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SE Hydeseu 12/4/91

Dr. G. B. 12/9/91

J. Wells 12/11/91

CHEMICAL PROCESSING DEPARTMENT

DAILY PRODUCTION REPORT

For the Period January 1, 1958 Through March 31, 1958

JAN 21 1992

By

H. F. Tew

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 1-1-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	472	130	400	650				
2. PRODUCED DURING MONTH	0	0	23	30	0			
3. P R CAN INVENTORY	36	6	0					
4. R C CAN INVENTORY	29	7	5					

PUREX

Maintenance and jumper replacement is under way in L and J cells.

REDOX

Equipment flushing is continuing.

UO₂

Four calciners are operating at 27.5 T/D. Excessive temperatures and high power requirements necessitated the shutdown of the H calciner at 11:00 AM on 1-1-58. Preliminary inspection revealed damaged agitator blades. The unit is cooling.

234-S

Some difficulty has been experienced with the vacuum on the drum filter, which may indicate the need for replacement of the filter cloth.

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CHEMICAL PROCESSING DEPARTMENT
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	0	0	40	50	0			
3. P R CAN INVENTORY	32	1	0					
4. R C CAN INVENTORY	27	7	5					

PUREX

4

Scheduled maintenance continues. Concentrator tube bundles are being tested.

REDOX

Building flushing and maintenance is continuing. The 233-S pipe gallery was found to be grossly contaminated. The source of the contamination is believed to be an electrical junction serving vessel thermohms.

UO₂

Three calciners are operating at 23 T/D. The M calciner was shut down at 11:30 AM on 1-2-58 due to a ruptured feed point and damaged agitator blades. The unit is being unloaded. Removal of the powder from the H calciner is under way.

234-S

The filter operation in Task I continues to be slow. The unit was down for 7 hours for maintenance in an attempt to improve filtering. The removal of the old Task II equipment continues.

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	17	0	47	111	0			
3. P R CAN INVENTORY	30	5	0					
4. R C CAN INVENTORY	31	7	5					

PUREX

Building maintenance was completed and the operation resumed at 2:00 PM on 1-4-57 at a rate of 19 T/D. The first batches of Pu were recycled, but the Pu product is now within specs. Uranium product is within specs.

REDOX

High rate of product recovery during the first flush has required additional flushing of the columns. Decontamination of the RR tunnel and the 233 Building is under way.

UO₃

Three calciners are operating at approximately 20 T/D. Work on the H and K calciners is continuing. Unloading of the M calciner is nearing completion. The J unit was down for 6 hours on 1-4-58 to remove plugs from the fume vent inlets.

234-S

The continuous equipment was shut down at 6:00 AM on 1-3-58 as scheduled. The drum filter cloth was replaced and repairs were completed to the calciner and B valve. The unit was started up on 1-5-58, but the calciner screw failed to operate. The shaft was damaged, and repairs are under way. Two operators received arm contamination of 1,000 d/m when a hood glove failed. One operator received 5,000 d/m contamination on his ear, a second employee received 500 d/m on his neck while decontaminating the Task III area. All men involved were readily cleaned and released.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	38	0	47	142	0			
3. P R CAN INVENTORY	33	8	14					
4. R C CAN INVENTORY	31	7	0					

PUREX

14

9

Operations normal at 19 T/D.

REDOX

Building maintenance is continuing. The latest shipment of material has been charged to the C-2 dissolver.

material

UO₃

Three calciners are operating at approximately 20 T/D. Maintenance and repair to the H, K, and M calciners continues.

234-S

The continuous equipment remains down as scheduled for the installation of a rotary valve on the fluorinator discharge.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	59	0	52	157	2			
3. P R CAN INVENTORY	36	8	15					
4. R C CAN INVENTORY	27	7	3					

PUREX

Operations normal at 20 T/D.

REDOX

Decontamination of the canyon crane is under way.

UO₂

Three calciners remain in operation; however, one of the unit was out of service for 2 hours for replacement of motor brushes. Work continues on the three calciners undergoing repairs.

234-S

The installation of the new rotary valve on the fluorinator was completed and operation was resumed at 5:15 PM on 1-7-58.

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	80	0	68	173	16			
3. P R CAN INVENTORY	43	8	16					
4. R C CAN INVENTORY	30	7	0					

PUREX 31 9

Operations normal at 20 T/D.

REDOX

Building maintenance and crane decontamination continues.

UO₂

Three calciners remain in operation. The G calciner was shut down for 3 hours for replacement of the motor brushes. The cover of the H calciner is being replaced while the clearances of the new blades are being checked.

234-S

The continuous unit remains in operation.

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CHEMICAL PROCESSING DEPARTMENT
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	107	0	96	183	19			
3. P R CAN INVENTORY	25	8	14					
4. R C CAN INVENTORY	30	7	0					

PUREX 41 9

Operations normal at 21 t/d.

REDOX

Decontamination of the canyon crane is continuing.

UO₂

Two calciners are operating satisfactorily. The L calciner was shut down at 12:15 PM when the agitator began to strike two thermowells. The unit is cooling to permit inspection and repair of the damaged agitator blades. Work has been completed on the H calciner and the unit is being charged with powder.

234-S

Task I operation was normal

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	170	0	138	221.74	35			
3. P R CAN INVENTORY	12	8	14					
4. R C CAN INVENTORY	20	7	1					

PUREX

Operations normal at 21 T/D.

REDOX

Building maintenance continues. The H-2 centrifuge has been removed to the remote shop for repairs to the skimmers.

UO₂

Three calciners are operating satisfactorily. The K calciner is being reassembled while repairs to the L and M units continue. The H calciner was out of service for approximately 12 hours for adjustment of the powder weir.

234-S

The continuous unit operated satisfactorily over the week and with only minor adjustments and repairs being required. The unit was shut down at 12:00 noon on 1-11-58 because of lack of feed but resumed operation at 2:30 PM on 1-12-58. During the down period the hood was cleaned. Some difficulty was experienced with the calciner B valve.

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PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	466	130	390	650				
2. PRODUCED DURING MONTH	187	0	148	291	36			
3. P R CAN INVENTORY	27	8	4					
4. R C CAN INVENTORY	20	7	0					

PUREX 77 9

Operations normal at 20 T/D.

REDOX

Repair of the H-2 centrifuge hydraulic system is under way.

UO₂

Three calciners are operating satisfactorily. The cover of the K calciner has been replaced. Powder charging is awaiting the installation of feed points.

234-S

The continuous equipment was shut down at 4:00 AM when the calciner B valve failed. Repairs were completed and operation was resumed at 3:45 PM; however feed to the unit was off for 2 hours to permit the clearing of a plugged feed line.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	208	0	171	311	38			
3. P R CAN INVENTORY	10	8	6					
4. R C CAN INVENTORY	15	7	1					

PUREX

Processing continues at 20 T/D. The newly installed turbomixer in the organic recovery system was placed in service. Some column instability followed the start-up of the turbomixer, but column operation is showing improvement.

REDOX

A replacement H-2 centrifuge was installed in the head end. Jumper installation is in progress. Repair of the faulty centrifuge is continuing in the remote shop.

UO₃

Three calciners operated satisfactorily. Work on the hot box of the X calciner is nearing completion, after which the unit will be charged with powder. The X-30 feed filter was removed from service for cleaning. There was no interruption of feed to the calciners.

234-S

The continuous unit was out of service for approximately 4 hours to permit repairs to the calciner B valve.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 1-15-58

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	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	229	0	174	316	40			
3. P R CAN INVENTORY	21 *	8	3					
4. R C CAN INVENTORY	7	7	0					

PUREX 45 9

The processing rate was raised slightly to 21 T/D. The increase in rate has caused slight flooding in the 1-C column in the uranium cycle.

REDOX

The installation of the H-2 centrifuge was completed. The processing of rework material has been started.

UO₂

Three calciners are operating satisfactorily. The loading of the containers was delayed to permit the replacement of a rotary valve in the load-out hopper.

234-S

The Task I unit was shut down at 4:00 AM on 1-15-58 because of lack of feed.

* 3 MR
6 High G/Kt Purex runs

1/12

J. SW.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 1-16-58
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	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	250	0	187	327	46			
3. P R CAN INVENTORY	22	8	5					
4. R C CAN INVENTORY	21	7	8					

PUREX 103 9

Operations normal at 21 T/D.

REDOX

The processing of rework material is continuing.

UO₂

Three calciners are operating satisfactorily. Work on the K calciner was completed and the unit was charged. It is now heating in preparation for start-up.

234-S

The operation of the Task I unit was resumed at 8:00 AM on 1-16-58. The unit was shut down for 1 1/2 hours for cleaning of the fluorinator off-gas filter and unplugging of the calciner B valve.

{ An operator recieved 15,000 d/m contamination on his arm while cleaning a process hood in Task I, which was caused by a torn hood glove. The contamination was readily cleaned. }

one J.L.W.

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WITNESS

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DATE 1-19-58

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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	468	130	390	650				
2. PRODUCED DURING MONTH	313	0	236	429	59			
3. P R CAN INVENTORY	12	7	5					
4. R C CAN INVENTORY	14	7	0					

PUREX

Operations normal at 21 T/D.

REDOX

The preliminary treatment of rework material is continuing.

UO₂

Four calciners are operating satisfactorily. Work on the K calciner was completed and the operation was resumed at 11:30 AM on 1-18-58. Some difficulty was experienced with plugging of the hammer mill screen over the week end.

234-S

The continuous unit operated satisfactorily over the week end. Several hours downtime were required for minor repairs and adjustments. Recycle has been low. The unit was shut down at 7:15 AM on 1-19-58 when the feed supply became depleted. Cleaning of the Task III area has continued during downtimes and when personnel are available.

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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	468	130	390	650				
2. PRODUCED DURING MONTH	335	0	244	444	59			
3. P R CAN INVENTORY	10	7	6					
4. R C CAN INVENTORY	12	7	1					

PUREX

145

9

Operations normal at 21 T/D.

REDOX

Rework material is being processed in the head end.
The extraction columns are scheduled to begin operation during day shift on 1-21-58. Approximately 24 hours will be required to process the rework material through the columns, after which normal processing will be resumed.

UO₂

Three calciners remain in operation. The H calciner was shut down at 11:00 AM on 1-20-58 when the agitator began to strike feed points and thermowells. Inspection revealed two damaged agitator blades. The unit is now cooling. The G calciner was shut down at 3:00 PM on 1-20-58 when a feed point and thermowell were broken. Replacements were installed and the operation was resumed at 9:15 PM.

234-S

The continuous unit was down until 6:00 PM on 1-20-58 awaiting build-up of feed inventory. During the downtime the drum filter cloth was replaced. The removal of the furnaces from Task II was started. Two units have been taken out. Clean-up of Task III continues.

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CHEMICAL PROCESSING DEPARTMENT
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	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	468	130	390	650	X			
2. PRODUCED DURING MONTH	356	0	260	469	59			
3. P R CAN INVENTORY	10	7	6	X				
4. R C CAN INVENTORY	14	7	3	X				

PUREX

Operations normal at 21 T/D.

REDOX

Operation of the extraction columns was resumed at 10:00 PM on 1-21-58 with the initial feed being rework material.

UO₂

Three calciners are operating satisfactorily. Work on the L calciner was completed, powder was charged, and the unit is heating for start-up. The X-25 hammer mill was found to be partially plugged and was therefore cleaned. The H calciner has been unloaded in preparation for the installation of heavier agitator blades.

234-S

Some difficulty was experienced with the calciner B valve. The mixer in Task III failed and was replaced with a new unit.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 1-22-58

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	A	B	C	D	E	F	G	H
	PUREX	REDON	134-9	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650	~~X~~			
2. PRODUCED DURING MONTH	377	0	271	490	61			
3. P R CAN INVENTORY	8	7	6	~~X~~	~~X~~			
4. P C CAN INVENTORY	14	7	6	~~X~~	~~X~~			

PUREX

Operations normal at 21 T/D.

REDON

The processing of rework through the extraction columns is continuing.

UO₂

Work on the L calciner was completed and operation was resumed at 9:00 PM on 1-22-58. Four calciners are now operating satisfactorily. Filter bags were replaced and repairs made to the X-29 filter system.

134-9

The continuous equipment operated satisfactorily through the day shift and was at the end of the day shift because of lack of feed. Work has started on the replacement of the calciner outlet banjo valve. Repairs are also planned on the drum filter equipment. The removal of furnaces from the old Task II is continuing.

The continuous unit was scheduled down at this time to complete repairs which are expected to improve the operation and reliability of the equipment. The work is expected to be completed late on Friday, 1-24-58.

J.S.W. *AW*

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CHEMICAL PROCESSING DEPARTMENT
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	A	B	C	D	E	F	G	H
	PUREX	REDOR	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	398	0	271	515	61			
3. P R CAN INVENTORY	23	7	2					
4. R C CAN INVENTORY	14	7	10					

PUREX.

Operations normal at 22 T/D. Hot feed was started to the ion exchange Pu concentration unit. Only a portion of the 2BP stream is being diverted through this facility.

REDOR

The processing of virgin feed was started in the head end at 2:50 pm on 1-23-58. The processing rate is 6 T/D.

UO₂

Four calciners remain in operation. The J calciner was down for several hours to permit clearing of the feed points and the feed rotameters. The installation of new agitator blades in the H calciner is continuing.

234-S

Hood 9-B was down as scheduled for replacement of the calciner outlet banjo valve. The last two old furnaces were removed from Task II.

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**CHEMICAL PROCESSING DEPARTMENT
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	A	B	C	D	E	F	G	H
	PUREX	REDOR	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	469	6	321	576	79			
3. P R CAN INVENTORY	15	0	3					
4. R C CAN INVENTORY	13	6	0					

PUREX

Operations normal at 21 T/D. The operation of the ion exchange Pu concentration equipment has been very good.

REDOR

Operation was somewhat erratic over the week end with two process shutdowns required to clear plugged lines. Operation has been satisfactory since 3:30 PM on 1-26-58 at a rate of 10 T/D. Initial batches of Pu were high in G/A and are awaiting rework. High gamma UNH is awaiting silica gel treatment.

UO₂

Four calciners are operating satisfactorily. Repairs to the H calciner have been completed and the unit is ready for service when required.

234-S

Operation of the continuous unit was resumed on 1-25-58 and since that time has been satisfactory. Start-up was delayed slightly due to the need for replacement of the failed reactor agitator motor.

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	490	13	336	607	79			
3. P R CAN INVENTORY	7	0	0					
4. R C CAN INVENTORY	14	1	0					

PUREX 184 9

Operations normal at 21 T/D.

REDOX

Processing continues at 10 T/D.

UO₂

Five calciners are operating satisfactorily. The H unit resumed operation at 2:00 PM on 1-27-58.

234-S

The continuous unit was down for nine hours for minor maintenance and to permit painting in Task III.

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	511	26	344	633	87			
3. P R CAN INVENTORY	13	9*	3					
4. R 2 CAN INVENTORY	16	1	0					

PUREX

Operations normal at 21 T/D.

REDOX

Processing continues at 10 T/D. UNH gamma ratios remain high. Silica gel treatment of UNH is required.

UO₂

Five calciners are operating satisfactorily. Installation of heavier agitator blades on the M calciner is continuing.

234-S

The continuous Task I unit was down for 15 hours due to lack of feed.

* PR cans shown in Redox contain material to be recycled.

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CHEMICAL PROCESSING DEPARTMENT
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-5	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	532	36	353	674	91			
3. P R CAN INVENTORY	18	0	4					
4. R C CAN INVENTORY	16	0	1					

PUREX

224

9

Operations normal at 21 T/D.

REDOX

Processing continues at 10 T/D with UNH requiring treatment through the silica gel facility.

UO₂

Five calciners are operating satisfactorily. The G calciner was down for two hours to permit replacement of a damaged feed point. Agitator blades have been installed on the M calciner and the cover is being replaced.

234-5

The continuous unit was down for 6 hours to repair the calciner outlet banjo valve. A delay of an additional 5 hours was caused by lack of feed.

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CHEMICAL PROCESSING DEPARTMENT
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	553	46	356	710	91			
3. P R CAN INVENTORY	14	9	7					
4. R C CAN INVENTORY	16	1	0					

PUREX 241

Operations normal at 21 T/D.

REDOX

Operations normal at 10 T/D.

UO₃

Five calciners are operating satisfactorily. Work on the M calciner has been completed and the unit is ready to be placed in service. Preparations are under way to shut down the calciners to permit repairing steam leaks throughout the building. The operation is expected to be down less than 24 hours.
As of midnight, 1-30-58, there was one empty UO₃ container on the Project.

234-S

The Task I unit was down for 10 hours due to mechanical troubles and plugging of the off-gas filter.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 1-31-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	468	130	390	650				
2. PRODUCED DURING MONTH	566	55	370	612	91			
3. P R CAN INVENTORY	21	3	9					
4. R C CAN INVENTORY	19	1	0					

PUREX 151

January production of Pu and U was 128% and 135%, respectively, of the Official Forecast.
Operations normal at 21 T/D.

REDOX

January production of Pu and U was 33 % and 43 %, respectively, of the Official Forecast.

Operations normal at 10 T/D.

UO₃

January production of UO₃ was 94 % of the Official Forecast.

Three calciners resumed operation on 1-31-58 after a 16 hour shutdown to permit the repair of steam leaks and other minor maintenance.

234-S

The Task I unit was shut down for replacement of the fluorinator column.
Inspection revealed that the liner of the column has failed.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	57	29	39	164	8			
3. P R CAN INVENTORY	25	18	9					
4. R C CAN INVENTORY	31	0	0					

PUREX

Operations normal at 21 T/D.

REDOX

Operations normal at 10 T/D. E metal has been charged into the C dissolver for test dissolving.

UO₂

Four calciners are operating satisfactorily. The G calciner was out of service for 8 hours to clear plugged feed points. The J calciner was shut down at 5:50 PM for major feed system and agitator modifications.

234-S

Task I operation was satisfactory.

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DATE 2-4-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	78	35	68	190	13			
3. P R CAN INVENTORY	27	9	13					
4. R C CAN INVENTORY	35	7	0					

PUREX 49 24

Operations normal at 21 T/D.

REDOX

Operations normal at 10 T/D.

UO₂

Three calciners are operating satisfactorily. The G calciner was shut down at 3:00 AM to clear plugged feed points and lines. Both the G and the M calciners are being held in standby condition awaiting shipping containers. The J unit has been unloaded to permit modification of the agitator blades.

234-S

The Task I operated satisfactorily throughout the day.

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DATE 2-5-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-3	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	100	45	83	190	13			
3. P R CAN INVENTORY	36	0	6					
4. R C CAN INVENTORY	27	1	15					

PUREX 58 24

Operations normal at 21 T/D.

REDOX

Operations normal at 10 T/D.

UO₂

Three calciners remain in operation; however, no powder was loaded due to the shortage of shipping containers. Two calciners are standing by until containers become available.

234-3

Task I was scheduled down for approximately 10 hours for replacement of the filter cloth on the drum filter and other minor repairs.

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W.K. *W.R. Chapman*

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DATE 2-6-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOR	234-3	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	122	56	109	195	13			
3. P R CAN INVENTORY	31	0	6					
4. R C CAN INVENTORY	34	8	4					

PUREX 48 30

Operations normal at 21 T/D.

REDOR

Operations normal at 10 T/D.

UO₂

Three calciners remain in operation while two units continue to be held in stand-by. One carload of shipping containers was received late in the day. Loading of containers was started on the swing shift.

234-3

Task I operation was continuous during the day.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT..

DATE 2-9-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-3	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	186	72	164	297	16			
3. P R CAN INVENTORY	26	0	1					
4. R C CAN INVENTORY	27	5	6					

PUREX

Operations normal at 21 T/D.

REDOX

The operation was shut down at 8:15 AM on 2-7-58 when the H-2 centrifuge failed. Equipment flushing has been completed in preparation for the replacement of the centrifuge.

UO₂

Two calciners remain in operation. The K unit was shut down at 9:35 PM on 2-9-58 for replacement of two thermowells. All available shipping containers were filled on 2-9-58. A new shipment is expected in on 2-10-58.

234-3

The Task I unit was down for approximately 11 hours on 2-8-58 for repair of the fluorinator. Low feed inventory required that the operation be shut down at 4:15 PM on 2-9-58.

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DATE 2-10-58

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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	550	130	400	700				
2. PRODUCED DURING MONTH	208	72	169	302	19			
3. P R CAN INVENTORY	30	0	6					
4. R C CAN INVENTORY	25	5	6					

PUREX 107 41

Operations normal at 21 T/D. Operation of the ion exchange Pu concentration equipment has been resumed. Approximately one-third of the Pu production is being processed through the ion exchange unit.

REDOX

The building remains down while preparations continue to replace the failed H-2 centrifuge.

UO₂

Four calciners are operating satisfactorily. Two additional calciners were placed on the line after two carloads of shipping containers had been received.

234-S

The Task I unit operated for approximately 7 hours, during which time the backlog of feed was processed. The calciner B valve was repaired during the down time and the off-gas line is being replaced.

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DATE 2-11-58

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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	550	130	400	700	☒			
2. PRODUCED DURING MONTH	229	72	180	338	19			
3. P R CAN INVENTORY	30	5	7	☒				
4. R C CAN INVENTORY	25	5	0	☒				

PUREX

114

111

Operations normal at 21 T/D.

REDOX

The replacement of the failed H-2 centrifuge is under way.

UO₂

Four calciners are operating satisfactorily. The re-milling of two containers of out-of-specs powder was completed.

234-S

The Task I unit operated satisfactorily until 3:00 PM when it was shut down for a check of radiation conditions. Poor vacuum on the fluorinator was encountered when an attempt was made to resume operation at 7:15 PM. The off-gas system is undergoing a check.

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DATE 2-12-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₃	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700	☒			
2. PRODUCED DURING MONTH	251	72	193	359	19			
3. P R CAN INVENTORY	32	0	5	☒				
4. R C CAN INVENTORY	22	5	2	☒				

PUREX

Processing continues at 21 T/D. At 2:30 AM on 2-13-58 a noise occurred in A dissolver cell which was apparently caused by a break in the steam heater shell for dissolver off-gas. The cell has not as yet been opened, but instrumentation indicates a break in the steam system. There was no spread of contamination, and the instruments indicate no further damage. The cell will be opened for inspection early on 2-13-58.

REDOX

The installation of the replacement H-2 centrifuge has been completed and head end processing has started in preparation for start-up of the extraction columns.

UO₃

Four calciners are operating satisfactorily. One calciner is available for operation but is being held in reserve. Replacement of agitator blades and feed piping in the J calciner is continuing. The prototype calciner is being unloaded in preparation for dismantling of this equipment.

234-S

Repairs to Task I were completed and the operation resumed at 7:15 AM on 2-12-58. The unit was down for 1 hour during the latter part of the day to permit the replacement of a section of tubing to the off-gas jet.

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DATE 2-13-58

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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	550	130	400	700				
2. PRODUCED DURING MONTH	264	72	200	384	19			
3. P R CAN INVENTORY	35	0	3					
4. R C CAN INVENTORY	25	6	0					

PUREX

Operations normal at 21 T/D. The Ion exchange Pu concentration equipment is now processing 50% of the Pu product.

An inspection of the A dissolver cell indicates that an explosion took place at or near the silver reactor. There is a black deposit throughout the cell and the piping in the vicinity of the silver reactor and off-gas heater has been damaged. There may also be some damage to the reactor and heater.

REDOX

During the shutdown it was found that the H-4 oxidizer had developed a leak in a tube bundle. The agitator in the H-7 metal solution blending tank failed. Repair and replacement of these units is planned during the scheduled shutdown toward the end of February.

UO₂

Four calciners are operating satisfactorily. Erratic operation of the hammer mill has required the remilling of some material.

234-3

Task I operation continues; however considerable difficulty has been experienced with low vacuum on the fluorinator. The installation of a new jet failed to correct the trouble.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT						DATE 2-16-58	PAGE 35	
	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700	☒			
2. PRODUCED DURING MONTH	327	87	239	482	34			
3. P R CAN INVENTORY	18	0	9	☒				
4. P R CAN INVENTORY	0	1	0	☒				

PURE: 147 41

Operations normal at 20 T/D.

REDOX

Operation of the extraction columns was resumed at 11:10 AM on 2-14-58 at a rate of 10 T/D. The processing rate was reduced to 6 T/D at 1:30 AM on 2-16-58 when the processing of rework material was completed. The leaking H-L tube bundle necessitated a reduction in rate.

UO₂

Four calciners are operating satisfactorily. Operation over the week end was normal. Unloading of the prototype calciner has been completed.

234-S

Some difficulty was experienced with poor vacuum on the fluorinator. The trouble was finally traced to corrosion in the hydrofluorinator off-gas system. A ruptured plastic cover on Hood 10 caused a spread of contamination in the area behind Hood 9. No personnel were involved and there has been no interference with the operation.

Z. R. Chapman *J. L. W.*

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DATE 2-17-58

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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	550	130	400	700				
2. PRODUCED DURING MONTH	341	96	261	513	39			
3. P R CAN INVENTORY	14	5	1					
4. R C CAN INVENTORY	29	1	0					

PUREX 160 50

Operations normal at 20 T/D.

REDOX

Processing continues at 6 T/D.

UO₂

Four calciners remain in operation. The G calciner is being unloaded to permit the installation of heavier agitator blades. Some difficulty was experienced with erratic flow rates to the L and K calciners.

234-S

The Task I unit has operated satisfactorily although some difficulty was encountered from corrosion of a fitting on the off-gas line from the fluorinator. The fitting, which has required frequent replacement, will be replaced with a Hastelloy piece, which is being fabricated. Hood 10 was removed from Task II to the burial ground without incident.

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Y PRODUCTION REPORT55603-Del
DATE 2-18-58
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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	550	150	400	700				
2. PRODUCED DURING MONTH	361	99	273	538	44			
3. P R CAN INVENTORY	17	0	7					
4. R C CAN INVENTORY	22	1	8					

PUREX

175

SV

Operations normal at 20 T/D. The removal of equipment from the A dissolver cell has started. All the Pu product is now being processed through the ion exchange concentration unit.

REDOX

The operation was shut down at 6:15 AM on 2-18-58 to permit replacement of the H-4 oxidizer tube bundle.

UO₃

Four calciners remain in operation. Somewhat erratic feed flow indicates the possibility of partially plugged feed filters. These units are scheduled for an inspection. Work on the J calciner has been completed and the unit is ready for charging.

234-S

The Task I unit was scheduled down for 13 hours to permit repairs and replacements in the HF system. The work was completed and operation resumed at 5:00 PM. Operation has been satisfactory.

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DATE 2-18-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	382	99	299	553	49			
3. P R CAN INVENTORY	7	0	7					
4. R C CAN INVENTORY	25	1	5					

PUREX

Operations normal at 20 T/D.

REDOX

Replacement of the leaking H-4 tube bundle was completed. Processing of dilute feed in the head end has been resumed.

UO₃

Four calciners remain in operation. Some difficulty was experienced with the rotar valve on the L calciner. All shipping containers have been filled and powder is being stored in the X-26 hopper.

234-S

The Task I unit operated satisfactorily for the full period.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 2-20-58

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	A PUREX	B REDOX	C 234-S	D UO ₃	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700	~~X~~			
2. PRODUCED DURING MONTH	403	99	315	579	54			
3. P R CAN INVENTORY	5	0	3	~~X~~				
4. R C CAN INVENTORY	26	1	0	~~X~~				

PUREX 45 54

Operations normal at 20 T/D.

REDOX

Processing in the head end continues.

UO₃

Two calciners remain in operation. The K and L calciners were removed from service as a result of the shortage of shipping containers. Work on the J calciner was completed and it is being held in reserve.

234-S

The Task I unit was down for approximately 7 hours due to lack of feed.

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DATE 2-23-58

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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	550	130	400	700				
2. PRODUCED DURING MONTH	466	111	324	604	58			
3. P R CAN INVENTORY	11	6	29					
4. R C CAN INVENTORY	30	0	2					

PUREX

The operation was shut down for three hours on 2-21-58 to permit replacement of the Precycle feed pump. Operation was resumed at 20 T/D.

REDOX

The operation was resumed at 6:45 PM on 2-21-58. At 8:00 AM on 2-22-58 the feed pump to the 1-A extraction column failed, which reduced the processing rate to 6 T/D. Current operating rate is 7 T/D.

UO₂

Two calciners remain in operation. The J calciner is heating in preparation for Start-up. The L calciner is being unloaded to permit modification of the feed points.

234-S

The operation was down for approximately 11 hours on 2-21-58 due to depleted feed inventory. During the down period the drum filter cloth was replaced and other minor adjustments and repairs were completed. The unit was down for the week end due to lack of feed.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 2-24-56

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	A PUREX	B REDOX	C 234-3	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	450	114	347	640	61			
3. P R CAN INVENTORY	24	0	7					
4. R C CAN INVENTORY	27	0	2					

PUREX

Operations normal at 20 T/D.

REDOX

Processing continues at 7 T/D. A replacement feed burner for the 1-A extraction column has been installed.

UO₂

Two calciners remain in operation. The start-up of the J calciner was delayed because of an inability to heat the feed lines by the steam trace piping. Scheduled maintenance is being performed on the three units which are out of service.

234-3

Start-up of the Task I unit was normal after the week end shutdown. Some trouble was experienced with erratic fluorinator vacuum, which was traced to a faulty fitting. Replacement of the fitting corrected the trouble.

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DATE 2-25-58

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700				
2. PRODUCED DURING MONTH	507	121	372	660	67			
3. P R CAN INVENTORY	18	0	0					
4. R C CAN INVENTORY	33	0	0					

PUREX

Operations normal at 20 T/D. A leaking assembly between the L-3 Pu stripper and the L-4 Pu concentrator was replaced.

REDOX

Operations normal at 7 T/D.

UO₂

Three calciners are operating satisfactorily. The J calciner was placed in service at 2:35 AM on 2-25-58. Repairs to the K calciner have been completed and the unit is being re-assembled.

234-S

Operation was continuous except for 45 minutes downtime for replacement of a filter element on the oxalic line.

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DATE 2-26-58

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 134-B	D UO ₂	E RFGUPLRX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700	~~X~~			
2. PRODUCED DURING MONTH	521	128	395	685	67			
3. P R CAN INVENTORY	11	0	0	~~X~~				
4. R C CAN INVENTORY	39	0	0	~~X~~				

PUREX

Operations normal at 20 T/D. The damaged silver reactor from the A dissolver was removed to the burial ground without incident.

REDOX

The operation was shut down at 12:45 AM on 2-26-58 beginning the scheduled plant outage for the month. A shipment of waste material from Aronne has been received for processing.

UO₂

Three calciners remain in operation. Re-assembly of the K calciner is continuing. Work is continuing on the G unit while the L calciner is being unloaded.

134-B

The Task I unit was down for approximately 2 hours to clear a plugged line from the drum filter pan. Operation has otherwise been normal.

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DATE 2-27-58

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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	550	130	400	700				
2. PRODUCED DURING MONTH	541	131	410	710	69			
3. P R CAN INVENTORY	5	7	0					
4. P C CAN INVENTORY	23	0	16					

PUREX

Operations normal at 20 T/D.

REDOX

Equipment flushing is under way.

UO₂

Three calciners are operating satisfactorily. Work on the K calciner has been completed and the unit is being charged with powder. Work on the G and L calciners is continuing.

234-S

The Task I equipment operated satisfactorily. Lack of feed shut the unit down for three hours at 7:45 AM. and again at 7:00 PM.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 2-28-58

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	A PUREX	B REDOX	C 234-5	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	550	130	400	700	X			
2. PRODUCED DURING MONTH	562	131	417	726 *	69			
3. P R CAN INVENTORY	11	12	22	X				
4. H C CAN INVENTORY	30	0	0	X				

PUREX

February production of Pu and U was 127% and 122%, respectively, of the Official Forecast.

Operations normal at 20 T/D.

February production of Pu in the separations plants establishes a new record high.

REDOX

February production of Pu and U was 112% and 101%, respectively, of the Official Forecast.

Equipment flushing is continuing.

UO₂

February production of UO₂ was 123% of the Official Forecast.

*This figure reflects the amount loaded into containers and available for acceptance. The amount of material approved for shipment was 614 tons.

With the completion of the February schedule, the operating calciners were shut down. Operating personnel were loaned to 234-5 for clean-up work.

234-5

February production of Buttons was 14% of the Official Forecast.

The Task I equipment operated satisfactorily while feed was available.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 3-2-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	100		700	☒			
2. PRODUCED DURING MONTH	35	0	0	127*	☒			
3. P R CAN INVENTORY	11	12	22	☒	☒			
4. R C CAN INVENTORY	30	0	0	☒	☒			

PUREX

Operation normal at 20 T/D.

REDOX

Solvent cleaning of the crane is under way. There are indications that the solvent again caused displacement of iodine from the sand filter.

→ JHW: shd. we quit doing this?

UO₂

Three calciners resumed operation on 3-2-58 and are operating satisfactorily. The K unit has been charged with powder and is being held in reserve.

*Includes 112 tons loaded and available for shipment at the beginning of the month.

234-S

The Task I unit was out of service over the week end as scheduled.

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R. Maci Note

Steam cleaning with detergent solutions is being done at all spots where electrical equipment is not endangered in order to minimize the iodine displacement nuisance. Solvent is the only known effective cleaning agent suitable for use around electrical equipment such as motors & junction boxes. Grosz with would be very reluctant about eliminating use of solvent altogether.

WSD

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DATE 3-3-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	500	100	320	700				
2. PRODUCED DURING MONTH	49	0	22	137	2			
3. P R CAN INVENTORY	31	0	7					
4. R C CAN INVENTORY	22	0	12					

PUREX

Processing continues at 20 T/D. Failure of the Precycle feed pump necessitated that the Precycle be shut down for approximately 8 hours while replacement of the pump was made. The other portions of the building remained in operation during the replacement.

REDOX

Crane and canyon decontamination is continuing.

UO₃

Three calciners remain in operation. The weir adjusting rod of the M calciner broke. Adjustments are being made by controlling the operation of the discharge valve. The K calciner has started heating in preparation for start-up.

234-S

Task I operation was normal.

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J.N.W.

W.K.W.

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HW. 55603-*del*

DATE 3-4-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-3	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	500	100	320	700				
2. PRODUCED DURING MONTH	69	0	50	162	2			
3. P R CAN INVENTORY	22	0	0					
4. R C CAN INVENTORY	20	0	18					

PUREX

The operation was shut down at 3:00 AM on 3-⁵4-58 to repair the interface control jumper on the Pu cycle 2-A column. A leak in the jumper had gradually been growing worse.

REDOX

Canyon and crane decontamination continues.

UO₂

Four calciners are operating satisfactorily. The K calciner was placed on the line at 9:00 PM on 3-4-58.

234-3

Task I operation was normal.

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J.L.W. M.W.

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HW. 55603-*Del*

CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 3-5-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	2M-1	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	100	320	700	☒			
2. PRODUCED DURING MONTH	76	0	59	188	5			
3. P R CAN INVENTORY	25	0	0	☒				
4. R C CAN INVENTORY	21	0	20	☒				

PUREX

Repair of the faulty jumper on the Pu cycle extraction column was completed and the operation resumed at 6:40 PM on 2-5-58. Processing rate is 20 T/D.

REDOX

Canyon and crane decontamination is continuing.

UO₂

Four calciners remain in operation. Some difficulty has been experienced with low vacuum on the M calciner. Repairs and modifications are continuing on the G and the L units.

236-5

Task I operated satisfactorily for approximately 35% of the day - shortage of feed reduced the throughput.

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Q.W.

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DATE 3-6-58

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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	100	320	700				
2. PRODUCED DURING MONTH	97	0	59	214	5			
3. P R CAN INVENTORY	27	0	7					
4. R C CAN INVENTORY	21	0	19					

PUREX

Operations normal at 20 T/D.

REDOX

Equipment maintenance and decontamination is continuing.

UO₂

Four calciners are operating satisfactorily. Normal vacuum was restored to the M calciner by cleaning of the fume vent line. The H calciner was down for 3 hours to install new brushes in the motor.

234-S

Task I was down because of lack of feed.

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DATE 3-9-58

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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	100	320	700	~~X~~			
2. PRODUCED DURING MONTH	153	0	73	290	10			
3. P R CAN INVENTORY	25	0	22	~~X~~				
4. R C CAN INVENTORY	18	0	15	~~X~~				

PUREX

At 3:00 AM on 3-10-58 the scheduled shutdown of the plant began.

REDOX

The reworking of the out-of-specs UNH was completed. Equipment repairs and maintenance is continuing.

At 7:50 AM on 3-10-58 the operation was resumed at a rate of 8 T/D.

UO₂

Four calciners operated satisfactorily over the week end. Work on the L calciner was completed and the unit was charged and is ready for start-up.

234-S

Operation of the Task I unit was dependent upon the availability of feed. Only minor difficulties were encountered in the operation.

me J. SW.

[Signature]

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HW 55603-*Del*

DATE 3-10-58

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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	100	320	700	X			
2. PRODUCED DURING MONTH	160	0	54	116	16			
3. P R CAN INVENTORY	34	0	0	X				
4. R C CAN INVENTORY	25	0	15	X				

PUREX

Equipment flushing is proceeding.

REDOX

*omit 11
like
3-10-58
3-11-58*
The operation was shut down at 11:50 AM on 3-10-58 due to a plugged line from the 3DF concentrator to the 3rd U cycle feed tank. The line was cleared and the operation resumed at 2:30 AM on 3-11-58 at a rate of 8 T/D.

The 10 ton crane requires repair before the dissolvers can be charged.

UO₂

Four calciners are operating satisfactorily. The L calciner is ready for operation and standing by.

234-S
Minor difficulties were encountered in Task I operation involving a plugged off-gas filter and plugging of the calciner bang valve. The coil on Furnace 3 in Task III requires replacement, which has been scheduled for 3-11-58.

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 DATE 3-11-58
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AFTER FILL

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	100	320	700	X			
2. PRODUCED DURING MONTH	160	0	105	341	16			
3. P R CAN INVENTORY	25	0	13	X				
4. R C CAN INVENTORY	28	0	15	X				

PUREX 66

Flushing of the organic recovery system and the waste system equipment is continuing.

REDOX

Processing continues at 8 T/D.

The 10 ton crane hook requires replacement, which is planned after the electrical continuity of the 10 ton crane has been checked.

UO₂

The operation of four calciners was normal. The L unit remains in stand-by.

234-S

Repairs to Furnace 3 of Task III were completed and all furnaces are back in service. Operation of Task I is satisfactory.

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HW 55803-Dee

DATE 3-12-58

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	REGUPLEX			
1. SCHEDULED FOR MONTH	500	100	320	700				
2. PRODUCED DURING MONTH	160	6	109	372	19			
3. P R CAN INVENTORY	37	0	0					
4. R C CAN INVENTORY	33	0	15					

PUREX

Equipment flushing and maintenance is continuing.

REDOX

The processing rate was reduced to 6 T/D at 1:30 Pm on 3-12-58 due to low feed inventory in the head end. Charging has been delayed until the 10 tons crane is repaired and returned to service. Electrical work on the crane has been completed and the unit is ready for replacement of the hook and cable.

UO₂

Four calciners remain in operation. Low vacuum on the J calciner was corrected by cleaning of the fume vent line.

234-S

Task I operation was normal but limited by availability of feed.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 3-13-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	500	100	320	700				
2. PRODUCED DURING MONTH	160	12	110	393	19			
3. P R CAN INVENTORY	30	0	0					
4. R C CAN INVENTORY	34	0	15					

PUREX

Operation was resumed at 1:30 AM on 3-14-58 at a rate of 16 T/D.

REDOX

Processing continues at 6 T/D. Repairs to the 10 ton crane were completed and charging of the dissolvers was resumed.

UO₂

Low feed inventory required that two calciners be taken off the line. They are being held at operating temperature in stand-by. Two calciners remain in service.

234-S

Task I operation was normal as feed was available.

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AFTER FILL

HW. 55603-Deh

DATE 3-16-58

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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	100	320	700				
2. PRODUCED DURING MONTH	207	28	114	429	19			
3. P R CAN INVENTORY	23	5	19					
4. R C CAN INVENTORY	21	12	3					

PUREX

Operations normal at 16 T/D. Both the Pu and the U products are within specs.

REDOX

Operations normal at 6 T/D.

UO₂

Three calciners are operating satisfactorily. The J calciner was placed in service at 6:00 AM on 3-16-58. The L and M units remain in stand-by.

234-S

Task I was down during the latter part of the day on 3-14-58 due to a defective drive gear on the drum filter. A new gear was fabricated and installation is under way.

MR

J.W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 3-17-58

PAGE 57

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	500	100	320	700				
2. PRODUCED DURING MONTH	221	30	125	445	27			
3. P R CAN INVENTORY	44	5	0					
4. R C CAN INVENTORY	21	12	1					

PUREX

Operations normal at 18 T/D.

REDOX

Operations normal at 6 T/D.

UO₂

Four calciners are operating satisfactorily. The L calciner was returned to service at 8:00 PM on 3-17-58.

234-S

Some difficulty was experienced with the vacuum on the fluorinator. Replacement of the off-gas jet corrected the trouble.

Low level contamination in the operating area of Hood 9-B was caused by a torn hood glove. Four cases of positive nasal smears were found. Cleaning by nasal irrigation was successful. The area and equipment was decontaminated.

W. J. L. W.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 3-18-58

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	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	440	100	320	700	X			
2. PRODUCED DURING MONTH	242	34	146	471	35			
3. P R CAN INVENTORY	35	0	0	X				
4. R C CAN INVENTORY	14	10	0	X				

PUREX

Operations normal at 16 T/D.

REDOX

Operations normal at 6 T/D.

UO₂

Four calciners are operating satisfactorily. Failure of the instrument air in the 271-U Bldg caused some difficulty. The spare compressor has been put in service and an auxiliary diesel compressor has been tied into the system.

234-S

Task I operated continuously during the day except for approximately 2 hours when the fluorinator was being unloaded.

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CHEMICAL PROCESSING DEPARTMENT DAILY PRODUCTION REPORT

DATE 3-19-58

PAGE 59

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	440	100	320	700	~~X~~			
2. PRODUCED DURING MONTH	256	40	170	506	39			
3. P R CAN INVENTORY	20	0	7	~~X~~	~~X~~			
4. R C CAN INVENTORY	15	0	0	~~X~~	~~X~~			

PUREX

Operations normal at 16 T/D.

REDOX

Operations normal at 6 T/D.

UO₂

Three Calciners are operating satisfactorily. The H calciner was removed from service at 1:00 AM on 3-19-58 due to low feed inventory. Some difficulty was experienced with particle size. The hammer mill and cyclone are undergoing inspections to determine the cause.

234-S

Task I operation was normal.

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HW. 55603-*del*

DATE 3-20-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	440	100	320	700				
2. PRODUCED DURING MONTH	277	47	193	532	42			
3. P R CAN INVENTORY	14	0	5					
4. R C CAN INVENTORY	15	0	0					

PUREX

146

10

Operations normal at 16 T/D.

REDOX

The processing rate was increased to 8 T/D at 5:30 PM on 3-20-58.

UO₂

Three calciners remain in operation. The repairs to the M calciner were completed and the unit is standing by ready for operation.

234-S

Task I operation was normal except for a four hour period when the unit was out of service for minor repairs.

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

DATE 3-23-58

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	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	RECUPLEX			
1. SCHEDULED FOR MONTH	440	100	320	700				
2. PRODUCED DURING MONTH	325	70	205	578	44			
3. P R CAN INVENTORY	4	15	11					
4. R C CAN INVENTORY	11	0	0					

PUREX

Operations normal at 16 T/D.

REDOX

Processing continues at 8 T/D. When the 1-A column began to show evidences of flooding, the extraction operation was changed to the 1-S column and the 1-A column was flushed. Processing was then resumed in the 1-A column. A small leak has developed in the partition cycle feed pump.

UO₂

Two calciners remain in operation. The J calciner was shut down at 7:00 PM on 3-21-58 when an agitator pin sheared. The M calciner is heating in preparation for start-up.

234-S

The Task I unit was down for 6 hours on 3-21-58 for replacement of the drum filter cloth. The Teflon cloth has been replaced with Dynal.

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W. J. W.

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DATE 3-24-58

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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	440	100	320	700				
2. PRODUCED DURING MONTH	345	80	212	594	49			
3. P R CAN INVENTORY	33	0	7					
4. R C CAN INVENTORY	11	0	0					

PUREX 174 25

Operations normal at 16 T/D.

REDOX

The processing rate was reduced to 7 T/D at 10:30 PM on 3-24-58 when the extraction column began to flood.

UO₂

Three calciners are operating satisfactorily. The M calciner was placed in service at 9:15 PM on 3-24-58 and is producing slowly. Work on the H calciner is completed and the unit is standing by. The installation of hubs on the G calciner is under way.

234-S

The unit was down until 5:45 PM for repairs to correct low fluorinator vacuum. The unit is now operating satisfactorily.

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Re J.W.

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DATE 3-25-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	440	100	320	700				
2. PRODUCED DURING MONTH	358	86	231	609	53			
3. P R CAN INVENTORY	29	0	6					
4. R C CAN INVENTORY	11	0	0					

PUREX 170 31

Operations normal at 16 T/D.

REDOX

Operations normal at 7 T/D.

UO₂

Four calciners are operating satisfactorily. The L calciner was out of service for approximately 6 hours to permit repair of the thermowell elements. The H calciner resumed operation at 9:15 PM on 3-25-58.

234-S

Task I operation was normal.

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DATE 3-26-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₂	NECUPLER			
1. SCHEDULED FOR MONTH	1140	100	320	700				
2. PRODUCED DURING MONTH	371	92	255	640	56			
3. P R CAN INVENTORY	16	0	6					
4. R C CAN INVENTORY	11	0	0					

PUREX

186

31

Operations normal at 16 T/D.

REDOX

Operations normal at 7 T/D.

UO₂

Four calciners remain in operation. The K calciner was out of service for 9 hours to repair a broken thermowell. The installation of new agitator blades on the G calciner was completed and the unit was run in.

234-S

Task I operation was normal.

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DATE 3-27-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	540	100	320	700				
2. PRODUCED DURING MONTH	392	102	265	665	56			
3. P R CAN INVENTORY	11	6	7					
4. R C CAN INVENTORY	10	0	0					

PUREX 193 57

Operations normal at 16 T/D. The Pu product stream has again been diverted through the ion exchange concentration equipment.

REDOX

Feed to the extraction columns was shut off at 4:30 PM on 3-27-58 in accordance with the scheduled shutdown of the plant.

UO₂

Four calciners are operating satisfactorily.

234-S

Task I was shut down for minor maintenance and cleaning of the hood floors.

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DATE 3-30-58

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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	440	100	320	700	
2. PRODUCED DURING MONTH	439	102	270	737	59
3. P R CAN INVENTORY	29	15	11		
4. R C CAN INVENTORY	7	0	0		

PUREX

Operations normal at 16 T/D. The E-3 sampler hood was contaminated when the sampler blew back while taking an E-5 sample. The area outside the hood has been cleaned. No personnel contamination was involved.

REDOX

Equipment flushing is under way. The silver reactors from A and B dissolvers are being replaced.

UO₂

Three calciners are operating normally. The K calciner was shut down at 9:00 AM on 3-28-58 when the off-gas line plugged.

234-S

Clean-up of the hood floor was completed and the drum filter cloth was replaced, after which the operation of Task I was resumed on 3-28-58.

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me J.L.W.

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HW. 55603-*Del*

DATE 3-31-58

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CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A	B	C	D	E	F	G	H
	PUREX	REDOX	234-S	UO ₃	RECUPLEX			
1. SCHEDULED FOR MONTH	440	100	320	700				
2. PRODUCED DURING MONTH	459	102	289	752*	67			
3. P R CAN INVENTORY	47	0	6					
4. R C CAN INVENTORY	7	0	0					

PUREX

March production of Pu and U was 98% and 104%, respectively, of the Official Forecast.

Operations normal at 16 T/D.

REDOX

March production of Pu and U was 80% and 64%, respectively, of the Official Forecast.

Equipment flushing is continuing.

UO₃

March production of UO₃ was 102% of the Official Forecast.

Three calciners are operating satisfactorily.

*Figure reflects the amount of UO₃ loaded into shipping containers.
Approved production for March is 615.4 tons.

234-S

Task I operated satisfactorily except for minor adjustments and repairs.
some difficulty was experienced with the drum filter.

me

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HW- 55603-De1

DATE 1-1-58

PAGE 2

CHEMICAL PROCESSING DEPARTMENT
DAILY PRODUCTION REPORT

	A PUREX	B REDOX	C 234-S	D UO ₂	E RECUPLEX	F	G	H
1. SCHEDULED FOR MONTH	472	130	400	650				
2. PRODUCED DURING MONTH	0	0	23	30	0			
3. P R CAN INVENTORY	36	6	0					
4. R C CAN INVENTORY	29	7	5					

PUREX

Maintenance and jumper replacement is under way in L and J cells.

REDOX

Equipment flushing is continuing.

UO₂

Four calciners are operating at 27.5 T/D. Excessive temperatures and high power requirements necessitated the shutdown of the H calciner at 11:00 AM on 1-1-58. Preliminary inspection revealed damaged agitator blades. The unit is cooling.

234-S

Some difficulty has been experienced with the vacuum on the drum filter, which may indicate the need for replacement of the filter cloth.

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see Jm/uv.

END

**DATE
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