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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

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

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Document # Hanford 75685

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

MAY 1960

PART I

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MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

MAY 1960

PART I

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HIGHLIGHT STATEMENT - MAY 1960

OPERATIONS

A new record was established during May by the net production of canned fuel elements which totaled 725 tons. This was 116.4% of forecast and consisted of 44 tons of solid and 381 tons of I&E normal-uranium and 100 tons of I&E 94-metal. Yields were 91.1% for solid and 89.3% for I&E normal-uranium, and 89.4% for 94-metal pieces. The 89.3% yield is a new record for normal-uranium I&E fuel elements.

A new record was established by the in-reactor production which totaled 110.4% of forecast. The over-all reactor time-operated efficiency was 35.2%. New individual reactor monthly production records were established at B and KE reactors. During the month, there were 10 fuel element failures; of these, 4 were I&E normal-uranium, 5 were I&E 94-metal, and 1 was a KER production test element.

Total separations plant plutonium production was 46.2% of forecast, with 96.8% of the total produced by Purex and 3.2% by Redox. Production fell below forecast because high gamma activity caused Purex to be shut down earlier than scheduled. Purex shut down on May 11 to rework out-of-specification material and to flush equipment. The plant remained down for a neptunium recovery run during which 1,425 grams of neptunium was separated. Redox remained shut down during the early part of the month as a result of the B-2 multipurpose dissolver incident in April but processed material from the two conventional dissolvers during the latter part of the month.

Production of normal UO_3 totaled 601 tons, 100.2% of forecast. No 94 metal was produced, and none was scheduled. All shipping schedules were met.

PLANT ACQUISITION AND CONSTRUCTION

New Production Reactor - Design is 53% complete and on schedule. Construction is 2.8% complete vs. 4.4% scheduled. (See Part I, Pages 8, 10, 11.)

Reactor Confinement - Design is 94% complete. Construction is 55% complete vs. 65% scheduled. (See Part I, Pages 8 and 9.)

FRTR - Design is complete. Construction is 96% complete vs. 97% scheduled. (See Part I, Pages 8 and 9.)

FFPP - Design is complete. Construction is 96% complete vs. 87% scheduled.

COMMUNITY

Disposal - Sale of the last house in Richland was closed on May 16.

A total of 5,187 of 5,361 sale properties has been sold and an additional 19 good faith deposits placed. (See Part II, Page 3.)

PLANT OPERATIONSMETAL PREPARATION

CANNING - A NEW RECORD WAS ESTABLISHED DURING MAY BY THE NET PRODUCTION OF CANNED FUEL ELEMENTS WHICH TOTALLED 725 TONS. THIS WAS 116.4% OF FORECAST ^{1/} AND CONSISTED OF:

NORMAL URANIUM		
SOLID	44 TONS	91.1% YIELD
I&E	581 TONS	89.3% YIELD
94 METAL - I&E	100 TONS	89.4% YIELD

THE 89.3% YIELD IS A NEW RECORD FOR NORMAL-URANIUM I&E FUEL ELEMENTS. FIVE CANNING LINES OPERATED ON TWO SHIFTS ON A FIVE-DAYS-PER-WEEK BASIS. CANNING LINE TIME-OPERATED EFFICIENCY WAS 93.2%.

AT THE END OF THE REPORTING PERIOD, THE COMBINED INVENTORY OF BARE AND FINISHED ACCEPTABLE NORMAL-URANIUM FUEL ELEMENTS FOR ROUTINE PRODUCT MODELS VARIED BY TYPE FROM 2.3 TO 3.0 MONTHS² SUPPLY. COMBINED INVENTORY FOR BARE AND ACCEPTABLY FINISHED 94-METAL PIECES VARIED BY TYPE FROM 2.3 TO 3.5 MONTHS² SUPPLY. THE INVENTORY OF CAPS AND CANS AT MONTH END WAS 3.5 MONTHS² SUPPLY.

AUTOCLOVE FAILURES - TWO I&E NORMAL-URANIUM FUEL ELEMENTS FAILED DURING AUTOCLOVE TESTING IN MAY. BOTH FAILURES WERE ATTRIBUTED TO WATER ENTRY THROUGH PIN HOLES IN THE WELD BEADS.

SCRAP SHIPMENTS - TWO SCRAP SHIPMENTS WERE MADE FROM HANFORD IN MAY. THESE SHIPMENTS CONTAINED 26 TONS OF NORMAL-URANIUM METAL SCRAP, 2.0 TONS OF 94-METAL SCRAP AND 6.6 TONS OF NORMAL-URANIUM C-6 OXIDE.

REACTOR OPERATION

DURING MAY, 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)	84.6	97.5	87.2	87.2	85.2	92.5	183.5	182.0	899.7
AVERAGE LEVEL WHILE OPERATING (INCLUDES ALL PRODUCTION)	81.8	92.6	80.0	79.0	80.2	88.2	178.7	166.4	846.9
TIME-OPERATED EFFICIENCY	88.6	86.6	81.2	73.1	89.1	79.0	93.3	90.4	85.2

IN-REACTOR PRODUCTION WAS 110.4% OF FORECAST ^{1/}. THIS IS A NEW RECORD FOR IN-REACTOR PRODUCTION, TOPPING THE PREVIOUS MAXIMUM ACHIEVED IN JANUARY 1960 BY 5.4%. THE OVER-ALL TIME-OPERATED EFFICIENCY WAS 85.2% AS COMPARED WITH A FORECAST OF 81.9%. THE PRODUCTION EFFICIENCY ^{2/} WAS 86.6%. B AND KE REACTORS EACH ESTABLISHED A NEW INDIVIDUAL REACTOR MONTHLY PRODUCTION RECORD.

THERE WERE 10 FUEL ELEMENT FAILURES DURING MAY. OF THESE, 4 WERE I&E NORMAL-URANIUM, 5 WERE I&E 94-METAL, AND ONE WAS A KER TEST ELEMENT. THE CUMULATIVE NUMBER OF NORMAL-URANIUM RUPTURE INCIDENTS IS NOW 1,185, INVOLVING 1,205 PIECES (124 I&E). THE CUMULATIVE NUMBER OF 94-METAL RUPTURE INCIDENTS IS NOW 76, INVOLVING 78 PIECES. THE NUMBER OF RUPTURES DURING MAY WAS 46% LOWER THAN THE PREVIOUS THREE-MONTH AVERAGE.

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:EFG.

^{3/} PRODUCTION EFFICIENCY = $\frac{\text{SUM OF 8 AVERAGE POWER LEVELS FOR THE MONTH}}{\text{SUM OF 8 AVERAGE POWER LEVELS WHILE OPERATING}}$

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PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

EQUIPMENT EXPERIENCE - SIXTEEN PROCESS TUBES WERE INSTALLED; 12 AT DR, 2 AT H, AND ONE EACH AT D AND KE. FIVE TUBE AND THREE VAN STONE LEAKS WERE CORRECTED.

ON MAY 18, THE 2-C RELAY IN THE EMERGENCY ELECTRICAL POWER SYSTEM FAILED AT B REACTOR. THIS CAUSED THE EMERGENCY ALTERNATOR TO COME ON, BUCKING THE BPA VOLTAGE. THE RESULTING VOLTAGE FLUCTUATION IN THE INSTRUMENT POWER SUPPLY CAUSED A SCRAM, AND THE OVERHEATING REQUIRED REPLACEMENT OF THE RELAY AND CONSIDERABLE WIRING. THIS RELAY WAS ORIGINAL EQUIPMENT, AND IT FAILED PRIMARILY BECAUSE OF OLD AGE. THE SYSTEM HAS BEEN RESTORED TO NORMAL.

DINGOT URANIUM TESTING - THE REMAINING MONITOR TUBES OF ALLOYED DINGOT MATERIAL WERE DISCHARGED FROM D REACTOR AT AN EXPOSURE OF 800 MWD/1. THE ELEMENTS ARE BEING EXAMINED. NO RESULTS ARE AVAILABLE YET.

KER TESTING - ELEVEN NATURAL-URANIUM ZIRCALOY-2 JACKETED TUBULAR ELEMENTS WITH DIFFERENT BETA HEAT TREATMENTS, ONE ZIRCALOY-2 JACKETED SEVEN-ROD CLUSTER ELEMENT, AND ONE 0.89 INCH DIAMETER NATURAL-URANIUM ZIRCALOY-2 JACKETED ROD IN A ZIRCALOY-2 SLEEVE WERE CHARGED INTO KER-3 ON MAY 11. THE REACTOR WAS SHUT DOWN WITH A KER LOOP-3 NEUTRON MONITOR TRIP APPROXIMATELY TEN HOURS AFTER STARTUP ON MAY 16. THE ELEMENTS WERE DISCHARGED AND ARE AWAITING EXAMINATION.

PILE PHYSICS ASSISTANCE - SPLINE USAGE HAS CUT THE AVERAGE NONEQUILIBRIUM LOSSES FOR C AND K REACTORS TO 0.28 OF AN EQUILIBRIUM DAY. THIS COMPARES WITH ONE FULL DAY DURING THE FOURTH QUARTER OF CY 1959, A PERIOD OF PRESPLINE STARTUPS, AND 0.7 DAY DURING THE FIRST QUARTER OF CY 1960.

FOLLOWING IS A SUMMARY OF MAY REACTOR OUTAGES:

<u>DATE</u> <u>DOWN</u>	<u>DATE</u> <u>UP</u>	<u>OUTAGE</u> <u>HOURS</u>	<u>REMARKS</u>
<u>B REACTOR:</u>			
5-10	5-12	50.1	FAULTY RELAY IN EMERGENCY POWER CIRCUIT FOLLOWED BY A PERIOD OF INSUFFICIENT REACTIVITY. MISCELLANEOUS MAINTENANCE COMPLETED.
5-12	5-12	1.1	FAULTY THERMOCOUPLE IN TUBE 2875.
5-12	5-12	0.3	PANELLIT TRIP.
5-30	STILL DOWN		I&E 94-METAL RUPTURE IN TUBE 0967. TUBE REPLACEMENT.
<u>C REACTOR:</u>			
5-3	5-4	32.0	I&E 94-METAL RUPTURE IN TUBE 2287. CHARGE-DISCHARGE.
5-5	5-6	35.9	I&E 94-METAL RUPTURE IN TUBE 2780.
5-14	5-14	0.4	PANELLIT TRIP.
5-20	5-21	31.8	I&E 94-METAL RUPTURE IN TUBE 1792. CHARGE-DISCHARGE.
<u>D REACTOR:</u>			
5-1	5-3	64.3	I&E NORMAL-URANIUM RUPTURE IN TUBE 1366. CHARGE-DISCHARGE AND TUBE REPLACEMENT.
5-13	5-14	38.3	RUPTURED EXPORT WATER LINE BETWEEN 183 AND 186 BUILDINGS. MISCELLANEOUS MAINTENANCE.
5-28	5-30	36.0	LEAK CORRECTION. CHARGE-DISCHARGE AND MISCELLANEOUS MAINTENANCE.
<u>DR REACTOR:</u>			
4-30	5-2	34.2	CONCLUDED RUPTURE OUTAGE. CHARGE-DISCHARGE.
5-13	5-14	41.7	RUPTURED EXPORT WATER LINE BETWEEN 183 AND 186 BUILDINGS. MISCELLANEOUS MAINTENANCE.
5-20	5-21	35.8	LEAK TESTING AND TUBE REPLACEMENT.
5-22	5-22	0.6	REPLACE FRONT-FACE NOZZLE CAP.
5-28	STILL DOWN		I&E 94-METAL RUPTURE IN TUBE 3858. TUBE REPLACEMENT AND CHARGE-DISCHARGE.
<u>F REACTOR:</u>			
5-16	5-18	46.0	I&E NORMAL-URANIUM RUPTURE IN TUBE 2887. CHARGE-DISCHARGE.
5-20	5-21	36.0	LEAK TESTING AND TUBE REPLACEMENT.
5-22	5-22	0.4	RELAY MALFUNCTION CAUSING LOSS OF NO. 7 PUMP.

PLANT OPERATIONS (CONT'D)

REACTOR OPERATION (CONT'D)

DATE DOWN	DATE UP	OUTAGE HOURS	REMARKS
<u>H REACTOR:</u>			
5-11	5-11	0.2	PANELLIT TRIP.
5-11	5-13	46.5	I&E NORMAL-URANIUM RUPTURE IN TUBE 3171. CHARGE-DISCHARGE.
5-24	5-26	47.6	LEAK TESTING, TUBE REPLACEMENT, CHARGE-DISCHARGE, AND MISCELLANEOUS MAINTENANCE.
5-26	5-26	1.3	LOOSE REAR CAP TUBE 0953.
5-26	5-26	0.9	LOOSE REAR CAP ON 2279.
5-28	5-28	0.2	PANELLIT TRIP ON TUBE 0490.
5-28	5-30	34.5	SEVERED REAR PIGTAIL ON TUBE 0490.
5-30	STILL DOWN		LEAK TESTING VAN STONE TUBES AND TUBE REPLACEMENT.

KE REACTOR:

5-14	5-16	48.0	I&E NORMAL-URANIUM RUPTURE IN TUBE 1681. CHARGE-DISCHARGE.
5-16	5-16	2.2	HIGH ACTIVITY TRIP ON KER LOOP 3 DUE TO A RUPTURE IN TUBE 5565.

KW REACTOR:

5-3	5-4	12.3	BECKMAN TRIP AND INSUFFICIENT REACTIVITY.
5-17	5-18	33.3	PANELLIT TRIP. CHARGE-DISCHARGE.
5-31	STILL DOWN		PANELLIT TRIP. CHARGE-DISCHARGE.

FUEL ELEMENT FAILURES - FOLLOWING IS A SUMMARY OF MAY 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)							
1366-D	5-1	1194	278	1960	1.22	I&E	UNKNOWN.
3171-H	5-11	1153	645	440	0.27	I&E	SIDE FAILURE.
1661-KE	5-14	1113	493	3339	0.92	I&E	HOT SPOT.
2897-F	5-16	1053	686	210	0.15	I&E	SIDE OTHER.
(94 METAL)							
2287-C	5-3	1199	543	210	0.44	I&E	HOT SPOT.
2780-C	5-5	1169	525	3383	1.33	I&E	HOT SPOT.
1792-C	5-20	1005	675	1976	1.07	I&E	HOT SPOT.
3858-DR	5-23	991	733	1097	0.69	I&E	HOT SPOT.
0967-B	5-30	1468	703	732	0.45	I&E	UNKNOWN.
(PRODUCTION TEST)							
3565-KER-3	5-16	-	-	-	-	-	UNKNOWN.

SEPARATIONS

TOTAL SEPARATIONS PLANT PLUTONIUM PRODUCTION WAS 46.2% OF FORECAST ^{2/} WITH 96.5% OF THE TOTAL PRODUCED BY PUREX AND 3.2% BY REDOX. PRODUCTION FELL BELOW FORECAST BECAUSE HIGH GAMMA ACTIVITY CAUSED PUREX TO SHUT DOWN 12 DAYS EARLIER THAN THE SCHEDULED NEPTUNIUM RUN.

PUREX - THE PUREX PLANT PROCESSED 300.5 TONS OF NORMAL URANIUM DURING MAY.

OPERATIONS WERE CONTINUOUS UNTIL MAY 11 WHEN POOR DECONTAMINATION SHUT DOWN THE PROCESS TO RE-WORK OUT-OF-SPECIFICATION MATERIAL. DURING THE DOWN TIME THE EQUIPMENT WAS FLUSHED AND A NEPTUNIUM RECOVERY RUN WAS MADE. DURING THE NEPTUNIUM RECOVERY RUN, 1,425 GRAMS OF NEPTUNIUM WAS SEPARATED FROM AN ESTIMATED INVENTORY OF 2,050 GRAMS. THIS REPRESENTS A RECOVERY YIELD OF 64.2%.

1/ AT TIME OF RUPTURE.

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

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PLANT OPERATIONS (CONT'D)

DOCUMENT NO. HAN-75685 *del*

SEPARATIONS (CONT'D)

PUREX (CONT'D)

OPERATIONS WERE RESUMED MAY 27, BUT POOR DECONTAMINATION MADE IT NECESSARY TO PLACE THE PLANT ON TOTAL RECYCLE. VIRGIN FEED WAS NOT AGAIN INTRODUCED UNTIL MAY 31.

THE SILICA GEL FACILITY PROCESSED 240 TONS OF UNH DURING MAY TO PRODUCE IN-SPECIFICATION MATERIAL. SEVERAL BATCHES OF UNH THAT WERE HIGHER-THAN-NORMAL IN CALCIUM AND PLUTONIUM WERE COLLECTED AND BLENDED WITH IN-SPECIFICATION PRODUCT. A TOTAL OF 260 TONS OF THIS BLENDED PRODUCT WAS SHIPPED TO REDOX FOR SILICA-GEL TREATMENT.

WASTE LOSSES FOR THE MONTH TOTALLED 0.26% OF PLUTONIUM THROUGHPUT AND 0.15% OF URANIUM THROUGHPUT.

THE ATMOSPHERIC RELEASE OF RADIOACTIVE IODINE WAS 0.52 CURIE PER DAY FOR THE MONTH. THE MONTHLY TOTAL WAS 16.2 CURIES WITH A MAXIMUM OF 1.67 CURIES PER DAY.

REDOX - THE REDOX PLANT PROCESSED 26.3 TONS OF 94 METAL DURING THE LATTER PART OF MAY. BOTH PRODUCTS WERE WITHIN SPECIFICATIONS AFTER SOME PLUTONIUM WAS REWORKED.

THE PLANT REMAINED SHUT DOWN DURING THE EARLY PART OF THE MONTH AS A RESULT OF THE B-2 MULTI-PURPOSE DISSOLVER INCIDENT IN APRIL. EFFORTS WERE DIRECTED TO RESTORING NORMAL OPERATING CONDITIONS WITHOUT SPREAD OF RADIOACTIVITY AND WITHOUT JEOPARDIZING PERSONNEL SAFETY. GOOD PROGRESS WAS MADE IN REDUCING CONTAMINATION AND RADIATION LEVELS IN WORKING AREAS.

THE TWO CONVENTIONAL DISSOLVERS WERE RETURNED TO OPERATION ON MAY 7 AND WERE OPERATED THROUGH THE END OF THE MONTH WITHOUT INTERRUPTION. THE EXTRACTION COLUMNS BEGAN TO PROCESS VIRGIN FEED ON MAY 18 AND WERE OPERATED INTERMITTENTLY DURING THE REMAINDER OF THE MONTH AS FEED BECAME AVAILABLE.

WASTE LOSSES WERE MAINTAINED AT A LOW LEVEL, BEING 0.1% OF THE URANIUM THROUGHPUT AND 0.45% OF THE PLUTONIUM THROUGHPUT. TOTAL IODINE EMISSION FROM THE STACK WAS 1.32 CURIES WITH A MAXIMUM OF 0.19 CURIE PER DAY.

NEPTUNIUM ACCUMULATION WAS NORMAL DURING THE MONTH AND APPARENTLY NOT ADVERSELY AFFECTED BY THE PLANT OUTAGE. THE NEPTUNIUM ACCUMULATED IN THE PROCESS AT MONTH END WAS APPROXIMATELY 430 GRAMS.

UO₃ - PRODUCTION FOR MAY TOTALLED 601 TONS, 100.2% OF FORECAST, FOR NORMAL URANIUM. NO. 94 METAL UO₃ WAS PRODUCED OR SCHEDULED FOR MAY. ALL SHIPPING SCHEDULES WERE MET.

RESEARCH AND DEVELOPMENT

NEPTUNIUM PROCESSING - DURING A NEPTUNIUM RECOVERY RUN AT PUREX, 1,425 GRAMS OF NEPTUNIUM WERE SEPARATED. THERE WAS NO NEPTUNIUM RECOVERY RUN AT REDOX.

MERCURY CONTAMINATION HAS BEEN NOTED ON SIX TO NINE RODS. USUALLY THIS IS EVIDENCED BY ONE SPOT, 1/32 TO 1/16 INCH IN DIAMETER, NEAR THE MIDSECTION OF THE ROD. A 10% NITRIC ACID "PRELIMINARY" WASH FOLLOWED BY A RUNNING WATER RINSE HAS BEEN INCLUDED IN THE ETCHING TREATMENT. THE PROCEDURE SEEMS TO BE SATISFACTORY.

OF 241 BILLETS CAST IN MAY, 26 WERE REMELTED DUE TO GAS POCKETS.

IN THE CASTING PROCESS, THE ALUMINUM AND PLUTONIUM ARE MELTED TOGETHER AT 900°C FOR 20 MINUTES, POURED INTO A BILLET CUP AT 760°C, AND COOLED. THEN THE BILLETS ARE REMOVED, TRIMMED, AND CANNED.

AT THE END OF THE MONTH THERE WERE 369 PIECES IN THE FOLLOWING STAGES OF COMPLETION:

93 CAST FUEL CORES
4 EXTRUDED AND STRAIGHTENED RODS
193 READY FOR FINAL ETCH AND INSPECTION
79 RODS READY FOR SHIPMENT
369 TOTAL

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PLANT ACQUISITION AND CONSTRUCTIONPROJECT AND DESIGN STUDIES

AEC-167, PLUTONIUM RECYCLE TEST REACTOR - THE BID PACKAGE FOR THE MAINTENANCE AND MOCK-UP FACILITY HAS BEEN REVIEWED AND TRANSMITTED FOR CONTRACT ACTION.

CGI-791, REACTOR CONFINEMENT - DESIGN IS 94% COMPLETE VERSUS 98% SCHEDULED. THIS DEFERENCE WILL NOT AFFECT PROGRESS SIGNIFICANTLY.

DETAILED DRAWINGS ARE COMPLETE ON MODIFICATIONS TO THE 105 BUILDING AIR INTAKES AND HAVE BEEN INITIATED ON FILTER HANDLING FACILITIES.

THE ARTHUR D. LITTLE COMPANY REPORT ON MODIFICATIONS HAS BEEN RECEIVED.

TESTING OF SAMPLE FILTER TRAYS WHICH ARE LOCATED IN THE EXHAUST AIR OF THE 105 BUILDING INDICATES A FILTER LIFE IN EXCESS OF TWO YEARS.

CALHRS, NEW PROPOSED ON REACTOR - DESIGN IS UNDEVELOPED.

SCOPE: THE NPR FUEL ELEMENT DESIGN CRITERIA RDS HAS BEEN APPROVED.

RESEARCH AND DEVELOPMENT: ONE HUNDRED POINTS OF THE FUEL ELEMENT MONITOR SYSTEM DEMONSTRATION MODEL, INSTALLED IN THE C REACTOR, ARE OPERATING ELECTRICALLY.

NUCLEAR PROPERTIES OF SAMARIUM AND CADMIUM CERAMIC SAMPLES HAVE BEEN EVALUATED FOR USE IN THE BALL SAFETY SYSTEM. THESE MATERIALS APPEAR TO BE FEASIBLE FOR USE IN THE NPR AND ARE MORE ECONOMICAL THAN BORON-STAINLESS STEEL FOR FABRICATION OF THE BALLS.

THE GRAY LOCK COUPLER HAS BEEN RECOMMENDED FOR USE AT 7,025 LOCATIONS IN THE PRIMARY LOOP. MANY MONTHS OF TESTING OF COUPLERS FROM FIVE COMPETING VENDORS SHOWED THE GRAY LOCK COUPLER TO BE SUPERIOR TO THE OTHERS TESTED. THE GRAY COMPANY HAS SUBMITTED A FRONT-FAÇE NOZZLE FOR TESTING.

TESTING IS VIRTUALLY COMPLETE ON THE HORIZONTAL CONTROL RODS. IT WAS DETERMINED THAT THE INTEGRITY OF THE STRUCTURE WAS ADEQUATE, TIME REQUIREMENTS HAVE BEEN ACHIEVED, AND ACCELERATION AND DECELERATION PATTERNS ARE WITHIN LIMITS. THE HORIZONTAL ROD GAS SEAL ALSO HAS BEEN TESTED AND THE DESIGN ACCEPTED.

CGC-813, PLUTONIUM RECOVERY FROM CONTAMINATED MATERIAL, 204-E BUILDING - ONLY ONE BID WAS RECEIVED FOR THE INCINERATOR EQUIPMENT, AND THIS WAS CONSIDERABLY ABOVE THE ENGINEERING ESTIMATE.

CGC-821, PROJECT PALM - PUREX - THIS PROJECT IS BEING REVISED TO PROVIDE CONTINUOUS EXTRACTION FACILITIES IN PUREX. THIS REVISION IS EXPECTED EARLY IN JUNE. SCOPE ALSO IS TO BE COMPLETE DURING THE FIRST PART OF JUNE.

CGC-830, PLANT MODIFICATIONS FOR REPROCESSING NONPRODUCTION REACTOR FUELS - DESIGN IS CURRENTLY COMPLETE FOR THE CASK TRANSFER AND FUEL STORAGE FACILITIES. IT HAS BEEN INITIATED ON THE DISSOLUTION AND MECHANICAL PROCESSING FACILITIES.

CGH-866, SHIELDED ANALYTICAL LABORATORY - WASHINGTON APPROVAL HAS BEEN RECEIVED FOR TOTAL DESIGN, AND A DIRECTIVE IS BEING ISSUED AUTHORIZING THIS PORTION OF THE PROJECT.

CAC-880, PLUTONIUM RECLAMATION FACILITY - Z PLANT - A FAST-FOR-SCOPE DOCUMENT HAS BEEN ISSUED. TO DATE, ONLY TITLE I AND RELATED SERVICES HAVE BEEN AUTHORIZED.

CGC-895, EXPANSION 4.0 CAPACITY FACTOR PUREX - TOTAL DESIGN HAS BEEN AUTHORIZED.

CGC-897, FISSION PRODUCT CONCENTRATES STORAGE SYSTEM 200-EAST AREA - THE PROPOSAL REQUESTING TITLE I DESIGN APPROVAL HAS RECEIVED FAVORABLE LOCAL ACTION AND HAS BEEN FORWARDED TO THE WASHINGTON OFFICE FOR APPROVAL.

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PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION

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

PROJECT	PROJECT PROPOSAL NUMBER	MAJOR PROJECTS				DESIGN % ACTUAL COMPL.	PRESENT WORKING ESTIMATE (THOUSANDS)
		CONSTRUCTION		COMPLETION			
		ACTUAL STARTING DATE	SCHED. COMPL. DATE	% SCHED.	% ACTUAL		
PRT	AEC-167	3-6-58	8-30-60	97	90	100	\$ 12,750
RMC BURNING LINE, 234-5	CG-794	2-18-59	7-15-60	99	95	100	1,545
PU FAB. PILOT PLANT	CA-740	3-6-58	10-1-60	87	96	100	4,230
MET. DEV. FAC., 306 BLDG. ADDITION	CA-744	3-20-59	9-1-60	83	84	100	2,585
REACTOR CONFINEMENT	CGI-791	3-31-59	7-1-61	65	55	94	6,380
CRITICAL MASS LAB.	CG-731	6-4-59	6-30-60	99	97	100	1,000
ADD'L PU FAB. FAC. 234-5 BLDG.	CGC-811	8-24-59	7-1-61	48	46	95	3,500
NEW PROD. REACTOR*	CAI-816	5-1-59	10-1-62	4.4	2.3	53	145,000
NEW FUEL CLAD. FAC.	CAF-847	7-27-59	10-1-61	16	15	38	3,600

*SCHEDULE IS IN PROCESS OF REVISION BASED ON PURCHASE ORDER AND SUBCONTRACT AWARDS MADE IN LAST SIX MONTHS. THE 4.4% SCHEDULED PROGRESS IS BASED ON SCHEDULE OF SEPTEMBER 1959. REVISED SCHEDULE WILL BE ISSUED IN JULY AND WILL SHOW ABOUT 3.5% SCHEDULED AND 3.3% ACTUAL AS OF JULY 1, 1960.

CONTRACT AT(45-1)-1410, PROJECT AEC-167, PHASE III, PLUTONIUM RECYCLE TEST REACTOR - SHAW & ESTES, INC. - INSTALLATION AND TESTING OF THE 2,400-VOLT SWITCHGEAR AND PUMP AT THE RIVER PUMP FACILITY WAS COMPLETED.

THE CALANDRIA AND TOP PRIMARY SHIELD WERE INSTALLED THIS MONTH.

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 - THE SECOND WALL LIFT WAS PLACED DURING THE REPORTING PERIOD.
- 100-D - THE FIRST AND SECOND WALL LIFTS OF THE FILTER BUILDING WERE PLACED THIS MONTH.
- 100-DR - THE SECOND WALL LIFT WAS PLACED ON MAY 10, 1960.
- 100-F - THE CONCRETE AIR DUCTS BETWEEN THE 105 AIR EXHAUST STACK AND THE FILTER BUILDING WERE PLACED THIS MONTH.
- 100-H - THE TURNING VANES WERE INSTALLED IN THE SEAL PITS OF THE FILTER BUILDING.
- 100-KE - PLACING OF REINFORCING STEEL AND FORMS FOR THE SECOND WALL LIFT IS IN PROGRESS.
- 100-KW - THE FIRST WALL LIFT WAS PLACED ON MAY 20, 1960.

CONTRACT AT(45-1)-1491, PROJECT CGC-811, ADDITION AND ALTERATIONS TO BUILDING NO. 234-5 FOR INSPECTION FACILITY, 200 WEST AREA - W. G. CLARK CONSTRUCTION COMPANY - SIDING AND DECKING INSTALLATION ON THE BUILDING ADDITION HAS BEEN COMPLETED. LEAD SHIELDING OF THE HOODS WAS STARTED.

NEW PRODUCTION REACTOR

DESIGN - CAI-816, NEW PRODUCTION REACTOR - GENERAL ELECTRIC CO., AND BURNS & ROE, INC.

BELOW IS A TABULATION LISTING VARIOUS PERTINENT ITEMS UNDER TITLE II, DESIGN:

	GE	B & R
ESTIMATED COST	\$4,000,000	\$4,300,000
ACTUAL COST TO JUNE 1, 1960	1,990,000	2,167,000
PERCENT SCHEDULED COMPLETE	55%	51%
PERCENT ACTUALLY COMPLETE	55%	51%

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)PLANT CONSTRUCTION (CONT'D)NEW PRODUCTION REACTOR (CONT'D)TABULATION (CONT'D)

	<u>GE</u>	<u>B & R</u>
PRESENT WORK FORCE	130	159
TOTAL MAN-DAYS TO DATE	27,300	37,000
TOTAL ESTIMATED MAN-DAYS	60,000	58,000
NUMBER OF DRAWINGS REQUIRED	2,100	732
CONSTRUCTION DRAWINGS SCHEDULED	1,023	225
CONSTRUCTION DRAWINGS - ACTUAL	1,021	27
NUMBER OF SPECIFICATIONS REQUIRED	127	1
NUMBER OF SPECIFICATIONS SCHEDULED	52	5
NUMBER OF SPECIFICATIONS - ACTUAL	57	35
OVER-ALL DESIGN SCHEDULED	53	
OVER-ALL DESIGN ACTUAL	53	

CONTRACT AT(45-1)-1455, PROJECT CAL-616, NEW PRODUCTION REACTOR - KAISER ENGINEERS

181-N RIVER WATER PUMP HOUSE SUBSTRUCTURES, JENSEN-RASMUSSEN COMPANY AND B-E-C&K - BACKFILLING OF THIS STRUCTURE IS TO ELEVATION 394 FEET. CONCRETE OPERATIONS HAVE EITHER BEEN COMPLETED TO OR ARE WORKING TO THE 405.5 FOOT ELEVATION.

184-N STANDBY POWER HOUSE SUBSTRUCTURES, GEORGE A. GRANT, INC., SC-29 - EXCAVATING WORK WAS STARTED ON MAY 9, 1960, AND THE FIRST CONCRETE FOR THE BOILER FOUNDATION WAS PLACED ON MAY 24, 1960.

163-N AND 183-N WATER TREATMENT FACILITY BUILDING, SOUND ENGINEERING AND CONSTRUCTION COMPANY, SC-26 - ROUGH EXCAVATION OF THE CLEAR WELL AND DEMINERALIZATION BUILDING WAS COMPLETED ON MAY 24, 1960.

ELECTRICAL UNDERGROUND DUCT BANKS, DUKE'S ELECTRIC, SC-39 - FIELD WORK HAS STARTED ON MAY 23, 1960.

MODIFICATION TO THE 2101-M BUILDING, KAISER ENGINEERS - MODIFICATIONS OF THIS BUILDING ARE NOW COMPLETE.

T-C AREA LIGHTING AND REVISIONS TO 13.8 KV LINE, DUKE'S ELECTRIC, SC-21 - PHYSICAL COMPLETION OF THIS CONTRACT WAS MAY 13, 1960.

GRAPHITE - SIDE MACHINING (PRODUCTION LINE 1) OF "K" GRAPHITE BARS WAS COMPLETED ON MAY 5, 1960.

GREAT LAKES CARBON COMPANY SHIPPED A CARLOAD OF 1,400 BARS OF REFLECTOR GRAPHITE, MAKING A TOTAL TO DATE OF 4,000 BARS EITHER RECEIVED OR ENROUTE TO HANFORD, OF A TOTAL OF 12,300 BARS ORDERED FOR NPR.

STATUS OF "K" (OLD STOCKPILE) GRAPHITE BARS THROUGH MAY 26, 1960:

1. NO. OF BARS REQUIRED	-----	10,702
2. NO. OF BARS FINISHED	-----	7,545

ZIRCONIUM TUBE (STATUS)

	<u>RECEIVED</u>	<u>INSPECTION PROGRESS</u>
HARVEY ALUMINUM	10	THROUGH IMMERSCOPE, DYE PENETRANT, AND X-RAY.
CHASE BRASS	11	THROUGH IMMERSCOPE, DYE PENETRANT, AND X-RAY.
ALLEGHENY-LUDLUM	27	ELEVEN ARE THROUGH IMMERSCOPE, DYE PENETRANT, AND X-RAY.
		FIVE ARE THROUGH IMMERSCOPE. THREE ARE THROUGH DYE PENETRANT.
		EIGHT ARE UNTESTED.

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DOCUMENT NO. HAN-75685 *Ref*

PLANT ACQUISITION AND CONSTRUCTION (CONT'D)

PLANT CONSTRUCTION (CONT'D)

NEW PRODUCTION REACTOR (CONT'D)

PROCUREMENT (CAI-816)

ENGINEERED EQUIPMENT

	<u>No.</u>	<u>VALUE</u>
ORDERS PLACED FOR ENGINEERED EQUIPMENT -----	53	\$15,303,000
BIDS IN REVIEW PRIOR TO AWARD -----	32	12,573,000
OUT FOR BID -----	28	9,424,000
REQUISITIONS IN PREPARATION TO GOING OUT FOR BID -----	3	463,000
TOTAL FOR ENGINEERED EQUIPMENT -----	116	\$36,763,000
 TOTAL PURCHASE ORDERS PLACED, INCLUDING ENGINEERED EQUIPMENT -----	774	\$16,383,000

WASHINGTON APPROVAL OF THE AWARD OF 800 NPR ZIRCALOY-2 PROCESS TUBES TO THE HARVEY ALUMINUM COMPANY IN THE AMOUNT OF \$7,196,800 WAS RECEIVED ON MAY 5.

CONTRACTS (CAI-816) - THE FOLLOWING SUBCONTRACT ACTIONS WERE PREPARED BY KAISER ENGINEERS DURING THE MONTH OF MAY:

1. NOTICE OF AWARD WAS ISSUED ON MAY 12, 1960, TO MOWAT BROS., SEATTLE, WASHINGTON, SC-35, FOR THE 151-N SUBSTATION AND 153-N SWITCHGEAR.
2. NOTICE TO PROCEED WAS ISSUED TO SOUND CONSTRUCTION COMPANY, SC-26, EFFECTIVE MAY 16, 1960, FOR THE 163-N AND 183-N WATER TREATMENT FACILITY BUILDINGS.
3. NOTICE OF AWARD AND NOTICE TO PROCEED WAS ISSUED ON MAY 23, 1960, TO DUKE'S ELECTRIC, INC., SC-39, TO CONSTRUCT UNDERGROUND DUCT BANKS AT 151-N.
4. ON APRIL 26, 1960, A NOTICE OF AWARD WAS ISSUED TO GARRISON CONSTRUCTION COMPANY FOR STORAGE COMPOUND FENCING.

SUMMARY OF SUBCONTRACTS

NINE FIXED-PRICE SUBCONTRACTS HAVE BEEN COMPLETED FOR A CONTRACT AMOUNT OF \$557,000.

FOURTEEN FIXED-PRICE SUBCONTRACTS ARE ACTIVE WITH A TOTAL VALUATION OF \$5,899,000.

ONE FIXED-PRICE SUBCONTRACT IS BEING REVIEWED. THIS SUBCONTRACT IS IN THE AMOUNT OF \$6,449,000.

FOUR FIXED-PRICE SUBCONTRACTS ARE OUT FOR BID. THESE SUBCONTRACTS HAVE AN ESTIMATED VALUE OF \$1,923,000.

TWENTY-EIGHT BID PACKAGES FOR FIXED-PRICE SUBCONTRACTS REMAIN TO BE PREPARED WITH A TOTAL ESTIMATED VALUE OF \$38,256,000.

THE TOTAL OF FIXED-PRICE SUBCONTRACTS IS 56; TOTAL ESTIMATED VALUE IS \$53,084,000.

CONTRACT AT(45-1)-1604, PROJECT CAI-835, ADDITIONAL OFFICE SPACE, 100-D - RAYMOND J. BRITTON -
WORK ON THE CONTRACT WAS STARTED MAY 5, 1960.

PROCUREMENT (FOR PERIOD COVERING MAY 2 THROUGH MAY 27, 1960)

THE ATOMIC ENERGY COMMISSION PLACED 285 PURCHASE ORDERS IN THE TOTAL AMOUNT OF \$340,300.79 DURING THIS PERIOD.

THE ATOMIC ENERGY COMMISSION APPROVED 18 AWARDS MADE BY THE GENERAL ELECTRIC COMPANY IN THE TOTAL AMOUNT OF \$440,582.00.

CONTRACT ACTIONS

FOUR CONTRACTS WERE AWARDED BY THE ATOMIC ENERGY COMMISSION DURING THE MONTH OF MAY IN THE TOTAL AMOUNT OF \$513,881.00, AND VARYING IN SIZE FROM \$36,800.00 TO \$351,551.00. THE LARGER AWARD WAS MADE TO THE TRIANGLE CONSTRUCTION COMPANY FOR AN ADDITION TO BUILDING NO. 325-A AND RELATED WORK, 300 AREA.

THREE CONTRACTS WERE AWARDED BY KAISER ENGINEERS DURING THE MONTH, IN THE TOTAL AMOUNT OF \$190,241.00, AND VARYING IN SIZE FROM \$5,538.00 TO \$177,762.00.

AIR MAIL

JUN 13 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:REL

Enclosed herewith is Part II ("Official Use Only" portion)
of subject report for the month of MAY 1960.
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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AIR MAIL

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U. S. ATOMIC ENERGY COMMISSION
HANFORD OPERATIONS OFFICE

MONTHLY STATUS AND PROGRESS REPORT

MAY 1960

PART II

[REDACTED]

MONTHLY STATUS AND PROGRESS REPORT

HANFORD OPERATIONS OFFICE

MAY 1960

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 1960:

	<u>MAY 1</u>	<u>MAY 31</u>
A. TOTAL HOUSES AVAILABLE FOR OCCUPANCY	3	0
1. TOTAL HOUSES OCCUPIED	2	0
2. TOTAL UNOCCUPIED	1	0
(A TOTAL OF 3,788 SINGLE HOUSES AND 1,018 DUPLEXES SOLD -- 5,824 UNITS.)		
B. TOTAL APARTMENTS AVAILABLE FOR OCCUPANCY	134	134
1. TOTAL APARTMENTS OCCUPIED	134	132
2. TOTAL APARTMENTS UNOCCUPIED	0	2
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	185	114	400	97	796
VACANT	95	106	0	3	204

DISPOSAL:

REPRESENTATIVES OF THE WASHINGTON AND SPOKANE OFFICES OF FHA ADVISED THAT THEY SET UP OFFICES AT KENNEWICK FHA OFFICE TO SELL THE BAUER-DAY HOUSES, STARTING ON MAY 15. FHA WILL HANDLE ALL THE SALES TO OCCUPANTS AND MAGNUSON REALTY COMPANY OF KENNEWICK WILL SELL THE VACANT UNITS. THE HOUSES ARE APPRAISED AT \$7,250, WITH \$25 PER MONTH CREDIT TO THOSE WHO OCCUPIED THE HOUSES SINCE APRIL 1959. NO PROPERTIES ARE TO BE SOLD TO SPECULATORS OR TO INVESTORS.

ON MAY 27, 1960, THE KENNEWICK FHA OFFICE REPORTED RECEIVING DOWN PAYMENTS ON MORE THAN 100 OF THE 280 BAUER-DAY HOUSES. THE REALTY AGENCY, WHICH WILL SELL THE UNOCCUPIED HOUSES, HAS A LIST OF MORE THAN ENOUGH PEOPLE TO TAKE ALL OF THE VACANT HOUSES. FHA HOPES TO COMPLETE ITS SALES TO ALL OCCUPANTS BY JUNE 15.

THE SALE OF THE LAST HOUSE IN RICHLAND WAS CLOSED ON MAY 16. THE DEED WAS SIGNED BY HHFA ADMINISTRATOR, NORMAN MASON, AND WAS SENT TO EVERETT MCGHAN, THE PURCHASER.

HHFA OPENED BIDS ON 37 VACANT PROPERTIES ON MAY 31 AND RECEIVED ACCEPTABLE BIDS ON SIX PROPERTIES.

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

	<u>TOTAL INVENTORY</u>	<u>SALES CLOSED</u>		<u>UNSOLD</u>	<u>GOOD FAITH DEPOSITS</u>
		<u>PAST MONTH</u>	<u>TOTAL</u>		
<u>PRIORITY PROPERTIES</u>					
SINGLE HOUSES	3,788	1	3,788	0	0
DUPLEX HOUSES	1,018	1	1,018	0	0
COMMERCIALS	127	1	63	64	13
CHURCHES	6	0	6	0	0
NON-PROFITS	7	0	3	4	1
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	8	75	33	2
RESIDENTIAL TRACTS	87	3	70	17	2
COMMERCIALS	24	0	6	18	0
INDUSTRIALS	42	1	22	20	1
FLOOD PLAINS	39	3	39	0	0
TOTAL	<u>5,361</u>	<u>18</u>	<u>5,187</u>	<u>174</u>	<u>19</u>

COMMUNITY OPERATIONS (CONT'D)

MUNICIPAL:

NEWLY ELECTED COUNCILMEN MCKEE AND ROBERTSON TOOK THEIR SEATS ON THE CITY COUNCIL. JOYCE KELLY WAS ELECTED THE NEW MAYOR OF RICHLAND.

THE FEDERAL BUREAU OF THE CENSUS REPORTED RICHLAND POPULATION AT 23,521.

TOLL FREE TELEPHONE SERVICE BETWEEN PASCO, KENNEWICK AND RICHLAND WENT INTO EFFECT MAY 16.

SCHOOLS:

REPRESENTATIVES OF HOO MET WITH THE RICHLAND SCHOOL BOARD IN AN INFORMAL DISCUSSION OF THE SCHOOL'S POSSIBLE NEED FOR CONSTRUCTION FUNDS TO BUILD AN ADDITION AND REPLACEMENT STRUCTURES AT THE HIGH SCHOOL.

REAL ESTATE:

THE PROPERTY BRANCH RECEIVED A CHECK FOR \$8,750 FROM THE POST OFFICE DEPARTMENT TO CONCLUDE THE POST OFFICE BUILDING TRANSFER BY THE GENERAL SERVICES ADMINISTRATION.

THE FEDERAL JURY, WHICH VIEWED SEVEN TRACTS ON WAHLUKE SLOPE, SPENT FOUR DAYS IN HEARING TESTIMONY AND RETURNED VERDICTS WHICH, COMPARED TO VERDICTS IN THE PAST, WERE VERY FAVORABLE TO THE GOVERNMENT. THE DEPARTMENT OF JUSTICE STILL IS STUDYING THE ADVISABILITY OF APPEALING THE AWARDS MADE BY THREE COMMISSIONERS LAST YEAR ON VARIOUS TRACTS.

PERSONNEL (ON-SITE)

	<u>MAY 1</u>	<u>MAY 31</u>
ATOMIC ENERGY COMMISSION	287	289
GENERAL ELECTRIC COMPANY	7,804	7,809
TOTAL CONSTRUCTION PERSONNEL	<u>1,202</u>	<u>1,327</u>
TOTAL PROJECT PERSONNEL	<u>9,293</u>	<u>9,425</u>

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END

**DATE
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9/01/92**