ELEVEN AWARDS MADE BY KAISER ENGINEERS WERE APPROVED BY THE ATOMIC ENERGY COMMISSION IN THE TOTAL AMOUNT OF \$2,475,541.35.

THE ATOMIC ENERGY COMMISSION APPROVED 31 AWARDS MADE BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$3,382,272.15.

AMONG THE LARGER AWARDS MADE BY THE GENERAL ELECTRIC COMPANY WAS ONE TO I.B.M. FOR THE RENTAL OF AN ELECTRONIC DATA PROCESSING MACHINE IN THE AMOUNT OF \$1,116,350.50.

CONTRACT ACTIONS

FOUR CONTRACTS WERE AWARDED BY THE ATOMIC ENERGY COMMISSION DURING THE MONTH OF JULY IN THE TOTAL AMOUNT OF \$115,119.30.

THREE CONTRACTS WERE AWARDED BY KAISER ENGINEERS IN THE TOTAL AMOUNT OF \$1,618,407.

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AIR MAIL

AUG 11 1960

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

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

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:RHL

Enclosed herewith is Part II ("Official Use Only" portion)
of subject report for the month of JUL 1960.
The "Secret" portion, Part I, is forwarded as a separate
report.

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

- 10 Copies - Addressee
- 1 Copy - Construction Engineering & Supply Division
 - 1 Copy - Process Engineering & Manufacturing Division
 - 1 Copy - Security Division
 - 1 Copy - Mr. Raymond Q. Phillips, Regional Audit
 - 1 Copy - Classified Files (Reading File)
 - 1 Copy - AEC Records Center
 - 1 Copy - Budget Division

AIR MAIL

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**U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE**

MONTHLY STATUS AND PROGRESS REPORT

JULY 1960

PART II

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MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

JULY 1960

PART II

C O N T E N T S

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

COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR JULY 1960:

	<u>JULY 1</u>	<u>JULY 31</u>
A. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	126	129
2. TOTAL APARTMENTS UNOCCUPIED	8	5
B. ALL HOUSES HAVE BEEN SOLD.		
C. THREE PRIVATELY OWNED DORMITORIES ARE NOW IN OPERATION.		

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		123	400	100	623
VACANT		97	0	0	97

*FHA STARTED CLOSING SALES ON THE COLUMBIA HEIGHTS (BAUER-DAY) HOUSES ON JULY 19; 100 SALES HAD BEEN COMPLETED BY JULY 31 AND SALES ARE NOW BEING CLOSED AT THE RATE OF 15 PER DAY. GOOD FAITH DEPOSITS HAVE BEEN ACCEPTED ON 276 HOUSES; TWO HOUSES HAVE NOT BEEN OFFERED; NO DEPOSITS RECEIVED ON TWO. HERE IS A LONG WAITING LIST FOR ANY THAT MAY BE AVAILABLE FOR SALE.

COMMERCIALS:

REPRESENTATIVES OF HOD AND HHFA MET WITH THE BOARD OF DIRECTORS OF FEDERAL LEASEHOLDERS. CHARLES WELLS REPORTED THE LOSS OF HIS SUIT IN THE COURT OF APPEALS. HE SAID HE HAD NO FUNDS TO PROSECUTE THE MATTER FURTHER AND ASKED IF LEASEHOLDERS WOULD ASSIST. THE LEASEHOLDERS SAID THE GROUP HAS NO MONEY AND THEY CONTEMPLATE DISSOLVING THE CORPORATION.

THE NINTH CIRCUIT COURT OF APPEALS RULED ON THE CHARLES WELLS CASE ON JULY 1 AND UPHELD THE LOWER COURT, WHICH HAD DISMISSED THE ACTION BECAUSE IT WAS AGAINST THE GOVERNMENT AND THE GOVERNMENT HAD NOT CONSENTED TO THE SUIT. WELLS WAS SUING OVER AEC DISALLOWANCE OF SIGNING OF A COMMERCIAL LEASE AS A CLAIMED "TENANT IMPROVEMENT."

SCHOOLS:

ROBERT CHISHOLM REPLACED NEAL MCCLURE AS SUPERINTENDENT OF THE RICHLAND SCHOOL SYSTEM, EFFECTIVE JULY 1, 1960.

HOSPITAL:

DR. HORACE TURNER, ADMINISTRATOR OF KADLEC METHODIST HOSPITAL, RETIRED AND RICHARD LUBBEN HAS BEEN APPOINTED AS HIS SUCCESSOR.

DISPOSAL:

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

	<u>TOTAL</u>	<u>SALES CLOSED</u>		<u>UNSOLD</u>	<u>GOOD FAITH</u>
	<u>INVENTORY</u>	<u>PAST MONTH</u>	<u>TOTAL</u>		<u>DEPOSITS</u>
<u>PRIORITY PROPERTIES:</u>					
SINGLE HOUSES	3,788	0	3,788	0	0
DUPLEX HOUSES	1,018	0	1,018	0	0
COMMERCIALS	127	0	65	62	11
CHURCHES	6	0	6	0	0
NON-PROFITS	7	0	4	3	1
RESIDENTIAL LQTS	97	0	97	0	0
DORMITORY SITES	0	0	0	0	0
WHERRY SITES	1	0	0	1	0

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COMMUNITY OPERATIONS (CONT'D)

DISPOSAL: (CONT'D)

	<u>TOTAL</u> <u>INVENTORY</u>	<u>SALES CLOSED</u>		<u>UNSOLD</u>	<u>GOOD FAITH</u> <u>DEPOSITS</u>
		<u>PAST MONTH</u>	<u>TOTAL</u>		
<u>BID PROPERTIES</u>					
APARTMENTS	17	0	0	17	2
RESIDENTIAL LOTS	108	1	79	29	4
RESIDENTIAL TRACTS	87	0	73	14	1
COMMERCIALS	24	0	6	18	1
INDUSTRIALS	41	0	23	18	4
FLOOD PLAINS	<u>39</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>0</u>
	<u>5,360</u>	<u>1</u>	<u>5,198</u>	<u>162</u>	<u>24</u>

A DEED WAS DELIVERED TO KERMIT BENGSTON, DIRECTOR, UNIVERSITY OF WASHINGTON CENTER FOR GRADUATE STUDY, RICHLAND, CONVEYING THE PROPERTY DONATED TO THE UNIVERSITY OF WASHINGTON.

A DEED TO TRACT 29 (40 ACRES ADJOINING THE AEC AIRPORT) WAS DELIVERED TO THE BENTON PORT DISTRICT. ALSO DELIVERED WAS A LICENSE AGREEMENT FOR USE OF THE AEC AIRPORT RUNWAYS.

REPRESENTATIVES OF HOO MET WITH REPRESENTATIVES FROM THE WASHINGTON OFFICE OF HHFA AND AGREED ON PROPOSED PROCEDURE FOR HANDLING COMMERCIAL SALES WHERE THE LESSEES CAN MEET THE HIGH BID.

HHFA WAS ADVISED BY A PROSPECTIVE PURCHASER THAT HIS BANK HAD WITHDRAWN ITS OFFER TO FINANCE HIS PURCHASE OF A VACANT COMMERCIAL LOT ON GOETHALS BECAUSE THE NEW CITY ZONING ORDINANCE MAY LIMIT ITS USE. ANOTHER PROSPECTIVE PURCHASER WANTS TO WITHDRAW HIS OFFER ON THREE PARCELS FOR THE SAME REASON. HHFA IS HOLDING UP ALL OFFERS PENDING ANALYSIS OF THE CITY ZONING ORDINANCE TO DETERMINE WHAT CHANGE IT WILL MAKE IN PERMISSIBLE USES OF VACANT PROPERTIES.

MUNICIPAL:

THE CITY COUNCIL PASSED ZONING ORDINANCE, WHICH INCLUDES A NUMBER OF CHANGES IN DEFINITIONS OF ZONES AS COMPARED WITH THE TEMPORARY ORDINANCE ADOPTED LAST YEAR. COPIES OF THE NEW ORDINANCE WILL NOT BE AVAILABLE UNTIL AFTER THE FIRST WEEK IN AUGUST.

THE CASCADE NATURAL GAS COMPANY COMPLETED ITS GAS LINE INTO RICHLAND AND TIED INTO THE BAUER-DAY GAS SYSTEM.

THE CITY MANAGER REPORTED 158 BUILDING PERMITS, FOR A TOTAL OF \$465,000 IN JUNE. THIS WAS ABOUT THE SAME FIGURE AS FOR MAY.

PERSONNEL (ON-SITE)

	<u>JULY 1</u>	<u>JULY 31</u>
ATOMIC ENERGY COMMISSION -----	289	289
GENERAL ELECTRIC COMPANY -----	7,945	7,991
TOTAL CONSTRUCTION PERSONNEL -----	<u>1,427</u>	<u>1,499</u>
TOTAL PROJECT PERSONNEL -----	<u>9,661</u>	<u>9,779</u>

END

**DATE
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