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~~Roger [redacted]erry, Manager
Safeguards~~

SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

June 17, 1987

Vicki Locati, Analyst
Safeguards

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

<u>CHARGES TO REACTOR:</u>	<u>ENRICHED URANIUM</u>										<u>10-YEAR AVERAGE</u>
	<u>FY-1977</u>	<u>FY-1978</u>	<u>FY-1979</u>	<u>FY-1980</u>	<u>FY-1981</u>	<u>FY-1982</u>	<u>FY-1983</u>	<u>FY-1984</u>	<u>FY-1985</u>	<u>FY-1986</u>	
Standard Tons U	312.0	276.4	292.3	274.6	111.8	485.5	855.5	607.6	874.7	617.5	470.8
Metric Tons U	283.1	250.7	265.1	249.1	101.4	440.4	776.4	551.1	793.5	560.3	427.1
<u>REACTOR PRODUCTION:</u>											
MWD's (1,000's)	790.6	766.8	749.6	574.1	256.4	579.9	726.4	680.6	760.7	499.8	638.5
Kgs Pu	559.1	557.2	542.4	411.5	195.9	448.1	623.2	582.2	652.6	441.6	501.4
Kgs Nep	8.1	7.7	7.6	5.9	2.5	5.6	6.2	5.7	6.8	5.2	6.1
<u>REACTOR DISCHARGES:</u>											
Standard Tons U.	307.2	274.9	291.4	273.4	111.4	481.9	852.8	608.4	872.7	622.7	469.7
Metric Tons U	278.6	249.4	264.4	248.0	101.1	437.2	773.6	552.1	791.7	564.8	426.1
MWD's (1,000's)	790.6	692.1	723.9	667.1	168.6	861.0	819.2	569.3	802.2	479.8	657.4
MWD/Standard Ton	2574	2517	2472	2440	1513	1787	961	936	919	771	1,689
MWD/Metric Ton	2838	2775	2738	2690	1668	1969	1059	1031	1013	850	1,863
Kgs Pu	563.8	498.4	521.7	483.1	132.9	648.9	681.8	487.6	688.0	424.3	513.1
Grams Pu/MWD	.71	.72	.72	.72	.79	.75	.83	.86	.86	.88	.78
Kgs Pu-240	70.1	60.3	62.4	57.2	12.5	64.9	36.8	26.9	36.9	20.9	44.9
Pu-240%	12.4	12.1	12.0	11.8	9.4	10.0	5.4	5.5	5.4	4.9	8.9
Kgs Nep	8.1	7.0	7.3	6.7	1.7	8.4	7.1	5.1	7.1	4.7	6.3
<u>REACTOR ENDING INVENTORY:</u>											
Standard Tons U	401.0	401.6	401.0	401.2	401.5	403.3	403.2	403.7	401.9	399.9	401.8
Metric Tons U	363.7	364.3	363.8	363.9	364.2	365.9	365.8	366.2	364.6	362.8	364.5
MWD's (1,000's)	467.8	463.8	489.5	396.4	484.2	203.1	176.9	188.4	180.3	142.2	319.3
Kgs Pu	370.1	369.5	390.2	318.5	381.5	180.7	158.1	167.7	160.6	130.6	262.8
Kgs Nep	3.7	4.4	4.6	3.7	4.5	1.7	1.5	1.6	1.5	1.4	2.9

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

DEPLETED URANIUM (a)

BY FISCAL YEARS

IN ROUNDED QUANTITIES

<u>CHARGES TO REACTOR:</u>	<u>FY-1977</u>	<u>FY-1978</u>	<u>FY-1979</u>	<u>FY-1980</u>	<u>FY-1981</u>	<u>FY-1982</u>	<u>FY-1983</u>	<u>FY-1984</u>	<u>FY-1985</u>	<u>FY-1986</u>	<u>10-YEAR AVERAGE</u>
Standard Tons U	.8	.8	.8	.8	-0-	1.2	2.0	2.8	6.1	10.5	2.2
Metric Tons U	.7	.7	.7	.7	-0-	1.1	2.0	2.6	5.8	9.7	2.0
<u>REACTOR PRODUCTION:</u>											
MWD's	1642	1540	1504	1166	485	1072	1386	1855	3502.1	3,533.8	1,473.8
Grams Pu	1371	1483	1398	1071	514	1041	1564	2118	4084.1	4,234.4	1,573.2
Grams Nep	9	10	11	8	3	7	8	11	20.2	40.6	10.7
<u>REACTOR DISCHARGES:</u>											
Standard Tons U	.8	.8	.8	.8	-0-	1.2	2.0	1.2	6.5	5.3	1.6
Metric Tons U	.7	.7	.7	.7	-0-	1.1	2.0	1.2	6.0	4.8	1.5
MWD's	1524	1422	1680	1443	-0-	1549	1403	922	3400.6	2,891.7	1,352.9
MWD/Standard Ton	2027	1800	2039	1751	-0-	1252	702	768	523	546	950.7
MWD/Metric Ton	2232	1988	2248	1930	-0-	1380	702	768	567	602	1,035
Grams Pu	1283	1287	1543	1380	-0-	1538	1592	1033	3949.2	3,386.8	1,416.0
Grams Pu/MWD	.84	.91	.92	.96	-0-	.99	1.13	1.10	1.16	1.17	.77
Grams Pu-240	169	155	201	160	-0-	156	84	60	173.3	173.2	111.0
Pu-240%	13.20	12.05	13.00	11.61	-0-	10.14	5.28	5.80	4.4	5.1	6.7
Grams Nep	8	9	12	10	-0-	10	8	6	19.6	29.6	9.4
<u>REACTOR ENDING INVENTORY:</u>											
Standard Tons U	.8	.8	.8	.8	.8	.8	.8	1.1	2.0	7.3	1.3
Metric Tons U	.7	.7	.7	.7	.7	.7	.8	1.0	1.8	6.6	1.2
MWD's	533	652	475	198	683	204	249	335	863	1,505	474.8
Grams Pu	491	687	542	233	747	250	315	391	1020	1,950	552.2
Grams Nep	3	4	3	1	4	1	2	2	5	22	3.9

NOTES: (a) Charged as Normal or Natural Uranium.

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

	ENRICHED URANIUM		BY FISCAL YEARS (a)					IN ROUNDED QUANTITIES				10-YEAR AVERAGE
	FY-1976(b)	FY-1977	FY-1978	FY-1979	FY-1980	FY-1981	FY-1982	FY-1983	FY-1984	FY-1985		
CHARGES TO REACTOR:												
Standard Tons U	265.6	312.0	276.4	292.3	274.6	111.8	485.5	855.5	607.6	874.7	435.6	
Metric Tons U	240.9	283.1	250.7	265.1	249.1	101.4	440.4	776.4	551.1	793.5	395.2	
REACTOR PRODUCTION:												
MWD's (1,000's)	585.9	790.6	766.8	749.6	574.1	256.4	579.9	726.4	680.6	760.7	647.1	
Kgs Pu	428.0	559.1	557.2	542.4	411.5	195.9	448.1	623.2	582.2	652.6	500.0	
Kgs Nep	6.0	8.1	7.7	7.6	5.9	2.5	5.6	6.2	5.7	6.8	6.2	
REACTOR DISCHARGES:												
Standard Tons U	264.3	307.2	274.9	291.4	273.4	111.4	481.9	852.8	608.4	872.7	433.8	
Metric Tons U	239.7	278.6	249.4	264.4	248.0	101.1	437.2	773.6	552.1	791.7	393.6	
MWD's (1,000's)	656.8	790.6	692.1	723.9	667.1	168.6	861.0	819.2	569.3	802.2	675.1	
MWD/Standard Ton	2474	2574	2517	2472	2440	1513	1787	961	936	919	1859	
MWD/Metric Ton	2740	2838	2775	2738	2690	1668	1969	1059	1031	1013	2052	
Kgs Pu	475.9	563.8	498.4	521.7	483.1	132.9	648.9	681.8	487.6	688.0	518.2	
Grams Pu/MWD	.72	.71	.72	.72	.72	.79	.75	.83	.86	.86	.77	
Kgs Pu-240	57.1	70.1	60.3	62.4	57.2	12.5	64.9	36.8	26.9	36.9	48.5	
Pu-240%	12.0	12.4	12.1	12.0	11.8	9.4	10.0	5.4	5.5	5.4	9.6	
Kgs Nep	6.6	8.1	7.0	7.3	6.7	1.7	8.4	7.1	5.1	7.1	6.5	
REACTOR INVENTORY: (c)												
Standard Tons U	402.3	401.0	401.6	401.0	401.2	401.5	403.3	403.2	403.7	401.9	402.1	
Metric Tons U	365.0	363.7	364.3	363.8	363.9	364.2	365.9	365.8	366.2	364.6	364.7	
MWD's (1,000's)	389.0	467.8	463.8	489.5	396.4	484.2	203.1	176.9	188.4	180.3	343.9	
Kgs Pu	315.4	370.1	369.5	390.2	318.5	381.5	180.7	158.1	167.7	160.6	281.2	
Kgs Nep	3.6	3.7	4.4	4.6	3.7	4.5	1.7	1.5	1.6	1.5	3.1	

NOTES: (a) From July through June up to 1977. Thereafter it's from October through September.
 (b) FY extended this year through September. Period covered is 15 months.
 (c) As of June 30th through FY-1976. Thereafter it's as of September 30th.

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

CHARGES TO REACTOR:	DEPLETED URANIUM (a)										10-YEAR AVERAGE
	FY-1976(c)	FY-1977	FY-1978	FY-1979	FY-1980	FY-1981	FY-1982	FY-1983	FY-1984	FY-1985	
Standard Tons U	.8	.8	.8	.8	.8	-0-	1.2	2.0	2.8	6.1	1.6
Metric Tons U	.7	.7	.7	.7	.7	-0-	1.1	2.0	2.6	5.8	1.5
REACTOR PRODUCTION:											
MWD's	1163	1642	1540	1504	1166	485	1072	1386	1855	3502.1	1531.5
Grams Pu	1038	1371	1483	1398	1071	514	1041	1564	2118	4084.1	1568.2
Grams Nep	6	9	10	11	8	3	7	8	11	20.2	9.3
REACTOR DISCHARGES:											
Standard Tons U	.8	.8	.8	.8	.8	-0-	1.2	2.0	1.2	6.5	1.5
Metric Tons U	.7	.7	.7	.7	.7	-0-	1.1	2.0	1.2	6.0	1.4
MWD's	1301	1524	1422	1680	1443	-0-	1549	1403	922	3400.6	1464.5
MWD/Standard Ton	1727	2027	1800	2039	1751	-0-	1252	702	768	523	1258.9
MWD/Metric Ton	1904	2232	1988	2248	1930	-0-	1380	702	768	567	1371.9
Grams Pu	1141	1283	1287	1543	1380	-0-	1538	1592	1033	3949.2	1474.6
Grams Pu/MWD	.88	.84	.91	.92	.96	-0-	.99	1.13	1.10	1.16	.89
Grams Pu-240	134	159	155	201	160	-0-	156	84	60	173.3	129.2
Pu-240%	11.78	13.20	12.03	13.00	11.61	-0-	10.14	5.28	5.80	4.4	8.7
Grams Nep	7	8	9	12	10	-0-	10	8	6	19.6	9.0
REACTOR INVENTORY:											
Standard Tons U	.8	.8	.8	.8	.8	.8	.8	.8	1.1	2.0	1.0
Metric Tons U	.7	.7	.7	.7	.7	.7	.7	.8	1.0	1.8	.9
MWD's	417	533	652	475	198	683	204	249	335	863	461
Grams Pu	403	491	687	542	233	747	250	315	391	1020	507.9
Grams Nep	2	3	4	3	1	4	1	2	2	5	2.7

NOTES: (a) Charged as Normal or Natural Uranium.
 (b) FY period to 1977 was July through June. Starting in 1977 it changed to October through September.
 (c) FY period was 15 months - July 1975 through September 1976.

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

DECLASSIFIED Page 6 of 9

ENRICHED URANIUM	BY FISCAL YEARS (a)										10-YEAR AVERAGE
	FY-1975	FY-1976(b)	FY-1977	FY-1978	FY-1979	FY-1980	FY-1981	FY-1982	FY-1983	FY-1984	
<u>CHARGES TO REACTOR:</u>											
Standard Tons U	267.7	265.6	312.0	276.4	292.3	274.6	111.8	485.5	855.5	607.6	374.9
Metric Tons U (c)	242.8	240.9	283.1	250.7	265.1	249.1	101.4	440.4	776.4	551.1	340.1
<u>REACTOR PRODUCTION:</u>											
MWD's (1,000's)	769.2	585.9	790.6	766.8	749.6	574.1	256.4	579.9	726.4	680.6	648.0
Kgs Pu	555.2	428.0	559.1	557.2	542.4	411.5	195.9	448.1	623.2	582.2	490.3
Kgs Nep	7.6	6.0	8.1	7.7	7.6	5.9	2.5	5.6	6.2	5.7	6.3
<u>REACTOR DISCHARGES:</u>											
Standard Tons U	261.4	264.3	307.2	274.9	291.4	273.4	111.4	481.9	852.8	608.4	372.7
Metric Tons U (c)	237.1	239.7	278.6	249.4	264.4	248.0	101.1	437.2	773.6	552.1	338.1
MWD's (1,000's)	665.9	656.8	790.6	692.1	723.9	667.1	168.6	861.0	819.2	569.3	661.5
MWD/Standard Ton	2535	2474	2574	2517	2472	2440	1513	1787	961	936	2021
MWD/Metric Ton	2809	2740	2838	2775	2738	2690	1668	1969	1059	1031	2232
Kgs Pu	480.4	475.9	563.8	498.4	521.7	483.1	132.9	648.9	681.8	487.6	497.5
Grams Pu/MWD	.72	.72	.71	.72	.72	.72	.79	.75	.83	.86	.75
Kgs Pu-240	58.7	57.1	70.1	60.3	62.4	57.2	12.5	64.9	36.8	26.9	50.7
Pu-240%	12.2	12.0	12.4	12.1	12.0	11.8	9.4	10.0	5.4	5.5	10.3
Kgs Nep	6.4	6.6	8.1	7.0	7.3	6.7	1.7	8.4	7.1	5.1	6.4
<u>REACTOR INVENTORY: (d)</u>											
Standard Tons U	401.5	402.3	401.0	401.6	401.0	401.2	401.5	403.3	403.2	403.7	402.0
Metric Tons U (c)	364.2	365.0	363.7	364.3	363.8	363.9	364.2	365.9	365.8	366.2	364.7
MWD's (1,000's)	459.9	389.0	467.8	463.8	489.5	396.4	484.2	203.1	176.9	188.4	371.9
Kgs Pu	363.3	315.4	370.1	369.5	390.2	318.5	381.5	180.7	158.1	167.7	301.5
Kgs Nep	4.2	3.6	3.7	4.4	4.6	3.7	4.5	1.7	1.5	1.6	3.4

- NOTES: (a) From July through June up to 1977. Thereafter it's from October through September.
 (b) FY extended this year through September. Period covered is 15 months.
 (c) Started reporting in metric units in September 1974. Standards and metric tons shown here for comparison purposes only.
 (d) As of June 30th through FY-1976. Thereafter it's as of September 30th.

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

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<u>DEPLETED URANIUM (a)</u>	<u>BY FISCAL YEARS (b)</u>										<u>10-YEAR-AVERAGE</u>
	<u>FY-1975</u>	<u>FY-1976(c)</u>	<u>FY-1977</u>	<u>FY-1978</u>	<u>FY-1979</u>	<u>FY-1980</u>	<u>FY-1981</u>	<u>FY-1982</u>	<u>FY-1983</u>	<u>FY-1984</u>	
<u>CHARGES TO REACTOR:</u>											
Standard Tons U	.8	.8	.8	.8	.8	.8	-0-	1.2	2.0	2.8	1.1
Metric Tons U	.7	.7	.7	.7	.7	.7	-0-	1.1	2.0	2.6	1.0
<u>REACTOR PRODUCTION:</u>											
MWD's	1557	1163	1642	1540	1504	1166	485	1072	1386	1855	1337
Grams Pu	1323	1038	1371	1483	1398	1071	514	1041	1564	2118	1292
Grams Nep	8	6	9	10	11	8	3	7	8	11	8
<u>REACTOR DISCHARGES:</u>											
Standard Tons U	.8	.8	.8	.8	.8	.8	-0-	1.2	2.0	1.2	.9
Metric Tons U	.7	.7	.7	.7	.7	.7	-0-	1.1	2.0	1.2	.9
MWD's	1414	1301	1524	1422	1680	1443	-0-	1549	1403	922	1266
MWD/Standard Ton	1878	1727	2027	1800	2039	1751	-0-	1252	702	768	1394
MWD/Metric Ton	2070	1904	2232	1988	2248	1930	-0-	1380	702	768	1522
Grams Pu	1215	1141	1283	1287	1543	1380	-0-	1538	1592	1033	1201
Grams Pu/MWD	.86	.88	.84	.91	.92	.96	-0-	.99	1.13	1.10	.86
Grams Pu-240	152	134	169	155	201	160	-0-	156	84	60	127
Pu-240%	12.51	11.78	13.20	12.03	13.00	11.61	-0-	10.14	5.28	5.80	9.54
Grams Nep	7	7	8	9	12	10	-0-	10	8	6	8
<u>REACTOR INVENTORY:</u>											
Standard Tons U	.7	.8	.8	.8	.8	.8	.8	.8	.8	1.1	.8
Metric Tons U	.6	.7	.7	.7	.7	.7	.7	.7	.8	1.0	.7
MWD's	555	417	533	652	475	198	683	204	249	335	430
Grams Pu	506	403	491	687	542	233	747	250	315	391	457
Grams Nep	3	2	3	4	3	1	4	1	2	2	3

NOTES: (a) Charged as Normal or Natural Uranium.
 (b) FY period up to 1977 was from July through June. Starting in 1977 it changed to October through September.
 (c) FY period was 15 months - July 1975 through September 1976.

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

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CHARGES TO REACTOR:	ENRICHED URANIUM			BY FISCAL YEARS (a)				IN ROUNDED QUANTITIES				10-YEAR AVERAGE
	FY-1974	FY-1975	FY-1976(b)	FY-1977	FY-1978	FY-1979	FY-1980	FY-1981	FY-1982	FY-1983		
Standard Tons U	363.6	267.7	265.6	312.0	276.4	292.3	274.6	111.8	485.5	855.5	350.5	
Metric Tons U (c)	329.9	242.8	240.9	283.1	250.7	265.1	249.1	101.4	440.4	776.4	318.0	
REACTOR PRODUCTION:												
MWD's (1,000's)	824.2	769.2	585.9	790.6	766.8	749.6	574.1	256.4	579.9	726.4	662.3	
Kgs Pu	605.8	555.2	428.0	559.1	557.2	542.4	411.5	195.9	448.1	623.2	492.6	
Kgs Nep	7.8	7.6	6.0	8.1	7.7	7.6	5.9	2.5	5.6	6.2	6.5	
REACTOR DISCHARGES:												
Standard Tons U	365.5	261.4	264.3	307.2	274.9	291.4	273.4	111.4	481.9	852.8	348.4	
Metric Tons U (c)	331.6	237.1	239.7	278.6	249.4	264.4	248.0	101.1	437.2	773.6	316.1	
MWD's (1,000's)	829.8	665.9	656.8	790.6	692.1	723.9	667.1	168.6	861.0	819.2	687.5	
MWD/Standard Ton	2270	2535	2474	2574	2517	2472	2440	1513	1787	961	2154	
MWD/Metric Ton	2502	2809	2740	2838	2775	2738	2690	1668	1969	1059	2379	
Kgs Pu	616.4	480.4	475.9	563.8	498.4	521.7	483.1	132.9	648.9	681.8	510.3	
Grams Pu/MWD	.74	.72	.72	.71	.72	.72	.72	.79	.75	.83	.74	
Kgs Pu-240	69.9	58.7	57.1	70.1	60.3	62.4	57.2	12.5	64.9	36.8	55.0	
Pu-240%	11.3	12.2	12.0	12.4	12.1	12.0	11.8	9.4	10.0	5.4	10.9	
Kgs. Nep	7.8	6.4	6.6	8.1	7.0	7.3	6.7	1.7	8.4	7.1	6.7	
REACTOR INVENTORY: (d)												
Standard Tons U	396.3	401.5	402.3	401.0	401.6	401.0	401.2	401.5	403.3	403.2	401.3	
Metric Tons U (c)	359.5	364.2	365.0	363.7	364.3	363.8	363.9	364.2	365.9	365.8	364.0	
MDW's (1,000's)	356.7	459.9	389.0	467.8	463.8	489.5	396.4	484.2	203.1	176.9	388.7	
Kgs Pu	288.5	363.3	315.4	370.1	369.5	390.2	318.5	381.5	180.7	158.1	313.6	
Kgs Nep	3.1	4.2	3.6	3.7	4.4	4.6	3.7	4.5	1.7	1.5	3.5	

- NOTES:**
- (a) From July through June up to 1977. Thereafter it's from October through September.
 - (b) FY extended this year through September. Period covered is 15 months.
 - (c) Started reporting in metric units in September 1974. Standard and metric tons shown here for comparison purposes only.
 - (d) As of June 30th through FY-1976. Thereafter it's as of September 30th.

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SUMMARY OF N REACTOR OPERATIONS - 10 YEARS

CHARGES TO REACTOR:	DEPLETED URANIUM (a)		BY FISCAL YEARS (b)					IN ROUNDED QUANTITIES				10-YEAR AVERAGE
	FY-1974	FY-1975	FY-1976(c)	FY-1977	FY-1978	FY-1979	FY-1980	FY-1981	FY-1982	FY-1983		
Standard Tons U	1.1	.8	.8	.8	.8	.8	.8	-0-	1.2	2.0	.9	
Metric Tons U	1.0	.7	.7	.7	.7	.7	.7	-0-	1.1	2.0	.8	
REACTOR PRODUCTION:												
MWD's	1672	1557	1163	1642	1540	1504	1166	485	1072	1386	1319	
Grams Pu	1430	1323	1038	1371	1483	1398	1071	514	1041	1564	1223	
Grams Nep	9	8	6	9	10	11	8	3	7	8	8	
REACTOR DISCHARGES:												
Standard Tons U	1.1	.8	.8	.8	.8	.8	.8	-0-	1.2	2.0	.9	
Metric Tons U	1.0	.7	.7	.7	.7	.7	.7	-0-	1.1	2.0	.8	
MWD's	1977	1414	1301	1524	1422	1680	1443	-0-	1549	1403	1371	
MWD/Standard Ton	1750	1878	1727	2027	1800	2039	1751	-0-	1252	702	1493	
MWD/Metric Ton	1929	2070	1904	2232	1988	2248	1930	-0-	1380	702	1638	
Grams Pu	1731	1215	1141	1283	1287	1543	1380	-0-	1538	1592	1271	
Grams Pu/MWD	.88	.86	.88	.84	.91	.92	.96	-0-	.99	1.13	.84	
Grams Pu-240	205	152	134	169	155	201	160	-0-	156	84	142	
Pu-240%	11.87	12.51	11.78	13.20	12.03	13.00	11.61	-0-	10.14	5.28	10.14	
Grams Nep	10	7	7	8	9	12	10	-0-	10	8	8	
REACTOR INVENTORY:												
Standard Tons U	.8	.7	.8	.8	.8	.8	.8	.8	.8	.8	.8	
Metric Tons U	.7	.6	.7	.7	.7	.7	.7	.7	.7	.8	.7	
MWD's	412	555	417	533	652	475	198	683	204	249	438	
Grams Pu	399	506	403	491	687	542	233	747	250	315	457	
Grams Nep	2	3	2	3	4	3	1	4	1	2	3	

NOTES: (a) Charged as Normal or Natural Uranium.
 (b) FY period up to 1977 was from July through June. Starting in 1977 it changed to October through September.
 (c) FY period was 15 months - July 1975 through September 1976.

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