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J. Veele 12.11.91

January 19, 1959

CHEMICAL PROCESSING DEPARTMENT

DAILY PRODUCTION REPORTS

10-1-58 THROUGH 12-31-58

By

R. E. ROBERTS

Doc. No. 63
Page No. 1
Copies, 3

JAN 21 1992

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-1-58

PAGE 1

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500							
2. PRODUCED DURING MONTH	17	0	27	150	3			
3. P R CAN INVENTORY	28	18	27					
4. R C CAN INVENTORY	32	1	2					

PUREX

Processing continues at 16 T/D. UNH product gamma ratio is now within specs.

REDOX

Maintenance continues on the plutonium concentration equipment.

UO₂

Five calciners are operating satisfactorily. The K calciner was placed in service at 6:25 PM on 10-1-58.

234-S

Hood 9-A operation was normal.

241

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WITH PLUTONIUM

at 9:14 AM

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NW.

DATE 10-2-58

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500							
2. PRODUCED DURING MONTH	32	0	47	170	6			
3. P R CAN INVENTORY	26	18	18					
4. R C CAN INVENTORY	31	1	0					

PUREX

Processing continued at a rate of 16.

REDOX

Maintenance continues on the plutonium concentration equipment.

UO₂

Satisfactorily

Four calciners are operating satisfactorily. All units were shut down from 6 AM until 12 noon for a major steam shutdown on the main supply. It was necessary to shut down the 1 calciner at 4:45 PM due to a mis-aligned weir rod.

234-S

Head 9-A operation was normal.

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DATE 10-5-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-5	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500							
2. PRODUCED DURING MONTH	67	0	64	196	56			
3. P R CAN INVENTORY	25	18	22					
4. R C CAN INVENTORY	31	0	0					

PUREX

Operation was normal over the week end at 16 T/D. Scheduled shutdown of the plant began at 4:15 PM on 10-5-58, when feed to the HA column was stopped.

An operator was sprayed with recycle solution while transferring the material to the E-3A tank. The RC can was apparently pressurized. The man was decontaminated successfully and released.

REDOX

Work on the plutonium concentration equipment is nearing completion.

UO₂

Week-end shutdown of the calciners was normal. Work on repair of the bent weir rod in the L calciner was completed and the unit is ready for operation. Start-up of the calciners on 10-6-58 was delayed due to a faulty steam trap on the main steam header.

234-5

Hood 9-A operation was normal. During the processing of the dummy run in preparation for the week end shutdown, the feed pump plugged.

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58		660				
2. PRODUCED DURING MONTH	74	0	75	158*	6			
3. P R CAN INVENTORY	27	18	13					
4. R C CAN INVENTORY	34	0	4					

PUREX

The building is down for flushing and maintenance.

Inspection revealed that one tube bundle in the H-4 concentrator and one in the F-6 concentrator are leaking and will require replacement.

REDOX

The operation was resumed at 10:30 AM on 10-6-58 at a rate of 10 T/D.

UO₂

After repairs to the steam traps of the main steam header were completed, four calciners resumed operation by 3:30 PM on 10-6-58.

*Corrected to reflect actual beginning UO₂ powder inventory.

234-S

The operation of Hood 9-A was somewhat erratic due to plugging of the recycle pump.

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DATE 10-7-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58		660				
2. PRODUCED DURING MONTH	74	3	84	183				
3. P R CAN INVENTORY	33	18	13					
4. R C CAN INVENTORY	32	0	4					

PUREX

Equipment flushing and maintenance is continuing.

REDOX

The operation was shut down for about 8 hours due to a faulty steam trap on the 2nd stage backcycle concentrator. Operation was resumed at 5:45 PM at a rate of 8 T/D.

UO₂

Four calciners are operating satisfactorily. Work on the M calciner is completed and the unit is heating for start-up.

234-S

Hood 9-A was down the major part of the day for repairs to the oxalic system and to permit clean-up of contamination from a leaking connection.

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DATE 10-8-58

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58		660				
2. PRODUCED DURING MONTH	78	9	96	214	11			
3. P R CAN INVENTORY	2 MR 25	18	0					
4. H C CAN INVENTORY	26	0	10					

PUREX

Maintenance work proceeding according to schedule.

REDOX

Plant rate limited to 8 Tons/day due to difficulties with organic pump and mal-functioning of steam trap on organic still.

UO₂

Four calciners in operation.

234-S

Operation of Hood 9A intermittent throughout the day due to difficulties with Task I precipitations.

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DATE 10-9-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX
1. SCHEDULED FOR MONTH	500	58	253	660	X
2. PRODUCED DURING MONTH	78	19	101	255	11
3. P R CAN INVENTORY	20	23	0	X	X
4. R C CAN INVENTORY	27	3	10	X	X

PUREX

Equipment maintenance is continuing.

REDOX

Operations normal at 8 T/D. The last shipment of material has been received and has been charged to a dissolver.

UO₂

Four calciners are operating satisfactorily.

234-S

Hood 9-A was down most of the day to permit clearing lines which were plugged from pumping off-standard solution. The remainder of the week will be spent in cleaning the unit.

* Combined Sept.-Oct.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-12-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660	X			
2. PRODUCED DURING MONTH	87	26	101	301	11			
3. P R CAN INVENTORY	30	0	3	X				
4. R C CAN INVENTORY	27	3	2	X				
PUREX	4	0	51					

Scheduled equipment maintenance is nearing completion.

REDOX

The scheduled shutdown of the plant for the week end was normal. Operation was resumed at 1:45 AM on 10-13-58 at a rate of 8 T/D.

UO₂

Week end shutdown of the calciners was normal. The calciners are scheduled to remain down while automatic valves are installed on the feed to the calciners. Start-up of the plant is expected about Wednesday.

234-S

Hood 9-A was down for replacement of the drum filter cloth and the Poroloy filters and the installation of rotameters.
Clean-up of Hood 9-B is under way.

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DATE 10-13-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D 235-UP	E RECUPLEX	F	G Produced	H Shipped
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	87	33	105	301	12			
3. P R CAN INVENTORY	31	0	0					
4. R C CAN INVENTORY	21	3	0					

PUREX

Maintenance work was completed and the operation was resumed at 10:30 PM on 10-13-58 at a rate of 20 T/D.

REDOX

Operations normal at 8 T/D.

234-S

The calciners remain down while work continues on the calciner valves. Recovery of powder from the filter bags continues.

234-S

Hood 9-A resumed operation after repairs were completed; however, at 6:45 PM the discharge valve failed and the unit was shut down.

A contaminated injury was incurred by an operator while gaging in the machining hood. Decontamination and treatment was given at First Aid.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 10-14-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂ %	RECUPLER			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	87	40	118	301				
3. P R CAN INVENTORY	20	3	0					
4. R C CAN INVENTORY	21	3	0					
PUREX	41	3						

Processing continues at 20 T/D. UNH gamma ratios are slightly high, but have shown steady improvement. Rates are being held down until waste losses stabilize.

REDOX

The processing rate was reduced to 6 T/D at 3:15 PM on 10-14-58 as the head end inventory becomes depleted.

UO₂

Work continues on the calciner valves. Four calciners are heating in preparation for start-up as the maintenance work nears completion.

234-S

Work was completed on Hood 9-A and the operation was resumed at 10:00 AM on 10-14-58. Operation since has been satisfactory.

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DATE 10-15-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-3	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	101	44	134	301	24			
3. P R CAN INVENTORY	7	0	0					
4. R C CAN INVENTORY	21	3	0					

PUREX

Processing continues at about 20 T/D. URM is slightly higher than normal in gamma but is within specs. The first batch of Pu is just above specs and is being held for blending.

REDOX

Extraction was down for about seven hours awaiting head-end processing. Processing rate is now 5 T/D.

UO₂

Three calciners had resumed operation by 8:15 PM on 10-15-58. The G unit was found to have a bent weir rod, which is being replaced. Some difficulty was experienced with plugged feed lines during start-up; otherwise the start-up was normal.

234-3

Hood 9-A was down for about 7 hours for unplugging of the B valve and replacement of the off-gas filter. Operation is now satisfactory.

Q/w

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 10-16-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	121	47	114	306	28			
3. P R CAN INVENTORY	0	3	7					
4. R C CAN INVENTORY	22	3	0					

PUREX

The processing rate was increased to 22 T/D at 5:00 PM on 10-16-58. UNH continues to require silica gel treatment. Pu batches are being loaded for shipment.

REDOX

The Precycle was shut down on completion of the special processing. Flushing and stripping of the operating equipment has started.

UO₂

Four calciners are operating satisfactorily. The G calciner was placed in service at 7:00 PM on 10-16-58 after the damaged weir rod had been replaced.

234-S

A poor strike following a switch in on-line feed tanks necessitated a shutdown of Hood 9-A while the material was removed to Recovery. After the recycle lines were cleared, the operation was resumed, and operation since has been normal.

see Ind. W.

Approved: Out (4 - 57)

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-19-58

PAGE 1

	A	B	C	D	E
	PUREX	REDOX	234-S	UO ₂	RECUPLEX
1. SCHEDULED FOR MONTH	500	58	253	660	X
2. PRODUCED DURING MONTH	194	50	146	346	30
3. P R CAN INVENTORY	11	23	26	X	X
4. R C CAN INVENTORY	23	3	0	X	X

PUREX

The processing rate was increased to 25 T/D on 10-17-58.
The leaking HS column has been removed to the hot maintenance shop for repairs.

A leak developed in the Pu concentrator in the ion exchange unit. Temporary repairs have been made. Plans are to divert the flow to L cell while permanent repairs are made to the concentrator.

REDOX

Week end shut down of the operation was normal.

UO₂

Shutdown of the four operating calciners for the week end was normal. Start-up of the calciners on 10-20-58 was delayed by a frozen feed header. Clearing of the header is under way.

234-S

Operation of Hood 9-A was limited by shortage of feed.

WRC J.L.W.

A-6800-DUI (4 - 57)

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DATE 10-20-58

CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPERATOR			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	215	54	151	351				
3. P R CAN INVENTORY	32	23	2					
4. B C CAN INVENTORY	21	3	0					

PUREX

Operations normal at 25 T/D.

REDOX

The Pu cycle is reworking out-of-specs material.

UO₂

Four calciners are operating satisfactorily. The calciners resumed operation after the feed header had been cleared late in the day.

234-B

Hood 9-A was down for repairs to the orifice line and the off-gas filter from the fluorinator.

J. L. W.

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DATE 10-21-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	243	54	156	367	35			
3. P R CAN INVENTORY	32	3	8					
4. R C CAN INVENTORY	21	4	0					

PUREX

Operations normal at 25 T/D. Fabrication of a new lower section for the ion exchange Pu concentrator has been completed. Installation is scheduled for 10-23-58.

REDOX

The processing of Chalk River material has started. The first batch of E metal has been charged to the A dissolver.

UO₂

Four calciners are operating satisfactorily.

234-S

Hood 9-A was out of service while the fluorinator discharge valve was undergoing repairs. Operation was resumed at 1:30 PM, and since that time the operation has been satisfactory.

J. W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-22-58
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-9	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	250	55	172	392	35			
3. P R CAN INVENTORY	28	6	8					
4. R C CAN INVENTORY	20	4	2					

PUREX

Operations normal at 25 T/D. Final Pu processing has been diverted to L cell to permit the repair of the ion exchange Pu concentrator. Repair of the HS column has been completed and the unit is undergoing hydrostatic testing.

REDOX

Flushing of the extraction columns is under way.

UO₂

Five calciners are operating satisfactorily. The M calciner was placed in service at 2:10 PM on 10-22-58.

234-9

Hood 9-A operated satisfactorily.

W. J. W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-23-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-U	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	285	55	182	428	35			
3. H C CAN INVENTORY	23	3	14					
4. H C CAN INVENTORY	20	4	2					
PUREX	47	12		36				

The processing rate was increased to 3.2 CF (about 27 T/D). Operations normal, and both products are within specs. Repair of the ion exchange Pu concentrator is completed and the unit is back in service.

REDOX

Column flushing is continuing.

UO₂

Five calciners are operating satisfactorily.

234-U

Hood 9-A operated well during the day. Replacement of the filter cloth is now under way.

2101 J. L. W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-26-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660	XXXX			
2. PRODUCED DURING MONTH	356	55	190	463	38			
3. P R CAN INVENTORY	30	30	20	XXXX				
4. R C CAN INVENTORY	24	4	2	XXXX				
PUREX	116	17	36					

The processing rate over the week end varied from 24 to 27 T/D. The present rate is 27 T/D. Repair of the HS column was completed and the unit has been installed in position. Jumper installation is under way.

REDOX

Equipment flushing is nearing completion. Dissolving of E metal has started.

UO₂

Week end shutdown of the calciners was normal. Operation of the calciners was resumed, starting at 2:20 AM on 10-27-58. Six calciners are now in operation.

234-B

After replacement of the drum filter cloth, operation of Hood 9-A was satisfactory.

mef J.W.

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DATE 10-27-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E
	PUREX	REDOX	234-S	UO ₂	RECUPLEX
1. SCHEDULED FOR MONTH	500	58	253	660	X
2. PRODUCED DURING MONTH	377	55	205	473	15
3. R R CAN INVENTORY	33	34	14	X	X
4. R C CAN INVENTORY	23	3	0	X	X

PUREX

Operations normal at 27 T/D. Installation of jumpers on the HS column is continuing.

REDOX

Preparations are under way for the reworking of the UO₂ waste material.

UO₂

Six calciners are operating satisfactorily.

234-S

Hood 9-A operation was normal.

W. J. W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-28-58
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	A	B	C	D	E
	PUREX	REDOX	234-S	UO ₂	RECUPLEX
1. SCHEDULED FOR MONTH	500	58	253	660	X
2. PRODUCED DURING MONTH	396	55	214	524	X
3. P R CAN INVENTORY	39	38	7	X	X
4. R C CAN INVENTORY	19	3	0	X	X

PUREX

The operation was shut down for about 8 hours while the final tie-ins were made to the HS column. The Operation was resumed at 4:30 PM on 10-28-58 at a rate of 27 T/D. The HS column has been returned to service.

REDOX

UO₂ waste material is being reworked through the final uranium cycle.

UO₂

Six calciners are operating satisfactorily.

234-S

Hood 9-A was down for a short period to permit replacement of the drum filter cloth.

J.L.W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-28-58
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	58	253	660				
2. PRODUCED DURING MONTH	425	55	223	574	18			
3. P R CAN INVENTORY	36	40	6					
4. R C CAN INVENTORY	19	3	0					

PUREX

Operations normal at 27 T/D.

REDOX

UO₂ rework is continuing.

UO₂

Six calciners are operating satisfactorily.

234-S

Hood 9-A was removed from service for repairs to the vacuum system.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-30-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPER			
1. SCHEDULED FOR MONTH	500	58	253	660	X			
2. PRODUCED DURING MONTH	446	55	230	614	19			
3. R C CAN INVENTORY	31	22	14	X				
4. R C CAN INVENTORY	22	3	1	X				
PUREX	100							

Operations normal at 3.2 CF.

REDOX

UO₂ waste rework is continuing.

UO₂

Six calciners are operating satisfactorily.

234-S

Operation of Hood 9-A was resumed at 1:30 PM after vacuum system repairs were completed; however, the unit was again shut down at 9:15 PM when the HF line began plugging.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 10-31-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPER			
1. SCHEDULED FOR MONTH	500	58	253	2660	X			
2. PRODUCED DURING MONTH	474	55	230	2640	219			
3. P R CAN INVENTORY	36	17	37	X				
4. R C CAN INVENTORY	15	3	0	X				

PUREX

October production of Pu and U was 88% and 94%, respectively, of the Official Forecast.

Nov. 2 — The operation experienced a partial loss of partitioning, and as a result the UNH has been out of specs. The trouble has been corrected and product quality is improving. Processing continues at 27 T/D.

flashed changes for Palm recovery -

REDOX

October production of Pu and U was 100% and 100%, respectively, of the Official Forecast.

All the UNH has been high in Pu and gamma ratio, and has been routed back through the process for rework.

UO₂

October production of UO₂ was 100% of the Official Forecast.

Four calciners had resumed operation after the week end shutdown by 5:00 AM on 11-3-58.

234-S

Hood 9-A was down for repairs to the HF system and overhaul of the HF rotameter.

see J.H.W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-3-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	183	659	X			
2. PRODUCED DURING MONTH	80	0	6	110	21			
3. P R CAN INVENTORY	36	18	50	X	X			
4. R C CAN INVENTORY	16	3	0	X	X			

PUREX

27

Processing continues at 27 T/D. The UNH remains high in Pu.

REDOX

UO₂ rework was halted to permit flowsheet changes.

UO₂

Four calciners are operating satisfactorily. The other two units are down for rebrushing of the motors.

234-S

Some difficulty was experienced with the electrical system of the fluorinator B valve and motor. The calciner B valve failed and was overhauled. Operation was resumed at 5:15 PM, and since that time the operation has been normal.

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DAILY PRODUCTION REPORT

DATE Nov. 4, 1958

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	183	659				
2. PRODUCED DURING MONTH	108	0	21	135	19			
3. P R CAN INVENTORY	33	18	35					
4. R C CAN INVENTORY	16	3	0					

PUREX

The processing rate was decreased to 24 T/D at 5:30 PM on 11-4-58.
UNH remains high in Pu.

REDOX

UO₂ waste rework was resumed.

UO₂

The calciners were shut down when the feed line to the calciner feed tanks became plugged. Three calciners resumed operation at 10:30 PM on 11-4-58.

234-S

Hood 9-A operated satisfactorily. Hood 7-A required shutting down to clear plugged cake from the calciner.

use J. L. W.

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HW. 58933-D.C.

CHEMICAL PROCESSING DEPARTMENT
 DAILY PRODUCTION REPORT

DATE 11-5-58
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	659	X			
2. PRODUCED DURING MONTH	130	0	38	150	19			
3. R R CAN INVENTORY	37	12	25	X				
4. R C CAN INVENTORY	16	3	0	X				

PUREX

Operations normal at 24 T/D. The UNH product is now within specs.

REDOX

Processing of UO₃ waste material is continuing.

UO₃

Three calciners are operating satisfactorily.

234-S

Hood 9-A operation was normal.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-6-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	659	X			
2. PRODUCED DURING MONTH	159	0	55	170	19			
3. P R CAN INVENTORY	35	16	27	X	X			
4. R C CAN INVENTORY	13	11	0	X	X			

PUREX

47

0

Processing continues at 24 T/D.

REDOX

UO₂ rework is continuing. UNH product is now within specs.

UO₂

The three operating calciners were shut down when the acceptable feed supply became depleted. Personnel were sent to the 234-5 Bldg to assist in decontamination.

234-S

Hood 9-A operation was normal.

A spread of contamination occurred in Zone III when the hood containing the pressing equipment became pressurized. Two operators were found with positive nasal smears, but both were successfully decontaminated. Clean-up of the area is under way.

WRC J.W.

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HW.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-9-58

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	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	530	30	233	659				
2. PRODUCED DURING MONTH	224	0	66	170	19			
3. P R CAN INVENTORY	24	16	39					
4. R C CAN INVENTORY	39	11	0					

PUREX

71

Processing continues at 24 T/D. Gamma ratios of the UNH have been showing improvement but are still high. The silica gel equipment was shut down on 11-9-58 for regeneration. Plutonium product remains within specs.

REDOX

The process was shut down at 10:15 PM on 11-7-58 for the week end.

One trailer load of UNH which was received on 11-7-58 has been processed through the silica gel facility.

UO₂

Four calciners had resumed operation by 6:30 AM on 11-10-58.

234-S

Reed 9-A operation was normal.

see J.L.W.

A-ARGO-UNI (4 - 57)

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-10-58
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	A	B	C	D	E	F	G	H
	MIREX	REDOX	234-S	235-VO ₂	RECUPER			
1. SCHEDULED FOR MONTH	530	30	233	2659				
2. PRODUCED DURING MONTH	245	0	78	195	26			
3. P R CAN INVENTORY	23	12	28					
4. R C CAN INVENTORY	20	26	0					

PUREX

Processing continues at 24 T/D. UNG gamma ratio is about 3.5 .

REDOX

The rework of UO₃ waste has been resumed.

UO₃

Four calciners are operating satisfactorily. Replacement of the shear pins on the other two calciners is under way.

234-S

Hood 9-A was down to permit replacement of the filter cloth. Operation since then has been normal.

W.D. J.W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-11-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	235-UD ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612				
2. PRODUCED DURING MONTH	267	0	92	225	119			
3. P R CAN INVENTORY	34	12	18					
4. R C CAN INVENTORY	0	24	0					

PUREX

Processing continues at 24 T/D. The Silica Gel tail-end treatment was regenerated, bringing UNH gamma ratios down from 3.5 and 4.5 to less than 1.5.

REDOX

The rework of UO_3 waste continues.

 UO_3

Four calciners are operating satisfactorily. Shear pins replacements continue on the other two units.

234-B

Head 9-A operation was normal until 9:10 PM when the unit was shut down for replacement of a broken Fluorinator off-gas filter.

mre J. LW

A-6400-001 (4 - 37)

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DAILY PRODUCTION REPORT

DATE 11-12-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-U	235-UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612				
2. PRODUCED DURING MONTH	296	0	97	260	22			
3. P R CAN INVENTORY	56	5	13					
4. R C CAN INVENTORY	4	7	0					

PUREX

Processing continues at 24 T/D.

REDOX

Rework of UO₃ waste is continuing.

UO₃

Four calciners are operating satisfactorily.

234-U

Hood 9-A was down for cleaning of the filters and off-gas lines. Operation since that time has been satisfactory.

A-5000-071 (4-77)

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-13-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612				
2. PRODUCED DURING MONTH	317	0	114	289	26			
3. P R CAN INVENTORY	19	17	7					
4. R C CAN INVENTORY	5	7	0					

PUREX

The processing rate was reduced to 23 T/D when the organic stripping column in the uranium cycle showed signs of upset.

REDOX

The processing of building flushes are under way.

UO₂

Four calciners are operating satisfactorily. The J calciner has been charged and is heating. Re-assembly of the K calciner is under way.

234-S

Hood 9-A operation was normal.

141

(C-001 (4 - 57))

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NW. 58932-De

DATE 11-16-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-B	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	530	30	233	612				
2. PRODUCED DURING MONTH	389	0	120	319	30			
3. P R CAN INVENTORY	10	18	36					
4. R C CAN INVENTORY	6	7	0					

PUREX

Processing continues at 23 T/D. Some Palm loss was experienced from the H column, but the condition has been corrected. The 1W batch containing the suspected lost material has been segregated and is being sampled. The UNH remains out of specs in gamma.

REDOX

Building flushing and processing of the flush material is continuing.

UO₂

Four calciners had resumed operation after the week end shutdown by 2:30 AM on 11-17-58. Minor repairs are being made to the H calciner in preparation for start-up. The K calciner is being charged with bedding powder.

234-B

Some difficulty was experienced with the fluorinator vacuum.

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DATE

11-17-51

PAGE

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612				
2. PRODUCED DURING MONTH	410	0	134	348	40			
3. P R CAN INVENTORY	38	9	42					
4. R C CAN INVENTORY	6	7	0					

PUREX

130

Processing continues at 23 T/D. Some improvement has been noted in the gamma ratio of the UNH. The first two samples of the segregated LW showed no Palm.

REDOX

The processing of building flush material is continuing.

UO₂

Five calciners are operating satisfactorily.

234-S

Some difficulty was experienced with the oxalate powder sticking to the calciner screw.

W. J. W. O

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HW 58933-2el
HW 58933-2el

CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-18-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612				
2. PRODUCED DURING MONTH	- 432	- 0	144	378	41			
3. P R CAN INVENTORY	40	3	41					
4. R C CAN INVENTORY	5	7	0					

PUREX

Processing continues at 23 T/D. Resample of the LW solution indicates about 150 units of Palm.

REDOX

UW continues to be processed through the silica gel unit. The processing of building flush material is continuing.

UO₂

Five calciners are operating satisfactorily.

234-B

Hood 9-A was down for part of the day for recalibration of the oxalic acid addition equipment.

VLC

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NW. 50931-Deel

DATE 11-19-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	IN UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612				
2. PRODUCED DURING MONTH	454	0	153	418	46			
3. P R CAN INVENTORY	40	7	34					
4. R C CAN INVENTORY	8	1	4					

PUREX

Processing continues at 23 T/D.

REDOX

The processing of building flush material is continuing. Clean-out of the 233-S Building equipment is under way.

UO₂

Five calciners are operating satisfactorily.

234-S

Hood 9-A was down for repairs and adjustments to improve the fluorinator vacuum.

ml

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-20-58

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	A	B	C	D	E
	PUREX	REDOX	234-S	UO ₂	RECUPLEX
1. SCHEDULED FOR MONTH	530	30	233	612	
2. PRODUCED DURING MONTH	475	0	166	438	56
3. P R CAN INVENTORY	41	8	33		
4. R U CAN INVENTORY	4	8	0		

PUREX

Processing continues at 23 T/D. The batch of LW has been returned to the process for recovery of the Palm through the new LW ion exchange unit.

REDOX

The processing of UNH has been completed. Preparations are under way to begin processing slag and crucible rework material.

UO₂

Five calciners are operating satisfactorily. A shortage of containers limited loading.

234-S

Some difficulty was experienced with wet exalate cake, which required that Hood 9-A be shut down for short periods on several occasions.

J. Lee m

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT							
	A	B	C	D	E	F	G
	PUREX	REDOX	234-S	UO ₂	RECUPLEX		
1. SCHEDULED FOR MONTH	530	30	233	612			
2. PRODUCED DURING MONTH	516	0	179	479	69		
3. P R CAN INVENTORY	41	6	45				
4. R C CAN INVENTORY	4	8	0				

PUREX 16.4 4.0

Routine processing was suspended and Palm recovery operations were started at 9:15 PM on 11-23-58. Palm operations are normal. The 1WW ion exchange unit was placed in operation at 11:30 PM on 11-22-58; however, plugging of the resin bed occurred shortly after start-up.

REDOX

Head end processing of SCF material is continuing.

UO₂

All available shipping containers have been filled. Back-up of powder in the system has caused some interference with the operation. Four calciners had resumed operation by 3:20 AM on 11-24-58. One carload of containers arrived late Friday and is available for loading.

234-S

Hood 9-A operation was normal excepting for the final run before the week-end shutdown, when a wet cake was produced.

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DATE 11-24-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612	X			
2. PRODUCED DURING MONTH	516	0	188	514	74			
3. P R CAN INVENTORY	42	8	38	X	X			
4. R C CAN INVENTORY	0	8	0	X	X			

PUREX Palm processing operations are normal.

REDOX

Processing of SCF material is continuing.

UO₂

Four calciners are operating satisfactorily. Minor maintenance and repairs are underway on G & H calciners

234-B

Hood 9-A was out of service until 11:00 AM on 11-24-58 as a result of a scheduled outage of instrument air.

S. L. W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-25-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	530	30	233	612	☒			
2. PRODUCED DURING MONTH	520	0	203	539	84			
3. P R CAN INVENTORY	11	8	27	☒	☒			
4. R C CAN INVENTORY	0	8	0	☒	☒			

PUREX Palm processing operations are normal.

REDOX

Processing of SCF material is continuing.

UO₂

Four calciners are operating satisfactorily. All available shipping containers have been loaded and material is being stored in powder hoppers.

234-B

Hood 9-A operated satisfactorily with exception of some difficulty with fluorinator vacuum.

see J.L.W.

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AFTER FILLING IN

CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 11-30-58
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	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	530	30	233	612	X			
2. PRODUCED DURING MONTH	526	0	214	539	93			
3. P R CAN INVENTORY	32	8	27	X	X			
4. R C CAN INVENTORY	5	8	0	X	X			

PUREX

November production of Pu and U was 109% and 105%, respectively, of the Official Forecast.

Palm processing was completed at 2:30 AM on 12-1-58.

The J-4 pulser failed and has been replaced. Crane repairs have been completed, which permitted removal of the F-5 fractionator to H cell for repairs.

Most of the Palm material was lost to the waste streams. The waste has been segregated for rework. About 10 units remains in the product stream.

REDOX

S-metal processing shown on the Official Forecast was deferred until December to permit completion of UO₂ waste rework and processing of SCF material.

UO₂

November production of UO₂ was 91% of the Official Forecast.

Start-up of the calciners after the tank and shutdown was delayed by a leaking jacket in the UNH feed tank I-30.

234-S

Hood 9-A operation was normal. Fabrication operation worked on an overtime basis on 11-27-58.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-1-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	0	0	15	65	0			
3. P R CAN INVENTORY	35	8	18					
4. R C CAN INVENTORY	6	8	0					

PUREX

Palm product was loaded out and normal operations were resumed at 0540, 12-2-58, at 2.64 CF.

REDOX

Processing of rework material is underway.

UO₂

Five calciners are operating satisfactorily. Loss of vacuum on the calciners caused by failure of the C-4-1 pump over the weekend and acid holdup in the scrubbers delayed startup until the 8-4 and 4-12 shifts on 12-1-58.

234-B

Hood 9-A operation was normal.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 1-1-51

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-U	235-UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625	X			
2. PRODUCED DURING MONTH	0	0	31	150	X			
3. P R CAN INVENTORY	31	8	3	X	X			
4. R C CAN INVENTORY	6	9	0	X	X			

PUREX

Processing continues at 22 T/D.

REDOX

Processing of rework material was completed and an acid flush of the building is underway.

UO₂

Five calciners are operating satisfactorily.

234-U

Hood 9-A operation was normal.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-3-58

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	A	B	C	D	E
	PUREX	REDOX	234-S	234-UO ₂	RECUPLEX
1. SCHEDULED FOR MONTH	500	60	231	625	231
2. PRODUCED DURING MONTH	6	0	38	125	231
3. P R CAN INVENTORY	28	8	3	231	231
4. R C CAN INVENTORY	4	9	0	231	231

PUREX

Processing continues at 22 T/D.

REDOX

The processing of building flushes is continuing.

UO₂

Six calciners are operating satisfactorily.

234-S

Hood 9-A was down for about 8 hours for the replacement of a vacuum line trap in the exhaust stack. During the shutdown period, the recycle pump in Hood 7-A failed and was repaired. Operation since then has been normal.

see J. 100

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HW. 05333

CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT						DATE	12-4-58	
						PAGE	45	
	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	26	0	49	176	8			
3. P R CAN INVENTORY	24	8	0					
4. R C CAN INVENTORY	5	9	0					

PUREX
Extraction battery operation is normal at 22 T/D; out of specification Pu due to high gamma activity is being recycled.

REDOX
The processing of Building flushes is continuing.

UO₂
Six calciners are operating satisfactorily.

234-S
Hood 9-A was down for a short period to permit replacement of the filter drum cloth.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 12-7-50

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	90	0	54	216	8			
3. P R CAN INVENTORY	22	8	18					
4. R C CAN INVENTORY	5	9	0					

PUREX

Processing continues at 22 T/D. Although the gamma ratio on K-6 climbed to 5.4, decontamination has improved during the past 32 hours and the GR is currently down to 3.9. Pu product remains within specs.

REDOX

The processing of building flushes prior to processing E Metal continued and are nearing completion.

UO₂

Six calciners are operating satisfactorily.

234-B

Hood 9-A operation was curtailed by difficulties experienced in the vacuum system.

212

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CHEMICAL PROCESSING DEPARTMENT
 DAILY PRODUCTION REPORT

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DATE 12-8-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	5:0	60	231	625				
2. PRODUCED DURING MONTH	112	0	61	252	12			
3. P R CAN INVENTORY	33	13	16					
4. R C CAN INVENTORY	5	9	0					

PUREX

Processing continues at 22 T/D. Difficulty with the XAF pump required processing the plutonium in L-cell for approximately 5 hours and recycling back to E-6. Although Uranium gamma ratios are slowly improving, the latest K-6 had a gamma ratio of 2.43, silica gel treatment is still required. The silica gel facility is now down for regeneration.

REDOX

The processing of E metal was started through precycle at 10:55 PM, 12-8-58.

UO₂

Six calciners are operating satisfactorily.

234-B

Hood 9-A was down shortly after weekend startup for replacement of the calciner B-valve.

L.S.W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 12-7-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	140	0	75	292	16			
3. P R CAN INVENTORY	26	17	9					
4. R C CAN INVENTORY	5	9	0					

PUREX

Processing continues at 22 T/D. The Uranium product gamma ratios continue to improve, the latest being GR 2.04. Plutonium product is within specifications and waste losses are normal.

REDOX

Processing rate was reduced from 5 T/D to 4 T/D at 5:45 PM, 12-7-58, due to low feed inventory and slow head-end time cycle.

UO₂

Six calciners are operating satisfactorily.

234-S

Hood 9-A was down for a short period for minor maintenance, including minor repairs to the calciner B-valve.

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HW. 58936-*Del*

CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT							
	A	B	C	D	E	F	G
	PUREX	REDOX	234-B	UC ₂	RECUPLEX		H
1. SCHEDULED FOR MONTH	500	60	231	625			
2. PRODUCED DURING MONTH	162	3	89	292	21		
3. P R CAN INVENTORY	35	17	0				
4. R C CAN INVENTORY	9	10	0				

PUREX
Processing continues at 22 T/D. Both Uranium and Plutonium products are within specifications. Since regeneration of the silica gel, processing of the "out of specification" UNH has been well below 2.0 gamma ratio.

REDOX
Processing rate was increased from 4 T/D to 5 T/D at 10:00 PM, 12-10-58.

UC₂
Processing was discontinued at 10:35 AM, 12-10-58, due to lack of loading containers. Since empty containers are not expected before Saturday, 12-13-58, the remainder of the week will be spent in flushing the feed tanks.

234-B
Hood 9-A operated satisfactorily except for a short down period due to minor maintenance.

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HW. 58933-Deh

CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 12-11-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	183	6	103	292	24			
3. P R CAN INVENTORY	31	16	2					
4. R C CAN INVENTORY	9	10	0					

PUREX 44 3 0
Processing continues at 22 T/D.

REDOX

Processing rate was increased from 5 T/D to 6 T/D at 9:45 PM, 12-11-58.

UO₂

Flushing of the feed tanks and building maintenance is underway.

234-B

Hood 9-A operated satisfactorily except for a short down period due to minor maintenance.

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HW. 58933-De l

CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-14-58
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625	X			
2. PRODUCED DURING MONTH	247	13	131	308	336			
3. P R CAN INVENTORY	5	17	13	X	X			
4. R C CAN INVENTORY	9	10	0	X	X			

PUREX

Processing continues at 22 T/D.

REDOX

Extraction was discontinued at 9:45 PM, 12-12-58; however dissolver operation and head-end batch make-up continued over the week-end.

UO₂

Six calciners are operating satisfactorily.

234-B

Hood 9-A operated satisfactorily except for a short down period due to minor maintenance. Tasks I, II, and III worked on an overtime basis on 12-13-58.

NRC J. L. W.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-15-58

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	A	B	C	D	E
	PUREX	REDOX	234-U	235-U	RECUPLEX
1. SCHEDULED FOR MONTH	500	60	231	625	
2. PRODUCED DURING MONTH	268	19	114	311	236
3. P R CAN INVENTORY	8	14	4		
4. R C CAN INVENTORY	9	10	0		

PUREX 71 3 30

Processing continues at 22 T/D.

REDOX

Operation was resumed at 2:45 AM, 12-16-58, at a rate of 5 T/D.

234-U

Six calciners are operating satisfactorily.

234-U

Hood 9-A was down shortly after weekend startup for repairs to the calciner B-valve, conveyor interlock, and the calciner inlet temperature element. Operation since 9:00 AM, 12-15-58, has been normal.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 12-16-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	234-UD ₂ U	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625	X			
2. PRODUCED DURING MONTH	289	25	156	38	12			
3. P R CAN INVENTORY	5	20	0	X	X			
4. R C CAN INVENTORY	10	10	0	X	X			

PUREX

Processing continues at 22 T/D.

REDOX

Processing continues at 5 T/D.

UD₂

Six calciners are operating satisfactorily.

234-B

Hood 9-A operated satisfactorily. Two fiber cloth hold down strips have loosened and are scheduled to be replaced 12-17-58.

A general area contamination spread occurred in the vicinity of Task V during the replacement of two lucite storage cabinets with a stainless steel storage panel. All areas were promptly cleaned.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-17-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	235-UO ₂	RECUPLER			
1. SCHEDULED FOR MONTH	500	60	231	625	☒			
2. PRODUCED DURING MONTH	310	28	160	126	☒			
3. P R CAN INVENTORY	8	21	0	☒	☒			
4. R C CAN INVENTORY	9	10	0	☒	☒			

PUREX

Processing continues at 22 T/D.

REDOX

Processing continues at 5 T/D.

UO₂

Six calciners are operating satisfactorily.

234-B

Hood 9-A Was shut down at 0635 on 12-17 for replacement of filter cloth, cleaning condensor drain line and other minor maintenance. Start-up was delayed pending complete inspection and cleanup of the 26" vacuum system.

A contamination spread occurred in the Zone III area of Task III, and IV, following a hood glove rupture by a craftsman during routine maintenance on Task IV furnace elements. No personnel contamination resulted and decontamination of the area has been initiated.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 12-18-58

PAGE 55

	A PUREX	B REDOX	C 134-B	D 134-6	E RECOPLER	F	G	H
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	339	31	160	466				
3. P R CAN INVENTORY	12	17	9					
4. R C CAN INVENTORY	8	10	1					

PUREX

Processing continues at 22 T/D.

REDOX

The columns were shut down at 2:15 AM to increase head-end inventory.

134-B

Six calciners are operating satisfactorily.

134-B

Hood 9A remains shut down while inspection and repairs to the building vacuum system are accomplished.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-21-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	134-B	134-UD	RECUPLEX			
SCHEDULED FOR MONTH	500	60	231	625	X			
PRODUCED DURING MONTH	402	31	160	516	12			
P R CAN INVENTORY	28	20	13	X				
R C CAN INVENTORY	7	10	1	X				

PUREX

Processing continued at 22 T/D. The palm inventory in the 1st cycle feed tank in the co-decontamination section dropped over the week-end. However, there is no indication of a loss of palms from the process. Minor process changes were made to favor the retention of palms.

REDOX

The process remained down over the week-end.

UD, Six calciners operated satisfactorily Friday; the process was shut down over the week-end.

134-B The building vacuum inspection was completed and Hood 9A is scheduled to start up on 12-22-58.

A contamination spread occurred in room 221 at 8 AM on 12-21-58. The origin is thought to be the steam line to the final concentrator in the Recuplex process. Decontamination is in progress but has not yet reached the origin.

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HW. 50333-122

CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-22-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	2-UD ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	424	35	171	571	42			
3. P R CAN INVENTORY	15	3	18					
4. R C CAN INVENTORY	18	10	1					

PUREX

Processing continued at a rate of 22 T/D.

REDOX

The process started up at a rate of 8 T/D.

UD₂

Six calciners were started up and are operating satisfactorily.

234-B

Hood 9-A was started up at 7 AM on 12-22; the delay was caused by poor fluorinator vacuum. The off-gas jet was replaced, correcting the situation.

Decontamination of the recent contamination spread in Room 221 is continuing.

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DATE 12-23-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	7625	XXXX			
2. PRODUCED DURING MONTH	445	41	188	7637	46.1			
3. P R CAN INVENTORY	15	3	10	XXXX	XXXX			
4. R C CAN INVENTORY	17	10	3	XXXX	XXXX			

PUREX

Processing continued at a rate of 22 T/D. H-2 column palm losses show an increase; therefore further process changes were effected to decrease palm losses.

REDOX

Processing continues at a rate of 7 T/D.

UO₂

Six calciners are operating satisfactorily.

UO₂ going down 7 AM

level 634.15. (P)

234-S

Hood 9A operations have been normal and without incident.

Decontamination of the recent contamination spread in Room 221 is continuing.

APC [Signature]

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT						HW.	DATE	PAGE
	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625	X			
2. PRODUCED DURING MONTH	494	48	195	637	16			
3. P R CAN INVENTORY	9	3	16	X	X			
4. R C CAN INVENTORY	13	10	11	X	X			

PUREX

Uranium saturation in the organic phase in the H-2 column was decreased to reduce the palm losses. As a result decontamination efficiency suffered, and final uranium gamma ratios are on the rise.

Processing rate continues at 22 T/D.

REDOX

Processing continued normally at 7 T/D until the Christmas shutdown.

UO₂

All units were shut down at 9 AM on 12-24-58 for the Christmas holiday and to start preparations for the work necessary for the E-metal tie-in next week.

234-B

Processing operations were normal, and decontamination of the recent spread in Room 221 is continuing.

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HW. 58933-Dee

CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 12-28-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	234-UD	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	623				
2. PRODUCED DURING MONTH	557	48	208	637				
3. P R CAN INVENTORY	20	3	12					
4. R C CAN INVENTORY	14	10	3					

PUREX

Processing continues normally at a rate of 22 T/D.

Run out of feed about 12-30-58. as per Cool Ring, relieving Swales.

REDOX

The process remained shut-down over the week-end.

UD,

Minor repair items are being accomplished on the G and H Calciners and the X-19 tank is being flushed.

234-B

Hood 9-A operations were normal; decontamination of the recent contamination spread in Room 221 is continuing.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 12-29-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-B	WUO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625	X			
2. PRODUCED DURING MONTH	571	51	218	637	116			
3. P R CAN INVENTORY	32	3	0	X				
4. R C CAN INVENTORY	11	10	12	X				

PUREX

Processing continued at 22 T/D until 1:40 AM, 12-30-58, when cold feed was started to the HA column in preparation for the Palm run.

REDOX

The process started up at a rate of 7 T/D at 2:30 AM, 12-29-58.

WUO₂

Minor repairs and maintenance on M calciner are underway. Preparations for processing E-Metal are continuing.

234-B

Hood 9-A startup was delayed by frozen HP control valves; however, operations since then have been satisfactory.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT						DATE 12-30-58	PAGE 62
	A PUREX	B REDOR	C 234-B	D UO ₂	E RECUPER	F	H
1. SCHEDULED FOR MONTH	500	60	231	625			
2. PRODUCED DURING MONTH	580	58	225	637	1.8		
3. P R CAN INVENTORY	21	5	4				
4. R C CAN INVENTORY	3	10	16				

PUREX
Continuing with scheduled shutdown in preparation for Palm run. The F-11 left hand tube bundle has a leak.

REDOR
Processing continues at 7 T/D. The C-2 dissolver was taken out of service due to a leaking pot coil; replacement with a reclaimed unit is scheduled during January.

UO₂
Equipment repairs and maintenance continues.

234-B
Hood 9-A was down part of the day for replacement of the fluorinator heating elements. Subsequent operation has been satisfactory.

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CHEMICAL PROCESSING DEPARTMENT						DATE	1-1-59	
DAILY PRODUCTION REPORT						PAGE	63	
	A	B	C	D	E	F	G	H
	PUREX	REDOX	2M-S	4-UC ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	500	60	231	625				
2. PRODUCED DURING MONTH	596	68	231	637	48			
3. P R CAN INVENTORY	23	5	4					
4. R C CAN INVENTORY	10	10	16					

PUREX Production compared to the Official Forecasts:

	December, 1958	4th Qtr. CY 1958	CY 1958
Pu	125	107	107
U	132	109	110

January 1: Start-up of Palm run is in progress. The/Acid Concentrator tube bundle was replaced. leaking

REDOX Production compared to the Official Forecasts:

	December, 1958	4th Qtr. CY 1958	CY 1958
Pu	3	80	94
U	113	100 Normal	93 Normal
		57 E	57 E

January 1: Extraction was discontinued at 3:20 PM, 12-31-58, for the holiday. Dissolver operation and head-end feed make-up are now underway.

UC₃ Production compared to the Official Forecasts:

	December, 1958	4th Qtr. CY 1958	CY 1958
UC ₃	105	101	101

January 1: Equipment repairs and maintenance continues.

January 1: Hood 9-A was shutdown for minor maintenance and the holiday. Subsequent operation has been satisfactory.

see J.W.

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