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

SUBJECT: MONTHLY STATUS AND PROGRESS REPORT

SYMBOL: B:RHL

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

APRIL 1960

PART I

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MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

APRIL 1960

PART I

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HIGHLIGHT STATEMENT - APRIL 1960

OPERATIONS

CANNED FUEL ELEMENT PRODUCTION TOTALLED 588 TONS, 98.5% OF FORECAST. THE TOTAL CONSISTED OF 96 TONS OF SOLID AND 425 TONS OF 1&E NORMAL-URANIUM, AND 62 TONS OF 1&E 94-METAL. YIELDS WERE 88.5% FOR SOLID AND 86.4% FOR 1&E NORMAL-URANIUM, AND 86.9% FOR 94-METAL PIECES.

IN-REACTOR PRODUCTION TOTALLED 107.1% OF FORECAST. THE OVER-ALL REACTOR TIME-OPERATED EFFICIENCY WAS 51.5%. A NEW MAXIMUM POWER LEVEL WAS ACHIEVED AT DR REACTOR. NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORDS WERE ACHIEVED AT D AND DR REACTORS. DURING THE MONTH, THERE WERE 11 FUEL ELEMENT FAILURES. OF THESE, 7 WERE 1&E NORMAL; 3 WERE 1&E 94-METAL; AND ONE WAS A 144-METAL TUBE-IN-TUBE FUEL ELEMENT.

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 106.9% OF FORECAST, WITH 91.2% OF THE TOTAL PRODUCED BY PUREX AND 8.8% BY REDOX. PUREX PLANT OPERATED CONTINUOUSLY THROUGHOUT THE MONTH AND ESTABLISHED A NEW RECORD BY PROCESSING 727.2 TONS OF URANIUM. REDOX PLANT OPERATED NORMALLY DURING THE FIRST PART OF THE MONTH, BUT DAMAGE TO THE NEW MULTIPURPOSE DISSOLVER ON APRIL 17 PREVENTED PLANT OPERATION DURING THE REMAINDER OF THE MONTH.

PRODUCTION OF NORMAL UO_3 TOTALLED 550.6 TONS, 100% OF FORECAST. PRODUCTION OF 94-METAL UO_3 TOTALLED 50 TONS, 102% OF FORECAST. ALL UO_3 SHIPPING SCHEDULES WERE MET.

PLANT ACQUISITION AND CONSTRUCTION

NEW PRODUCTION REACTOR - DESIGN IS 50% COMPLETE AND CONSTRUCTION IS 1.4% COMPLETE VS. 3.1% SCHEDULED. (SEE PART I, PAGES 8 - 11.)

REACTOR CONFINEMENT - DESIGN IS 90% COMPLETE AND CONSTRUCTION IS 48% COMPLETE VS. 53% SCHEDULED. (SEE PART I, PAGE 8.)

PRTR - DESIGN IS COMPLETE AND CONSTRUCTION IS 88% COMPLETE VS. 94% SCHEDULED. (SEE PART I, PAGES 8 & 9.)

PFPP - DESIGN IS COMPLETE AND CONSTRUCTION IS 88% COMPLETE VS. 86% SCHEDULED. (SEE PART I, PAGE 9.)

COMMUNITY

PROPERTY DISPOSAL - A TOTAL OF 5,169 OF 5,361 SALE PROPERTIES HAVE BEEN SOLD AND AN ADDITIONAL 33 GOOD FAITH DEPOSITS PLACED. (SEE PART II, PAGE 3.)

PLANT OPERATIONSMETAL PREPARATION

CANNING - NET PRODUCTION OF CANNED FUEL ELEMENTS TOTALED 583 TONS, 98.5% OF FORECAST ^{1/}. THIS TOTAL CONSISTED OF:

NORMAN URANIUM		
SOLID	96 TONS	88.5% YIELD
I & E	425 TONS	86.4% YIELD
94 METAL - I&E	62 TONS	86.9% YIELD

FIVE CANNING LINES OPERATED ON TWO SHIFTS FOR FIVE DAYS EACH WEEK. CANNING LINE TIME-OPERATED EFFICIENCY WAS 92.6%.

AT THE END OF THE REPORTING PERIOD, THE COMBINED INVENTORY OF BARE CORES AND FINISHED ACCEPTABLE NORMAL-URANIUM FUEL ELEMENTS FOR ROUTINE PRODUCT MODELS VARIED BY TYPE FROM 2.0 TO 8.5 MONTHS' SUPPLY. COMBINED INVENTORY FOR BARE AND ACCEPTABLY FINISHED 94-METAL PIECES VARIED BY TYPE FROM 2.4 TO 3.8 MONTHS' SUPPLY. THE INVENTORY OF CAPS AND CANS AT MONTH END WAS 3.5 MONTHS' SUPPLY.

AUTOCCLAVE FAILURES - ONE I&E NORMAL-URANIUM FUEL ELEMENT FAILED DURING AUTOCCLAVE TESTING IN APRIL. THE FAILED PIECE WAS BEING AUTOCCLAVED A SECOND TIME AFTER HAVING BEEN RE-ETCHED TO REMOVE SURFACE INCLUSIONS. THE FAILURE OCCURRED BY WATER ENTRY THROUGH A PIN HOLE IN THE CAP WELD.

SCRAP SHIPMENTS - ONE SCRAP SHIPMENT, 52 TONS OF NORMAL URANIUM, WAS MADE TO FERNALD IN APRIL.

REACTOR OPERATION

DURING APRIL, REACTOR PRODUCTION RATES IN TERMS OF INDEX ^{2/} WERE:

	<u>B</u>	<u>C</u>	<u>D</u>	<u>DR</u>	<u>F</u>	<u>H</u>	<u>KE</u>	<u>KW</u>	<u>TOTAL</u>
MAXIMUM POWER LEVEL DURING MONTH (INCLUDES ALL PRODUCTION)	86.5	98.8	87.7	91.8	88.5	93.0	177.5	185.0	908.8
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	80.9	92.1	85.5	87.7	77.7	87.9	168.9	178.0	858.7
TIME-OPERATED EFFICIENCY	71.9	70.5	91.5	89.5	84.3	77.1	80.9	87.3	81.6

IN-REACTOR PRODUCTION WAS 107.1% OF FORECAST ^{1/}. THE OVER-ALL TIME-OPERATED EFFICIENCY WAS 81.6% AS COMPARED WITH A FORECAST OF 81.8%. THE PRODUCTION EFFICIENCY ^{2/} WAS 82.1%. A NEW MAXIMUM POWER LEVEL WAS ESTABLISHED AT DR REACTOR. D AND DR REACTORS EACH ESTABLISHED A NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORD.

THERE WERE 11 FUEL ELEMENT FAILURES DURING APRIL. OF THESE, 7 WERE I&E NORMAL, 3 WERE I&E 94-METAL, AND ONE WAS A 144 METAL TUBE-IN-TUBE FUEL ELEMENT. THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,181, INVOLVING 1,201 PIECES (INCLUDING 120 I&E). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 71, INVOLVING 73 PIECES.

AT THE END OF THE MONTH, EQUILIBRIUM POWER LEVELS WERE LIMITED BY FUEL ELEMENT FAILURE CONSIDERATIONS.

1/ DOCUMENT HW-64681 (HAN-75294) JOHNSON/TRAVIS, DATED APRIL 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

2/ "SECRET" MEMORANDUM BLOCH/TRAVIS, DATED JUNE 8, 1959, SUBJECT "REVISION OF INDEX NUMBERS," SYMBOL PRP:IEFG.

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)

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

TABULATION OF RUPTURED URANIUM SLUGS							
TUBE NO.	DATE RUPTURED	TUBE POWER 1/	CONCENTRATION (MWD/T)	ASSIGNED LOSS		METAL	TYPE FAILURE
				MWD	DAYS		
(NORMAL)							
2588-C	4-1	1186	466	483	0.26	I&E	HOT SPOT.
1169-F	4-3	1133	546	2462	1.59	I&E	UNKNOWN.
1569-F	4-8	1131	392	2486	1.60	I&E	SIDE OTHER.
1275-C	4-9	1045	400	1207	0.66	I&E	HOT SPOT.
0668-B	4-26	1041	607	2683	1.66	I&E	UNKNOWN.
3683-F	4-26	1185	521	1286	0.83	I&E	SIDE OTHER.
1385-KW	4-28	1103	514	2354	0.66	I&E	UNKNOWN.
(94 METAL)							
2548-KW	4-6	1518	222	1670	0.47	I&E	HOT SPOT.
1380-C	4-19	1212	437	751	0.41	I&E	HOT SPOT.
0774-DR	4-30	-	774	1242	0.71	I&E	SIDE OTHER.
(144 METAL)							
4268-KER	4-23	725	1070	2455	0.73	TUBE-IN-TUBE	UNKNOWN.

EQUIPMENT EXPERIENCE - A TOTAL OF 63 PROCESS TUBES WERE INSTALLED; 48 AT B, 3 AT D, 4 AT DR, 2 AT F, 5 AT H, AND 1 AT KE REACTOR. THREE TUBE AND 3 VAN STONE LEAKS WERE CORRECTED. AT C REACTOR, THE REAR BALL VALVES WERE REMOVED FROM OPERATIONAL CHARGE-DISCHARGE FACILITY AND THERMOCOUPLE LEADS WERE REPLACED.

ON APRIL 12, A 100-KVA 13.8-KV/240/480-VOLT TRANSFORMER AT 190-DR BUILDING FAILED. THE 13.8 KV STATION SERVICE FEEDER RELAYED OUT ON TWO-GROUND FAULTS AND A THREE-PHASE FAULT. THE TRANSFORMER RUPTURED AND A FIRE FOLLOWED. MINOR DAMAGE WAS CAUSED BEFORE THE FIRE WAS EXTINGUISHED. TOTAL DAMAGE HAS BEEN ESTIMATED AT \$2,000. THE CAUSE IS AS YET UNKNOWN. DR REACTOR RETURNED TO OPERATION APRIL 14.

DINGOT URANIUM TESTING - FOUR MONITOR COLUMNS OF DINGOT URANIUM WERE DISCHARGED AT ABOUT 400 MWD/T FOR SPECIAL MEASUREMENTS. THE EXAMINATION OF THESE MONITOR COLUMNS REVEALED NO SIGNIFICANT DIFFERENCE BETWEEN THE DINGOT AND THE CONTROL INGOT MATERIAL WITH RESPECT TO EITHER WARP OR DIAMETER CHANGE.

KER TESTING - ON APRIL 23, A FAILURE OCCURRED IN A 2R-2-CLAD 1.44% ENRICHED TUBE-IN-TUBE ELEMENT BEING IRRADIATED IN KER-4 AT A COOLANT OUTLET TEMPERATURE OF 280° C. EXPOSURE AT THE TIME OF FAILURE WAS 1070 MWD/T. DISCHARGE OF THE ELEMENTS WAS ACCOMPLISHED WITHOUT DIFFICULTY, AND OBSERVATIONS REVEALED NO FAILURE ON THE OUTER SURFACES OF ANY OF THE ELEMENTS.

PILE PHYSICS ASSISTANCE - STARTUP EFFICIENCY AT THE K REACTORS CONTINUED TO SHOW A 50%-70% IMPROVEMENT THROUGH USE OF SPLINES. BOTH C AND H REACTORS REALIZED A 50%-60% DECREASE IN LOSSES PER STARTUP, C REACTOR WITH INITIAL SPLINE APPLICATION, AND H REACTOR WITH MORE AGGRESSIVE PROCEDURES UTILIZING THE PCCF SYSTEM.

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 106.9% OF FORECAST ^{2/}, WITH 91.2% OF THE TOTAL PRODUCED BY PUREX AND 8.8% BY REDOX.

^{1/} AT TIME OF RUPTURE.

^{2/} DOCUMENT HW-64681 (HAN-75294) JOHNSON/TRAVIS, DATED APRIL 25, 1960, SUBJECT "HAPO PRODUCTION FORECAST."

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

FOLLOWING IS A SUMMARY OF APRIL REACTOR OUTAGES:

<u>DATE DOWN</u>	<u>DATE UP</u>	<u>OUTAGE HOURS</u>	<u>REMARKS</u>
<u>B REACTOR:</u>			
4-4	4-9	125.3	CHARGE-DISCHARGE, TUBE REPLACEMENT, AND BALL 3X WORK.
4-9	4-9	3.5	FAULTY THERMOCOUPLE ON TUBE 2180.
4-26	4-29	73.5	I&E NORMAL-URANIUM RUPTURE IN TUBE 0668. CHARGE-DISCHARGE AND TUBE REPLACEMENT.
<u>C REACTOR:</u>			
4-1	4-1	0.6	I&E NORMAL-URANIUM RUPTURE IN TUBE 2588.
4-9	4-10	32.6	I&E NORMAL-URANIUM RUPTURE IN TUBE 1275. CHARGE-DISCHARGE.
4-11	4-11	0.3	PANELLIT TRIP.
4-11	4-13	32.1	PANELLIT TRIP. INSUFFICIENT REACTIVITY AND MISCELLANEOUS MAINTENANCE.
4-19	4-25	147.7	I&E 94-METAL RUPTURE IN TUBE 1320. CHARGE-DISCHARGE AND SCHEDULED MAINTENANCE.
<u>D REACTOR:</u>			
4-10	4-13	61.1	WATER LEAK, CHARGE-DISCHARGE, AND TUBE REPLACEMENT.
<u>DR REACTOR:</u>			
4-1	4-2	37.1	WATER LEAK AND TUBE REPLACEMENT.
4-12	4-14	37.8	TRANSFORMER FAILURE, CHARGE-DISCHARGE, AND MISCELLANEOUS MAINTENANCE.
4-30	STILL DOWN		I&E 94-METAL RUPTURE IN TUBE 0774.
<u>F REACTOR:</u>			
3-28	4-1	83.6	CONCLUDED RUPTURE REMOVAL. CHARGE-DISCHARGE AND TUBE REPLACEMENT.
4-3	4-4	33.8	I&E NORMAL-URANIUM RUPTURE IN TUBE 1169.
4-8	4-10	38.0	I&E NORMAL-URANIUM RUPTURE IN TUBE 1569. CHARGE-DISCHARGE.
4-26	4-28	40.8	I&E NORMAL-URANIUM RUPTURE IN TUBE 3683. CHARGE-DISCHARGE.
<u>H REACTOR:</u>			
3-31	4-4	83.8	CONCLUDED RUPTURE REMOVAL. CHARGE-DISCHARGE AND TUBE REPLACEMENT.
4-4	4-4	0.8	PANELLIT TRIP.
4-4	4-4	0.2	PANELLIT TRIP DUE TO INCOMPLETE POISON FLUSHING.
4-18	4-20	54.6	WATER LEAK, CHARGE-DISCHARGE, AND TUBE REPLACEMENT.
4-23	4-24	34.9	LEAK TESTING AND TUBE REPLACEMENT.
<u>KE REACTOR:</u>			
4-1	4-2	37.1	TRIPPED DUE TO LOSS OF NO. 6 HIGH-LIFT PUMP AND CHARGE-DISCHARGE.
4-8	4-9	31.5	UNEXPLAINED TRIP OF HCR'S AND CHARGE-DISCHARGE.
4-23	4-25	43.5	RUPTURE IN KER LOOP NO. 4 AND CHARGE-DISCHARGE.
4-26	4-26	0.6	FAULTY THERMOCOUPLE ON KER LOOP NO. 4 HEAT EXCHANGER.
4-27	4-29	29.8	FAULTY GROUNDING CIRCUIT IN KER LOOP NO. 3 HEAT EXCHANGER THERMOCOUPLE AND INSUFFICIENT REACTIVITY.
<u>KW REACTOR:</u>			
4-6	4-7	34.4	I&E 94-METAL RUPTURE IN TUBE 2548. CHARGE-DISCHARGE.
4-28	4-30	56.9	I&E NORMAL-URANIUM RUPTURE IN TUBE 1385. CHARGE-DISCHARGE.

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PLANT OPERATIONS (CONT'D)

SEPARATIONS (CONT'D)

PUREX - THE PLANT OPERATED CONTINUOUSLY THROUGHOUT THE MONTH AND ESTABLISHED A NEW RECORD BY PROCESSING 727.2 TONS OF URANIUM. BOTH PRODUCTS WERE WITHIN SPECIFICATIONS, UTILIZING ION EXCHANGE AND SILICA GEL FACILITIES.

DURING THE FOURTH WEEK OF THE MONTH, OPERATION OF THE 2E COLUMN BECAME SOMEWHAT ERRATIC DUE TO THE PRESENCE OF DECOMPOSITION BY-PRODUCTS FROM THE DEMINERALIZED WATER CATION BEDS IN THE PROCESS WATER SYSTEM. BEGINNING ON APRIL 26, SANITARY WATER WAS USED FOR PLANT OPERATION WHILE THE CATION BEDS WERE REPLACED. EXCELLENT OPERATING STABILITY FOLLOWED.

IMPROVED FIRST-CYCLE DECONTAMINATION WAS EXPERIENCED WHEN FEED SOLUTIONS WERE PROCESSED ON A TEST BASIS WITHOUT USING PUREX RECOVERED ACID. AS A RESULT OF THIS TEST, THE RECOVERED ACID SYSTEM IS CURRENTLY BEING INVESTIGATED TO DETERMINE WHAT COMPONENT CONTRIBUTES TO THE POOR HA COLUMN DECONTAMINATION. SOME HIGH GAMMA ACTIVITY SOLIDS FOUND IN PUREX RECOVERED ACID HAVE EXHIBITED A STRONG AFFINITY FOR THE ORGANIC PHASE. SUITABLE FILTERS ARE BEING INSTALLED TO REMOVE ALL SOLIDS FROM THE RECOVERED ACID.

WASTE LOSSES FOR THE MONTH WERE NORMAL, TOTALING 0.15% OF THE PLUTONIUM THROUGHPUT AND 0.06% OF THE URANIUM THROUGHPUT.

ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE AVERAGED 0.48 CURIE PER DAY, TOTALING 14.46 CURIES FOR THE MONTH. THE DAILY MAXIMUM WAS 0.77 CURIE.

NEPTUNIUM RETENTION WAS NORMAL DURING THE MONTH WITH LOSSES FROM THE HA COLUMN AVERAGING APPROXIMATELY 15% OF THE NEPTUNIUM IN THE VIRGIN FEED. THE NEPTUNIUM INVENTORY IN THE PROCESS AT THE END OF THE MONTH WAS APPROXIMATELY 1700 GRAMS.

REDOX - THE REDOX PLANT PROCESSED 80 TONS OF 94 METAL DURING THE FIRST HALF OF THE MONTH. BOTH PRODUCTS WERE WITHIN SPECIFICATIONS AFTER SOME PLUTONIUM WAS REWORKED. DAMAGE TO THE MULTIPURPOSE DISSOLVER ON APRIL 17 PREVENTED PLANT OPERATION DURING THE REMAINDER OF THE MONTH.

WASTE LOSSES WERE MAINTAINED AT A LOW LEVEL, BEING 0.11% OF THE URANIUM THROUGHPUT AND 0.41% OF THE PLUTONIUM THROUGHPUT. TOTAL IODINE EMISSION FROM THE STACK WAS 5.84 CURIES, AVERAGING 0.195 CURIE PER DAY.

DURING THE FIRST HALF OF THE MONTH, THE DISSOLVING RATE IN THE NEW MULTIPURPOSE DISSOLVER AT TIMES EXCEEDED THE DESIGN RATE OF 7 TONS PER DAY BY A FACTOR OF 2. ON APRIL 17, BEGINNING AT 8:45 P.M., A SERIES OF INCIDENTS IN THE OPERATION OF THE NEW DISSOLVER CAUSED CESSATION OF DISSOLVING OPERATIONS AND SUBSEQUENT SHUTDOWN OF THE REDOX PLANT. A SEPARATE REPORT IS BEING SUBMITTED COVERING THE INVESTIGATION OF THESE INCIDENTS AND IMMEDIATE OPERATING PLANS.

UO₃ - PRODUCTION OF UO₃ FOR APRIL WAS 550.6 TONS (100% OF FORECAST) OF NORMAL URANIUM AND 50.0 TONS (102% OF FORECAST) OF 94 METAL. ALL SHIPPING SCHEDULES WERE MET.

ON APRIL 7, A BLADE BOLT FAILURE IN H CALCINER CAUSED MINOR DAMAGE TO THERMOWELLS, FEED POINTS, AGITATOR BLADES, AND SHEAR PINS. THE CALCINER HAS BEEN REPAIRED AND RETURNED TO SERVICE.

RESEARCH AND DEVELOPMENT

NEPTUNIUM PROCESSING - NO NEPTUNIUM RECOVERY RUNS WERE MADE AT EITHER PUREX OR REDOX.

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PLANT OPERATIONS (CONT'D)

RESEARCH AND DEVELOPMENT (CONT'D)

ANL PYROPHORICITY STUDIES - THE ELECTRON BEAM MELTING FURNACE IS NOT YET AVAILABLE FOR THESE STUDIES. STAND-IN MATERIALS WERE MACHINED TO EVALUATE THE ADEQUACY OF THE TOOLING SET UP. A MORE RIGID ARRANGEMENT WILL BE REQUIRED TO ACHIEVE THE NECESSARY PRECISION. THE ROLLING MILL GLOVE BOX LEAKS HAVE BEEN SEALED, AND A PRESSURE OF 20 MICRONS CAN BE MAINTAINED.

PLANT ACQUISITION AND CONSTRUCTION

PROJECT AND DESIGN STUDIES

AEC-167, PRTR - THE REVISED CONSTRUCTION STATUS CHART WAS FORWARDED TO THE WASHINGTON OFFICE FOR APPROVAL.

A BID PACKAGE ON THE MAINTENANCE AND MOCK-UP FACILITY IS BEING REVIEWED.

CG-789, ADDITIONAL FIRE PROTECTION - 234-5 - A 5 $\frac{1}{2}$ -MONTH EXTENSION FOR THE PROJECT WAS APPROVED. A DELAY IN RECEIPT OF THE BID PACKAGE NECESSITATED THE EXTENSION.

CGI-791, REACTOR CONFINEMENT - DESIGN IS 92% COMPLETE WITH ONLY PHASE III (VENTILATION MODIFICATIONS AND TIE-INS) TO BE COMPLETED.

SCOPE: PRINCIPAL ITEMS OF PHASE III PROJECT SCOPE DESIGN HAVE BEEN APPROVED. THESE INCLUDE BUILDING SEALING FOR VENTILATION CONTROL; BACKUP DIESEL DRIVES FOR K AREA FANS; MOTOR, FAN, AND TURBINE MODIFICATIONS AND REPLACEMENT; MODIFICATION OF VENTILATION INTAKES TO REDUCE DUST PICKUP AND TO ASSURE NONFREEZING OF AIR HEATING COILS; AND INSTALLATION OF DUPLICATE SERIES OF HIGH EFFICIENCY FILTERS. A STUDY HAS BEEN ISSUED FOR COMMENT COVERING THE PROCEDURES AND AUXILIARY EQUIPMENT NECESSARY FOR REMOVING SPENT FILTERS FROM THE FILTER BUILDINGS AND REPLACING WITH NEW FILTERS.

DEVELOPMENT: BOTH PORTIONS OF THE A. D. LITTLE FINAL REPORT ON REMOVAL OF HALOGENS FROM THE EXHAUST AIR HAVE BEEN RECEIVED AND ARE BEING REVIEWED PRIOR TO DUPLICATING. IT APPEARS THAT ACTIVATED CARBON FILTERS WILL PERFORM SATISFACTORILY AND RELATIVELY ECONOMICALLY.

EQUIPMENT: SOME VENDOR DIFFICULTY HAS BEEN EXPERIENCED IN FABRICATING ALUMINUM FILTER FRAMES. ALTERNATE SOLUTIONS BEING INVESTIGATED ARE (1) SUBSTITUTION OF CARBON STEEL FOR ALUMINUM AND (2) GLUING THE FRAMES WITH METAL GLUE. ADHESIVES TESTED TO DATE HAVE SHOWN WEAK TENSILE PROPERTIES.

CAI-816, NEW PRODUCTION REACTOR - DETAILED DESIGN IS 50% COMPLETE AND ON SCHEDULE.

RESEARCH AND DEVELOPMENT: INSTRUMENTATION - TWO DIFFERENT METHODS FOR DETECTION AND MEASUREMENT OF NEUTRON FLUX ARE UNDER DEVELOPMENT. ONE SYSTEM EMPLOYS A GAMMA SENSITIVE CHAMBER AND THE OTHER A NEUTRON SENSITIVE DETECTOR. THE PROBLEM OF GREATEST CONCERN IS DEVELOPMENT OF MATERIALS THAT WILL WITHSTAND THE HIGH NEUTRON AND HEAT FLUXES IN THE REACTOR CORE.

FIFTY CHANNELS OF THE 100-CHANNEL GROSS GAMMA FUEL RUPTURE MONITOR PROTOTYPE INSTALLED ON THE 105-C REACTOR HAVE BEEN ACTIVATED AND ARE OPERATING SATISFACTORILY.

STUDY WORK CONTINUES ON THERMOCOUPLES. BECAUSE OF EXPECTED DETERIORATION FROM HIGH TEMPERATURES, IT IS BELIEVED THAT A REPLACEABLE TEMPERATURE SENSOR WILL HAVE TO BE DESIGNED. A STUDY OF SHEATH MATERIAL RESISTANCE TO PROLONGED EXPOSURE IS UNDER WAY.

FLOW MONITOR PROTOTYPES ARE BEING TESTED. TO DATE, THREE PROTOTYPES (TWO ELECTRO MECHANICAL AND ONE SOLID-STATE ELECTRICAL) HAVE BEEN RECEIVED AND ONE TESTED. IT IS EXPECTED THAT SEVERAL MORE SOLID-STATE ELECTRICAL TYPES WILL BE SUBMITTED FOR TESTING.

A HALF-SIZE PROTOTYPE MECHANISM FOR CATCHING DISCHARGED FUEL ELEMENTS HAS BEEN SHIPPED TO HANFORD FOR TESTING. THIS DEVICE IS A CHAIN-LINK BLANKET SUPPORTED AT THE EDGE BY HEAVY SPRINGS.

WORK IS CONTINUING ON METHODS FOR DECELERATING THE HORIZONTAL EMERGENCY CONTROL RODS WITHOUT PLACING ABNORMAL STRESSES ON THE MECHANISM AND WITHOUT INDUCING JERKINESS IN THE ROD ACTION. INCREASING SUCCESS IS BEING EXPERIENCED IN ACHIEVING THESE OBJECTIVES.

TWO STATIC INVERTERS HAVE BEEN ORDERED FOR TESTING AS BACKUP POWER SUPPLY FOR INSTRUMENTATION ELECTRICAL POWER.

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PROJECT AND DESIGN STUDIES (CONT'D)CAI-816, NEW PRODUCTION REACTOR (CONT'D)

DESIGN CRITERIA: CRITERIA FOR THE NPR FUEL ELEMENT HAVE BEEN REVIEWED AND RETURNED TO THE GENERAL ELECTRIC COMPANY FOR CORRECTIONS.

A GRAPHITE DESIGN CRITERIA REVISION HAS BEEN APPROVED. THIS REVISION PROVIDES FOR TWO VERTICAL CLEAVAGE PLANES THROUGH THE CENTER OF THE REACTOR TO LOCALIZE HORIZONTAL SHRINKAGE.

CGH-819, INCREASED LABORATORY WASTE FACILITIES - 300 AREA - DETAILED DESIGN HAS BEEN COMPLETED.

CAH-842, CRITICAL REACTIVITY MEASURING FACILITY (FOR PRTR) - THE TOTAL PROJECT HAS BEEN AUTHORIZED; DESIGN CRITERIA HAVE BEEN APPROVED; AND THE PROJECT HAS BEEN DECLASSIFIED.

CAH-867, FUEL ELEMENT RUPTURE TEST FACILITY - DESIGN CRITERIA ARE BEING PREPARED. A PROJECT PROPOSAL COVERING CONSTRUCTION IS TO BE SUBMITTED EARLY IN MAY. ESTIMATED TOTAL COST IS \$1,500,000.

CGH-877, PYROCHEMICAL TEST FACILITY - 321-A BUILDING - DETAILED DESIGN HAS BEEN COMPLETED.

CGC-895, EXPANSION 4.0 CAPACITY FACTOR - PUREX - A PROPOSAL HAS BEEN RECEIVED REQUESTING AUTHORIZATION FOR DESIGN ON WORK TO EXPAND THE CAPACITY OF PUREX TO FOUR TIMES THE ORIGINAL DESIGN CAPACITY.

CGC-897, FISSION PRODUCT CONCENTRATES STORAGE SYSTEM - 200-EAST AREA - AN INITIAL PROPOSAL HAS BEEN RECEIVED REQUESTING AUTHORIZATION TO PERFORM PRELIMINARY DESIGN.

PLANT CONSTRUCTION

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

MAJOR PROJECTS							
PROJECT	PROJECT PROPOSAL NUMBER	CONSTRUCTION				DESIGN	PRESENT
		ACTUAL STARTING DATE	SCHD. COMPL. DATE	COMPLETION		%	WORKING
				% SCHED.	% ACTUAL	ACTUAL COMPL.	ESTIMATE (THOUSANDS)
PRTR	AEC-167	3-6-58	3-30-60	94	88	100	\$ 12,750
RMC BUTTON LINE, 234-5	CG-734	2-18-58	7-15-60	97	92	100	1,845
PU FAB. PILOT PLANT	CA-747	3-6-58	11-1-60	86	88	100	4,230
MET. DEV. FAC., 306							
BLDG. ADDITION	CA-744	3-20-59	9-1-60	72	72	100	2,685
REACTOR CONFINEMENT	CGI-791	3-31-59	1-1-61	53	48	90	6,380
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	82*	84	100	1,000
ADD'L PU FAB. FAC.							
234-5 BLDG.	CGC-811	8-24-59	7-1-61	39	32	96	3,500
NEW PROD. REACTOR	CAI-816	5-1-59	10-1-62	3.1**	1.4	50	145,000
NEW FUEL CLAD. FAC.	CAF-847	7-27-59	12-31-60	15	15	35	3,600

* BASED ON REVISED SCHEDULE.

** SCHEDULE IS IN PROCESS OF REVISION BASED ON PURCHASE ORDER AND SUBCONTRACT AWARDS MADE IN LAST SIX MONTHS. THE 3.1% SCHEDULED PROGRESS IS BASED ON SCHEDULE OF SEPTEMBER 1959. REVISED SCHEDULE WILL BE ISSUED IN MAY AND WILL SHOW ABOUT 3% SCHEDULED AND 3% ACTUAL AS OF JUNE 1, 1960.

CONTRACT AT(45-1)-1410, PROJECT AEC-167, PHASE III, PLUTONIUM RECYCLE TEST REACTOR - SHAW & ESTES, INC. - PLACING OF SHOT IN THE BOTTOM PRIMARY SHIELD AND LEAK TESTING OF TOP PRIMARY SHIELD WAS COMPLETED THE WEEK ENDING APRIL 15, 1960.

SETTING OF THE FOUR WATER SOFTENER TANKS, FINAL LEAK TESTING OF THE BOTTOM PRIMARY SHIELD, AND THE INITIAL SHOT FILLING (CORE SECTION PRIOR TO SETTING REACTOR CORE) OF THE TOP PRIMARY SHIELD WAS COMPLETED DURING THE WEEK ENDING APRIL 22.

THE VENTILATION UNIT PIPING SYSTEM WAS COMPLETED THE WEEK ENDING APRIL 29.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

CONTRACT AT(45-1)-1446, PROJECT CG-731, CRITICAL MASS LABORATORY - HOWARD S. WRIGHT CONSTRUCTION COMPANY - CONTROL PANELS FROM MINNEAPOLIS-HONEYWELL, WHICH BECAUSE OF TARDY DELIVERY HAD BEEN DELAYING THE CONTRACTOR'S PROGRESS, WERE RECEIVED ON APRIL 18, 1960.

PROJECT CGI-791, REACTOR CONFINEMENT

CONTRACT AT(45-1)-1483, PHASE II-B, REACTOR EXHAUST AIR DECONTAMINATION FACILITIES, ALL 100 AREAS - R. B. MILES CONSTRUCTION COMPANY

- 100-B - CONCRETE WAS PLACED IN THE FIRST WALL LIFT OF THE FILTER BUILDING ON APRIL 7, 1960, AND IN THE SECOND WALL LIFT ON APRIL 26, 1960.
- 100-KW - CONCRETE FOR THE FOUNDATION SLAB OF THE FILTER BUILDING WAS PLACED ON APRIL 8, 1960.
- 100-KE - MACHINE EXCAVATION FOR THE FILTER BUILDING WAS COMPLETED ON APRIL 7, 1960. FORMING FOR THE FOUNDATION PLACEMENT ON THE FILTER BUILDING WAS STARTED DURING THE WEEK ENDING APRIL 15, 1960, AND CONCRETE WAS PLACED ON APRIL 27, 1960.
- 100-C - THE SECOND WALL LIFT ON THE FILTER BUILDING WAS PLACED ON APRIL 12, 1960.
- 100-F - EXCAVATION FOR THE AIR EXHAUST TUNNELS WAS COMPLETED DURING THE WEEK ENDING APRIL 29, 1960. ALUMINUM TURNING VANES ARE IN PLACE AND ARE READY TO BE GROUTED.
- 100-DR - CONCRETE WAS PLACED IN THE FIRST WALL LIFT OF THE FILTER BUILDING ON APRIL 22, 1960.

CONTRACT AT(45-1)-687, PHASE III - J. A. JONES CONSTRUCTION COMPANY - WORK UNDER THIS PHASE WAS STARTED ON APRIL 25, 1960.

NEW PRODUCTION REACTOR

CONTRACT AT(45-1)-1455, PROJECT CAI-816, NEW PRODUCTION REACTOR - KAISER ENGINEERS - BURNS & ROE AND GENERAL ELECTRIC COMPANY PERSONNEL MOVED INTO THE T-C ADMINISTRATION BUILDING ON APRIL 8, 1960, SUBCONTRACT SC-11, GEORGE A. GRANT, INC.

EXCAVATION FORCES OF THE SOUND CONSTRUCTION COMPANY (SC-16) STARTED A SECOND SHIFT ON APRIL 6. THE FIRST PERMANENT CONCRETE, SERVICE AREA 105-N, WAS PLACED ON APRIL 20.

KAISER ENGINEERS STARTED THE MACHINING OF "K" GRAPHITE ON APRIL 7, 1960.

STANDBY POWERHOUSE SUBSTRUCTURE BUILDING 184-N - LAYOUT WORK WAS STARTED APRIL 27, BY GEORGE A. GRANT, INC., SC-29.

ZIRCALOY PROCESS TUBES FOR NEW PRODUCTION REACTOR - IMMERSCOPE AND DYE PENETRANT TESTING OF THE NINE TUBES RECEIVED ON THE HARVEY ALUMINUM PILOT ORDER WERE STARTED APRIL 29, 1960, BY KAISER ENGINEERS.

GRAPHITE - THE FIRST SHIPMENT OF REFLECTOR GRAPHITE, 1206 BARS, WAS SHIPPED APRIL 14 FROM THE NATIONAL CARBON COMPANY.

PROJECT CAE-862, ACCESS RAILROAD, 100-N AREA - FRANCO RAILROAD CONTRACTORS, SC-27, STARTED LAYOUT APRIL 21, 1960.

DESIGN - OVER-ALL DESIGN IS SCHEDULED AND ACTUAL 50% COMPLETE. GENERAL ELECTRIC COMPANY IS SCHEDULED AND ACTUAL 51% COMPLETE. BURNS & ROE IS SCHEDULED AND ACTUAL 49% COMPLETE. A BREAKDOWN ON THE SCHEDULED AND ACTUAL NUMBER OF DRAWINGS AND SPECIFICATIONS AS OF THE END OF APRIL IS LISTED BELOW:

	<u>SCHEDULED</u>	<u>ACTUAL</u>
BURNS & ROE -		
PRELIMINARY DRAWINGS	180	175
CONSTRUCTION DRAWINGS	245	364
CONSTRUCTION SPECIFICATIONS	60	60
GENERAL ELECTRIC COMPANY -		
PRELIMINARY DRAWINGS	1365	1084
CONSTRUCTION DRAWINGS	995	995
CONSTRUCTION SPECIFICATIONS	58	45

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

NEW PRODUCTION REACTOR (CONT'D)

PROCUREMENT ACTIONS - THREE AWARDS MADE BY KAISER ENGINEERS WERE APPROVED BY THE AEC IN THE AMOUNT OF \$474,736.

AMONG THE LARGER CONSTRUCTION PROCUREMENT ACTIONS WAS THE PURCHASE BY GENERAL ELECTRIC COMPANY OF ZIRCALOY-2 GRAPHITE COOLING TUBES IN THE AMOUNT OF \$165,000.

A RECOMMENDATION FOR THE PURCHASE OF 800 ZIRCALOY-2 PROCESS TUBES, AT A COST OF \$7,196,800, FOR THE 105-N BUILDING WAS SUBMITTED BY THE GENERAL ELECTRIC COMPANY AND FORWARDED TO WASHINGTON FOR APPROVAL.

SEVEN HUNDRED AND SEVENTY-THREE PURCHASE ORDERS HAVE BEEN PLACED THROUGH APRIL 30, 1960, WITH A TOTAL VALUE OF \$14,530,000.

ONE HUNDRED AND TWENTY-THREE PURCHASE ORDERS WERE PLACED BETWEEN APRIL 1, 1960 AND MAY 1, 1960, FOR A TOTAL VALUE OF \$118,000.

THIRTY-NINE REQUISITIONS ARE OUT FOR BID WITH AN ESTIMATED VALUE OF \$9,445,000.

CONTRACTS - THREE CONTRACTS WERE AWARDED BY THE ATOMIC ENERGY COMMISSION DURING APRIL WITH A COMBINED VALUE OF \$188,940.

THE FOLLOWING SUBCONTRACTS WERE AWARDED BY KAISER ENGINEERS DURING THE MONTH OF APRIL 1960:

1. SC-26, 163-N AND 183-N BUILDINGS (WATER TREATMENT FACILITIES), \$635,562, SOUND CONSTRUCTION & ENGINEERING COMPANY.
2. SC-27, PHASE I RAILROAD CONSTRUCTION, \$84,888*, FRANCO RAILROAD CONTRACTORS, INC.
3. SC-29, 181-N STANDBY POWERHOUSE SUBSTRUCTURES, \$72,800, GEORGE A GRANT, INC.

* THE AWARD WAS MADE ON MARCH 31, 1960, BUT WAS NOT REPORTED ON MARCH REPORT.

CONTRACT AT(45-1)-1495, PROJECT CAC-843, WASTE CRIB NO. 216-U-12, TRIANGLE CONSTRUCTION COMPANY - WORK ON THIS CONTRACT WAS COMPLETED ON APRIL 4, 1960.

CONTRACT AT(45-1)-1467, PROJECT CAH-848, TEST WELLS - BACH DRILLING COMPANY - THIS CONTRACT WAS COMPLETED ON APRIL 8, 1960.

PROCUREMENT

THE ATOMIC ENERGY COMMISSION APPROVED 18 AWARDS MADE BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$1,643,526.91.

THREE AWARDS MADE BY THE J. A. JONES CONSTRUCTION COMPANY WERE APPROVED BY THE ATOMIC ENERGY COMMISSION IN THE AMOUNT OF \$70,479.95.

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AIR MAIL

MAY 12 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 _____. The "Secret" portion, Part I, is forwarded as a separate report.

Enclosure:
Monthly Status and Progress Report, Part II

DISTRIBUTION:

- 10 Copies - Addressee
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 - 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

[REDACTED]

U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

APRIL 1960

PART II

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[REDACTED]

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MONTHLY STATUS AND PROGRESS REPORT
HANFORD OPERATIONS OFFICE

APRIL 1960

PART II

C O N T E N T S

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COMMUNITY OPERATIONS

GOVERNMENT HOUSING:

THE FOLLOWING ARE HOUSING STATISTICS FOR APRIL 1960:

	APRIL 1	APRIL 30
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	3	3
1. TOTAL HOUSES OCCUPIED	1	2
2. TOTAL HOUSES UNOCCUPIED	2	1
(A TOTAL OF 3,787 SINGLE HOUSES AND 1,017 DUPLEXES SOLD -- 5,824 UNITS.)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	133	134
2. TOTAL APARTMENTS UNOCCUPIED	1	0
C. THERE ARE THREE DORMITORIES NOW IN OPERATION BY A COMMERCIAL OPERATOR, WHO HAS NOW PURCHASED THESE PROPERTIES.		

PRIVATE HOUSING UNITS (WHERRY ACT):

	COLUMBIA HEIGHTS		SPOKANE HOUSING		TOTAL UNITS
	HOUSES	APTS.	HOUSES	APTS.	
TOTAL UNITS	280	220	400	100	1,000
RENTED	174	110	400	94	778
VACANT	106	110	0	6	222

THE BENTON COUNTY ATTORNEY ADVISED THAT FHA HAD THREATENED TO GO TO FEDERAL COURT TO COMPEL THE COUNTY TO RECORD THE COLUMBIA HEIGHTS PLANT IN ORDER TO SELL THE HOUSING UNITS. THE COUNTY, THEREFORE, APPROVED THE FILING OF THE PLAT WITHOUT PAYMENT OF TAXES, BUT HAS A LETTER FROM THE FHA COMMISSIONER STATING THAT FHA WILL PAY SUCH TAXES AS ARE DETERMINED TO BE PROPER. DETERMINATION PROBABLY WILL BE MADE IN THE FEDERAL COURT.

DISPOSAL:

THE REPORT OF SALES FOR THE MONTH ENDING APRIL 30, 1960 IS AS FOLLOWS:

	TOTAL INVENTORY	SALES CLOSED		UNSOLD	GOOD FAITH DEPOSITS
		PAST MONTH	TOTAL		
<u>PRIORITY PROPERTIES</u>					
SINGLE HOUSES	3,788	0	3,787	1	0
DUPLEX HOUSES	1,018	0	1,017	1	1
COMMERCIALS	127	7	62	65	11
CHURCHES	6	0	6	0	0
NON-PROFITS	7	0	3	4	0
RESIDENTIAL LOTS	97	0	97	0	0
DORMITORY SITES	0	0	0	0	0
WHERRY SITES	1	0	0	1	0
<u>BID PROPERTIES</u>					
APARTMENTS	17	0	0	17	0
RESIDENTIAL LOTS	108	4	67	41	8
RESIDENTIAL TRACTS	87	3	67	20	8
COMMERCIALS	24	0	6	18	0
INDUSTRIALS	42	1	21	21	2
FLOOD PLAINS	39	0	36	3	3
TOTAL	5,361	15	5,169	192	33

APRIL 12 WAS THE DATE SET FOR THE APPEAL BOARD HEARING FOR HENRY MALCOR, WHO CONTESTED THE AWARD OF THE LAST "H" HOUSE (OZEROFF HOUSE) TO EVERETT MCGHAN, AT WHICH TIME MALCOR SAID HIS ATTORNEY WAS CALLED OUT OF TOWN. THE APPEAL WAS CONTINUED FOR TEN DAYS. AT THE END OF THIS PERIOD MR. MALCOR WITHDREW HIS APPEAL AND THE "H" HOUSE WAS CERTIFIED TO EVERETT MCGHAN.

FIVE COMMERCIAL PROPERTIES WERE CERTIFIED TO HHFA.

[REDACTED]

COMMUNITY OPERATIONS (CONT'D)

DISPOSAL (CONT'D)

HHFA INSERTED ADVERTISEMENTS OFFERING TO SELL VACANT LOTS ABOVE APPRAISED PRICE WITHOUT COMPETITIVE BIDDING. ONE RESIDENTIAL LOT WAS SOLD AND A NUMBER OF INQUIRIES RECEIVED AS A RESULT OF THIS ADVERTISING.

SALE OF THE APARTMENT HOUSES WAS ADVERTISED ON APRIL 16, WITH THE BID OPENING ON JUNE 10.

HHFA READVERTISED THE REMAINING VACANT COMMERCIAL AND RESIDENTIAL LANDS ON APRIL 23, 1960, WITH BID OPENING SET FOR MAY 31.

JOE SMITH, OF HHFA, WASHINGTON, CONFERRED WITH REPRESENTATIVES OF HOO REGARDING DISPOSAL PROBLEMS. HE ADVISED THAT A CONTRACT IS BEING SIGNED WITH LARRY SMITH, OF SEATTLE, TO MAKE AN ECONOMIC SURVEY ON BLOCK 732, NORTH OF SYMONS, FOR USE IN ADVERTISING.

SCHOOLS:

A DEED TO THE RICHLAND SCHOOL DISTRICT WAS EXECUTED BY THE MANAGER OF HOO CONVEYING THE SCHOOL MAINTENANCE YARD.

REPRESENTATIVES OF HOO MET WITH RICHLAND SCHOOL BOARD ON APRIL 4, 1960, TO DISCUSS POSSIBLE AEC PARTICIPATION IN BOND ISSUES FOR A HIGH SCHOOL ADDITION AND A SPECIAL OPERATING LEVY.

MUNICIPAL:

THE CITY COUNCIL AUTHORIZED THE CITY MANAGER TO NEGOTIATE A CONTRACT FOR A STUDY ON THE WATER SYSTEM.

SUPERIOR COURT JUDGE HAMILTON RULED THAT MCKEE AND ROBERTSON SHOULD HAVE BEEN SEATED ON THE COUNCIL AT THE FIRST MEETING IN APRIL, REPLACING COON AND STREET. THE TWO NEW COUNCILMEN WERE SEATED AT THE FIRST MEETING IN MAY.

PERSONNEL (ON-SITE)

	<u>APRIL 1</u>	<u>APRIL 30</u>
ATOMIC ENERGY COMMISSION	286	287
GENERAL ELECTRIC COMPANY	7,784	7,804
TOTAL CONSTRUCTION PERSONNEL	<u>1,071</u>	<u>1,202</u>
TOTAL PROJECT PERSONNEL	<u>9,141</u>	<u>9,293</u>

KEY PERSONNEL CHANGES:

VERNE B. LEWIS, FORMER ASSISTANT MANAGER FOR ADMINISTRATION, SEPARATED BY TRANSFER TO THE BUREAU OF THE BUDGET ON APRIL 16, 1960.

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**DATE
FILMED
8/3/92**