

February 27, 1996

2CAN029606

U. S. Nuclear Regulatory Commission
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Washington, DC 20555

Subject: Arkansas Nuclear One - Unit 2
Docket No. 50-368
License No. NPF-6
1995 Annual Primary Coolant Activity Report

Gentlemen:

Arkansas Nuclear One, Unit 2 (ANO-2) Technical Specification 6.9.1.5.e requires an annual submittal of the results of the specific activity analysis in which the primary coolant exceeds the limits of technical specification 3.4.8. The specific activity of the primary coolant, as required by specification 3.4.8, shall be limited to: a) less than or equal to 1.0 microcurie per gram DOSE EQUIVALENT I-131, and b) less than or equal to 100/E-bar (where E-bar = average disintegration energy) microcuries per gram. The purpose of this letter is to provide this information for 1995.

The limits of technical specification 3.4.8 were exceeded on January 7, 1995, at approximately 0030 hours. The ANO-2 primary coolant exceeded this limit for approximately 15 hours. It is believed that the cause for exceeding the limit was a previously identified fuel pin failure in conjunction with a normal plant shutdown. The coolant activity reached a maximum of 3.55 microcuries per milliliter (gram).

The limits of technical specification 3.4.8 were also exceeded on September 1, 1995, at approximately 1200 hours. The ANO-2 primary coolant exceeded this limit for approximately 8 hours. It is believed that the cause for exceeding the limit was a previously identified fuel pin failure in conjunction with a plant trip. The coolant activity reached a maximum of 1.99 microcuries per milliliter (gram).

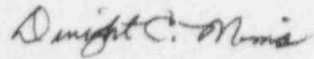
The information required by technical specification 6.9.1.5.e concerning reactor power history, radioiodine isotopic analysis, letdown system flow, and iodine concentrations during the events is attached. Should you have any questions, please contact me.

040117

9603050089 960227
PDR ADOCK 05000368
R PDR

ADD 1

Very truly yours,



Dwight C. Mims
Director, Nuclear Safety

DCM/nbm

cc: Mr. Leonard J. Callan
Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

NRC Senior Resident Inspector
Arkansas Nuclear One
P.O. Box 310
London, AR 72847

Mr. George Kalman
NRR Project Manager Region IV/ANO-1 & 2
U. S. Nuclear Regulatory Commission
NRR Mail Stop 13-H-3
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

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Attachment 1

**1995
Primary Coolant
I-131 Dose Equivalent
Activity**

Arkansas Nuclear One

0 = < or > Values

23-JAN-96 14:44

UNIT 2 RCS LIQ GAMMA SPEC DATA

IDE

UCI/CC

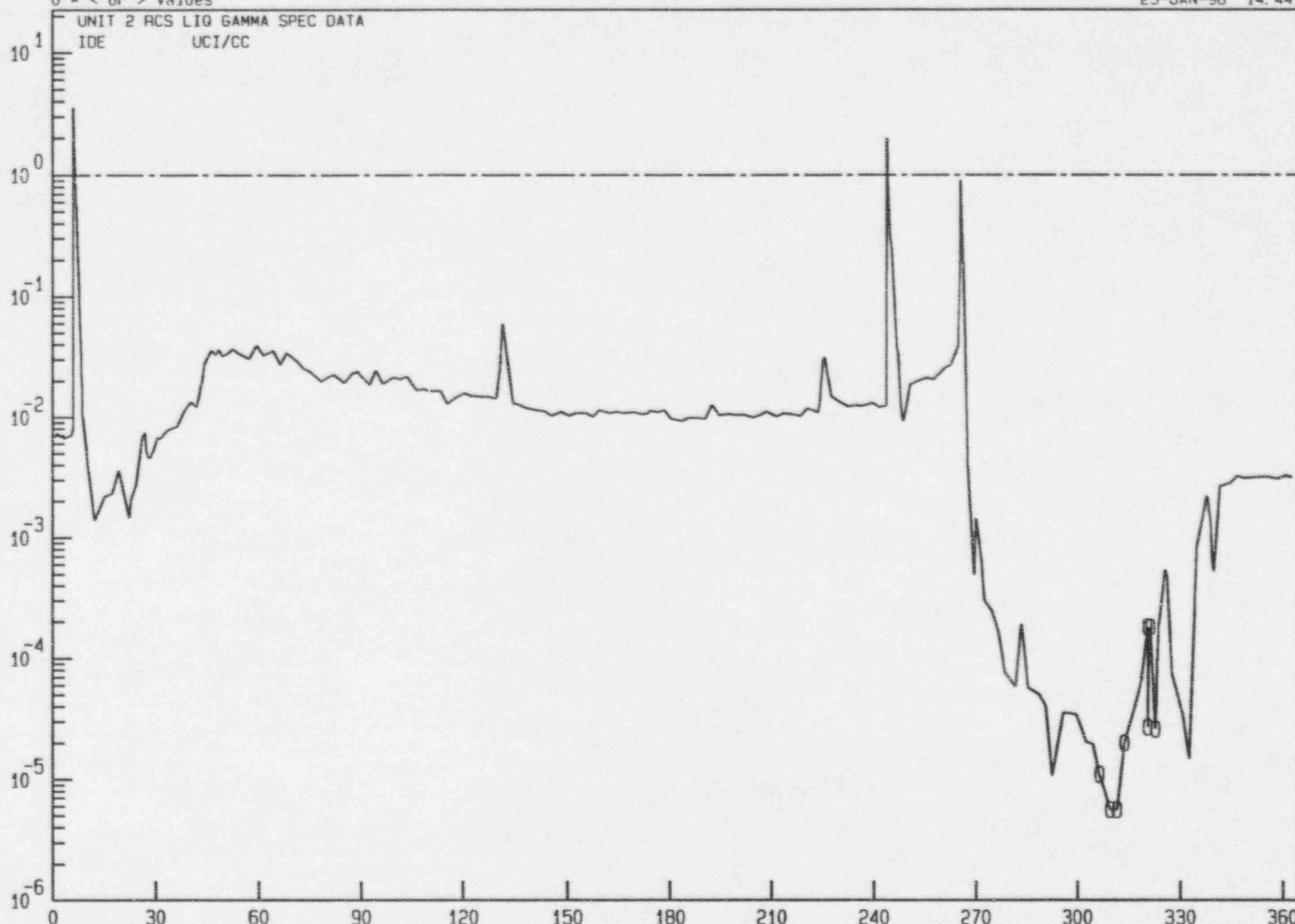
UCI/CC

10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵
10⁻⁶

01-JAN-95

DAYS

31-DEC-95



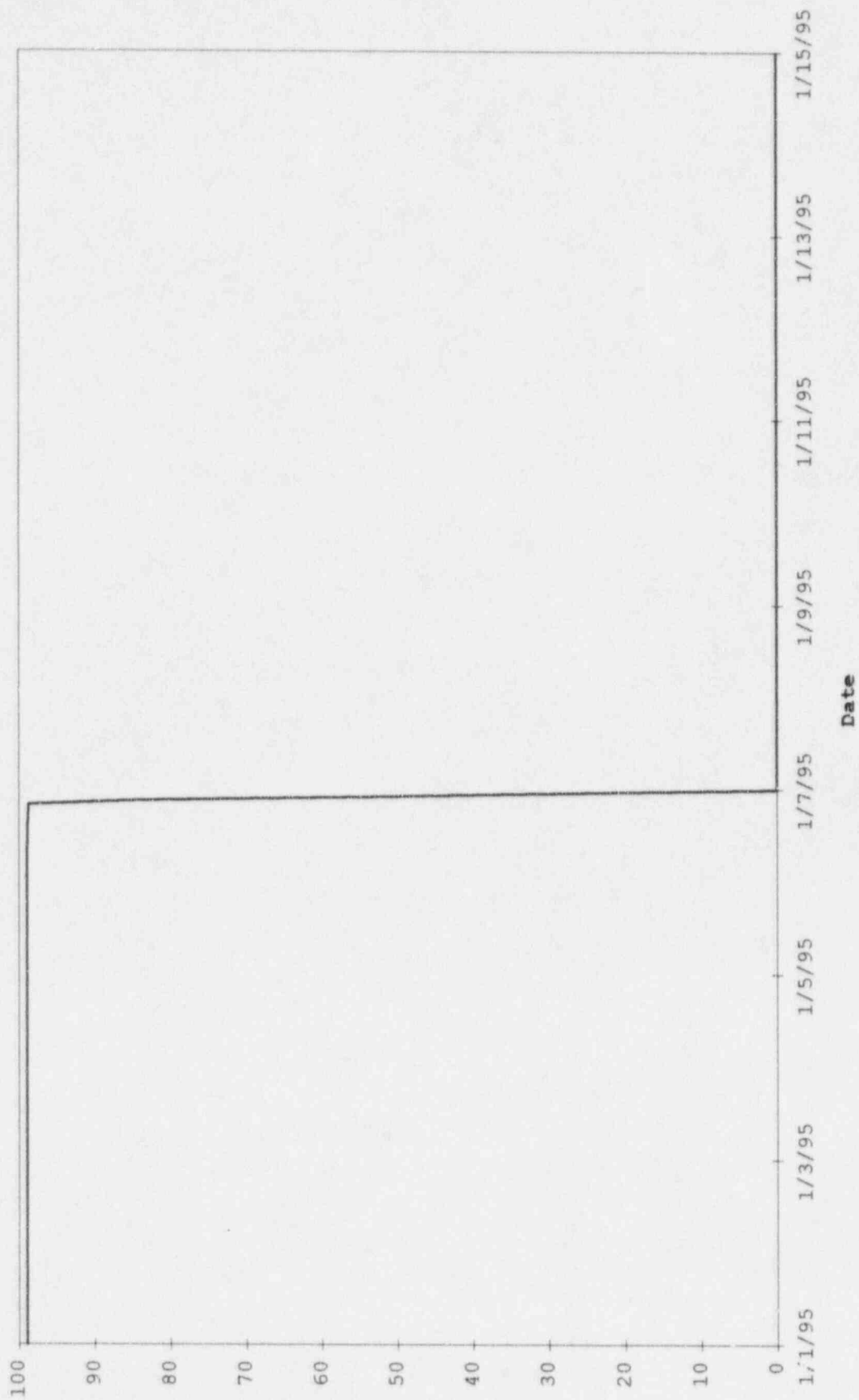
January 7, 1995 Event

Attachment 2

Reactor Power
History

January 7, 1995 Event

Arkansas Nuclear One



Attachment 3

Results of
Isotopic Analyses

January 7, 1995 Event

Entergy Operations : ANO - Nuclear Chemistry Department - 23-JAN-1996 13:14

Main Spectra: 95-00152

Bkg Spectra : 95-00150

Sample date : 6-JAN-1995 23:00:00 Isolation date : 6-JAN-1995 23:00:00
Sample ID : 2 RCS Liquid Sample Quantity : 1.00000E+01 ml
Comments : 2 HOURS AFTER RCS IDE SAMPLE
Geometry : Table 201 60 ml bottle CAVE 2 SHELF 1

Calib date : 6-JAN-1995 22:40:54 Acquisition date : 7-JAN-1995 00:08:46
keV/channel : 4.99248E-01 Elapsed live time: 0 00:30:00.00
offset : -2.51514E-01 Percent deadtime : 3.5%

Decay limit : 8.00000 Peak Sensitivity : 3.00000
Abundance : 30.00000 Energy tolerance : 1.50000
Library : Libark Nuclear Chemist : THORNTON

Peak Search performed from channel : 100 to 4050

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
9	72.83	1838	22292	1.50	146.39	143	13	13.8	9.95E-01	
9	75.01*	3093	25630	1.29	150.75	143	13	9.2		
1	80.64*	1633	22363	1.59	162.04	159	7	15.4	5.02E-01	XE-133 I-131 XE-133
1	84.82*	1953	22736	1.82	170.39	168	7	13.0	1.72E+00	
4	135.38	2125	27150	1.48	271.68	268	13	13.0	7.58E-01	I-134 SE-75
4	138.03	1433	35069	1.52	276.97	268	13	23.8		CS-138
1	220.44	2694	34577	1.65	442.05	438	9	12.5	8.22E-01	I-135
1	227.59	1418	29255	1.56	456.37	453	8	21.1	1.00E+00	CS-138 TE-132
1	235.75	1173	28194	1.20	472.72	470	8	25.0	6.63E-01	I-134
1	249.67*	8706	33704	1.50	500.59	496	10	4.1	8.27E-01	XE-135
1	262.79	1571	25675	1.58	526.87	524	8	17.9	6.25E-01	I-132 I-133 CD-113M I-135
5	284.36	1919	28499	1.48	570.08	566	18	16.1	2.67E+00	I-131 I-132
5	288.33	3989	31786	1.70	578.04	566	18	8.5		I-135
1	364.29	15718	27641	1.58	730.18	724	13	2.3	9.81E-01	I-131
2	405.19	2213	14006	1.56	812.11	804	20	9.8	1.26E+00	I-134
2	408.72	2044	15447	1.58	819.17	804	20	11.6		XE-135 CS-138
1	417.45	3262	14993	1.64	836.67	832	10	7.3	1.86E+00	I-135
1	433.26	1603	14490	1.68	868.33	864	10	14.2	7.23E-01	I-134 I-135
3	462.54	13051	13994	1.60	926.98	914	19	1.9		CS-138
1	488.16	772	10040	1.55	978.30	975	8	22.8	2.06E-01	I-134
1	510.73*	494259	35122	2.83	1023.51	1014	25	0.2	1.23E+02	CO-58
4	522.43	8278	8082	1.66	1046.94	1041	28	2.3	1.85E+00	TE-132 I-132
4	526.34	9587	7858	1.71	1054.78	1041	28	2.1		I-135 XE-135M

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	529.63	51598	7405	1.66	1061.36	1041	28	0.6		I-133 I-135
1	535.25	383	5744	1.30	1072.61	1070	8	34.3	2.16E+00	
1	540.58	1973	7029	1.62	1083.29	1079	10	8.3	3.51E-01	I-134
1	546.47	9747	8894	1.71	1095.08	1089	13	2.2	4.86E-01	I-135 CS-138 I-132
1	595.13	2441	6764	1.75	1192.56	1187	11	6.8	1.07E+00	I-134
1	604.49	477	5406	1.82	1211.31	1208	9	28.1	4.20E-01	CS-134
1	621.42	3503	7166	1.88	1245.21	1240	12	5.2	1.30E+00	AG-110M I-132 I-134 RU-106
1	629.92	6609	8581	1.81	1262.25	1253	15	3.3	9.16E+00	I-134 TE-132 I-132
1	636.55	1036	5721	2.28	1275.52	1271	10	13.8	2.52E+00	I-131
1	650.14	1605	6401	2.11	1302.75	1298	12	10.4	8.76E-01	I-135 I-132
8	657.70	566	3698	1.79	1317.89	1314	16	18.1	1.23E+00	AG-110M NB-97
8	661.30	568	4780	1.44	1325.10	1314	16	22.2		CS-137
6	667.42	43893	5720	1.77	1337.36	1330	21	0.6	3.26E+00	TE-132 I-132
6	670.42	4047	7125	2.93	1343.36	1330	21	6.4		I-132 I-132
1	677.07	1458	5834	1.71	1356.68	1352	11	10.6	8.39E-01	AG-110M I-134 AG-110M
1	706.80	1310	5217	2.51	1416.23	1410	13	11.9	9.60E-01	AG-110M I-133 I-135
6	723.17	365	1937	1.25	1449.03	1446	22	18.6	6.09E+00	I-131 ZR-95
6	726.79	2716	4986	2.20	1456.27	1446	22	5.8		I-132 I-132
6	730.41	475	3420	2.76	1463.53	1446	22	23.5		I-134 XE-135
4	766.50*	1463	5062	2.67	1535.82	1529	26	10.6	2.44E+00	NB-95 I-134
4	772.37	30441	3787	1.83	1547.57	1529	26	0.7		TE-132 I-132
1	780.28	482	3540	2.24	1563.42	1559	10	23.7	6.89E-01	I-132
1	795.96	678	3545	2.40	1594.82	1590	11	17.4	3.52E+00	CS-134
1	811.13	6635	5832	4.68	1625.21	1616	18	3.0	3.47E+01	I-132 CO-58 I-132
1	836.56	3518	3884	1.92	1676.14	1669	13	4.1	1.94E+00	I-135
1	846.82	18940	4433	1.89	1696.70	1689	14	1.0	2.28E+00	MN-56 CO-56 I-134

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	856.79	1863	4139	2.28	1716.67	1710	14	7.8	4.21E-01	I-133
										I-134
1	863.16	246	2398	1.50	1729.43	1726	8	35.2	1.54E+00	CO-58
3	871.42	1690	3674	2.10	1745.96	1740	21	8.0	2.11E+00	NB-94
										CS-138
3	875.20	2140	4175	2.27	1753.54	1740	21	6.8		I-133
1	883.89*	12285	4597	1.92	1770.95	1762	16	1.6	4.88E+00	I-134
										AG-110M
1	897.78	3779	3712	1.86	1798.76	1793	13	3.7	4.58E-01	Y-88
										RB-88
1	909.97	478	3133	2.05	1823.19	1818	11	23.0	8.88E-01	I-132
										I-133
1	947.64	790	2772	2.09	1898.63	1894	11	13.5	8.99E-01	I-134
1	954.40	5963	3591	1.97	1912.17	1904	15	2.6	7.72E-01	TE-132
										I-132
4	972.18	981	3764	2.50	1947.79	1938	20	14.4	2.13E+00	I-135
4	974.67	826	2422	2.01	1952.79	1938	20	12.2		I-134
1	983.99	380	3243	2.86	1971.45	1966	14	32.1	2.56E-01	
1	1009.48	7925	3801	2.01	2022.50	2015	16	2.1	5.78E-01	CS-138
1	1038.75	3927	4751	2.24	2081.14	2071	20	4.7	2.30E+00	CO-56
										CS-134
										I-135
										I-134
1	1072.49	2356	3013	1.91	2148.71	2142	13	5.3	9.82E-01	I-134
1	1101.59	1072	3038	2.90	2207.00	2201	14	11.5	5.45E-01	I-135
1	1123.97	1509	2785	2.05	2251.84	2245	13	7.8	1.11E+00	I-135
3	1131.45	9489	2582	2.08	2266.80	2258	25	1.5	2.71E+00	I-135
3	1136.14	2513	2894	2.13	2276.21	2258	25	5.0		I-132
										I-134
8	1143.46	441	2742	2.39	2290.86	2285	19	24.3	1.79E+00	I-132
8	1147.39	427	2298	2.40	2298.73	2285	19	21.5		CS-138
1	1173.14	428	2012	2.68	2350.32	2345	10	20.5	3.51E+00	I-132
										CO-60
4	1236.33	459	1648	2.12	2476.88	2471	19	18.0	1.59E+00	I-133
4	1240.14	321	1614	2.21	2484.52	2471	19	25.6		I-135
1	1260.35	11349	2158	2.18	2525.01	2517	16	1.3	2.34E+00	I-135
1	1290.54	363	951	1.95	2585.47	2581	9	16.4	1.25E+00	I-132
										FE-59
4	1295.07	481	859	1.41	2594.55	2590	17	11.7	4.05E+00	AR-41
										I-132
4	1297.95	1011	1338	2.44	2600.31	2590	17	8.5		I-133
1	1343.19	329	1252	3.31	2690.94	2685	14	23.5	1.31E+00	CS-138
1	1368.57	19809	1902	2.23	2741.76	2731	23	0.9	2.01E+01	I-135
										NA-24
1	1382.21	147	855	2.13	2769.09	2763	11	39.1	1.11E+00	RB-88
1	1398.53	1811	1253	2.31	2801.77	2794	16	5.0	8.72E-01	TE-132
										I-132
5	1435.73	14978	1259	2.26	2876.28	2865	38	1.0	2.70E+00	CS-138
5	1442.03	570	2073	3.74	2888.91	2865	38	22.9		I-132
1	1457.56	3349	1648	2.47	2920.02	2908	22	3.6	4.94E+00	I-135
1	1502.65	306	793	2.22	3010.33	3004	11	19.3	7.70E-01	I-135

Post-NID Peak Search Report (continued)
Sample ID : 2 RCS Liquid

Page : 4
Acquisition date : 7-JAN-1995 00:08:46

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	1566.39	434	771	2.41	3138.00	3133	12	13.6	2.30E+00	I-135
7	1613.78	641	625	2.50	3232.93	3226	25	9.2	9.89E-01	I-134
1	1678.22	3085	731	2.40	3361.99	3352	19	2.9	1.69E+00	I-135
1	1706.63	1479	608	2.62	3418.91	3412	16	4.7	8.52E-01	I-135
1	1732.14	1165	753	2.75	3470.01	3462	17	6.0	1.68E+00	NA-24
1	1741.48	377	540	2.71	3488.72	3483	15	15.3	6.88E-01	I-134
1	1791.49	2413	736	2.45	3588.89	3579	19	3.3	1.25E+00	I-135
3	1807.00	806	420	3.05	3619.94	3612	44	7.4	2.55E+00	I-134
4	1836.25	3678	512	2.44	3678.54	3659	29	2.2		RB-88 Y-88
1	1898.04	154	431	2.98	3802.31	3797	13	29.2	9.24E-01	
1	1920.81	231	451	2.57	3847.91	3842	12	20.0	6.44E-01	I-132
1	2002.69	264	474	3.36	4011.93	4005	16	20.5	1.61E+00	I-132
1	2011.52	131	74	1.86	4029.61	4026	13	22.1	1.92E+00	

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Acquisition date : 7-JAN-1995 00:08:46

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig	Err
NA-24	AP	1368.55	19809.	100.00*	4.082E-03	7.773E-03	7.275E-05	
		1732.10	1165.	10.27	3.391E-03	5.357E-03	3.240E-04	
AR-41	AG	1293.60	481.	99.20*	4.255E-03	2.911E-04	3.418E-05	
CO-56	AP	846.75	18940.	99.99	5.763E-03	4.938E-03	5.148E-05	
		1037.83	3927.	14.00	4.967E-03	8.484E-03	4.001E-04	
		1771.49	0.	15.70*	4.967E-03	0.000E+00	0.000E+00	
MN-56	AP	846.60	18940.	99.00	5.763E-03	7.270E-03	7.579E-05	
		1811.20	0.	27.20*	5.763E-03	0.000E+00	0.000E+00	
CO-58	AP	511.00	494259.	30.00	8.489E-03	2.916E-01	5.193E-04	
		810.75	6635.	99.45*	5.967E-03	1.680E-03	5.000E-05	
		863.94	246.	0.69	5.674E-03	9.440E-03	3.321E-03	
FE-59	AP	1099.22	0.	56.50*	5.674E-03	0.000E+00	0.000E+00	
		1291.56	363.	43.20	4.265E-03	2.959E-04	4.856E-05	
CO-60	AP	1173.23	428.	99.86*	4.562E-03	1.411E-04	2.897E-05	
SE-75	AP	136.00	2125.	56.02*	1.874E-02	3.041E-04	3.963E-05	
RB-88	FP	898.03	3779.	14.50*	5.500E-03	1.787E-01	6.677E-03	
		1382.39	147.	0.77	4.050E-03	1.790E-01	6.994E-02	
		1836.00	3678.	22.10	3.239E-03	1.938E-01	4.172E-03	
Y-88	FP	898.02	3779.	94.00*	5.500E-03	1.098E-03	4.103E-05	
		1836.01	3678.	99.36	3.239E-03	1.717E-03	3.697E-05	
NB-94	AP	702.50	0.	100.00*	3.239E-03	0.000E+00	0.000E+00	
		871.10	1690.	100.00	5.630E-03	4.508E-04	3.616E-05	
NB-95	FP	765.82	1463.	99.00*	6.242E-03	3.559E-04	3.787E-05	
ZR-95	AP	724.18	365.	44.20	6.540E-03	1.897E-04	3.536E-05	
		756.72	0.	54.80*	6.540E-03	0.000E+00	0.000E+00	
NB-97	FP	657.92	566.	98.20*	7.055E-03	1.301E-04	2.358E-05	
RU-106	FP	621.80	3503.	9.81*	7.356E-03	7.292E-03	3.757E-04	
AG-110M	AP	620.35	3503.	2.78	7.356E-03	2.576E-02	1.327E-03	
		657.75	566.	94.74	7.055E-03	1.273E-04	2.307E-05	
		676.60	1458.	0.14	6.898E-03	2.234E-01	2.362E-02	
		677.61	1458.	10.72	6.898E-03	2.962E-03	3.131E-04	
		706.67	1310.	16.74	6.663E-03	1.764E-03	2.106E-04	
		884.67	12285.	72.86*	5.567E-03	4.548E-03	7.082E-05	

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Page : 5
Acquisition date : 7-JAN-1995 00:08:46

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
CD-113M	FP	263.70	1571.	0.01*	1.281E-02	3.069E+00	5.482E-01
I-131	HFP	80.18	1633.	2.62	1.613E-02	5.829E-03	8.970E-04
		284.29	1919.	6.06	1.222E-02	3.913E-03	6.288E-04
		364.48	15718.	81.24*	1.075E-02	2.716E-03	6.294E-05
		636.97	1036.	7.27	7.229E-03	2.977E-03	4.099E-04
		722.89	365.	1.80	6.540E-03	4.669E-03	8.703E-04
I-132	HFP	262.70	1571.	1.44	1.281E-02	1.923E-02	3.436E-03
		284.80	1919.	0.79	1.222E-02	4.491E-02	7.217E-03
		522.65	8278.	16.10	8.352E-03	1.391E-02	3.183E-04
		547.10	9747.	1.25	8.083E-03	2.179E-01	4.877E-03
		621.20	3503.	1.60	7.356E-03	6.722E-02	3.463E-03
		630.22	6609.	13.70	7.284E-03	1.496E-02	4.964E-04
		650.60	1605.	2.70	7.117E-03	1.887E-02	1.971E-03
		667.69	43893.	98.70*	6.976E-03	1.440E-02	8.473E-05
		669.80	4047.	5.00	6.952E-03	2.630E-02	1.689E-03
		671.60	4047.	5.20	6.952E-03	2.529E-02	1.624E-03
		727.20	2716.	5.40	6.514E-03	1.744E-02	1.012E-03
		728.10	2716.	2.20	6.514E-03	4.282E-02	2.485E-03
		772.61	30441.	76.20	6.204E-03	1.454E-02	1.018E-04
		780.20	482.	1.23	6.154E-03	1.438E-02	3.413E-03
		809.80	6635.	2.90	5.967E-03	8.661E-02	2.578E-03
		812.20	6635.	5.60	5.967E-03	4.485E-02	1.335E-03
		910.30	478.	0.92	5.445E-03	2.154E-02	4.961E-03
		954.55	5963.	18.10	5.269E-03	1.412E-02	3.644E-04
		1136.03	2513.	3.00	4.666E-03	4.056E-02	2.018E-03
		1143.40	441.	1.40	4.645E-03	1.532E-02	3.714E-03
		1173.20	428.	1.10	4.562E-03	1.926E-02	3.957E-03
		1290.70	363.	1.14	4.265E-03	1.685E-02	2.766E-03
		1295.30	481.	2.00	4.255E-03	1.277E-02	1.500E-03
		1398.57	1811.	7.10	4.012E-03	1.436E-02	7.247E-04
TE-132	FP	1442.56	570.	1.42	3.917E-03	2.315E-02	5.293E-03
		228.16	1418.	88.50	1.420E-02	1.715E-04	3.614E-05
		522.65	8278.	16.10	8.352E-03	9.360E-03	2.142E-04
		630.22	6609.	13.70	7.284E-03	1.007E-02	3.342E-04
		667.69	43893.	98.70	6.976E-03	9.693E-03	5.703E-05
		772.61	30441.	76.20*	6.204E-03	9.790E-03	6.851E-05
		954.55	5963.	18.10	5.269E-03	9.507E-03	2.453E-04
I-133	HFP	1398.57	1811.	7.10	4.012E-03	9.668E-03	4.878E-04
		263.40	1571.	0.44	1.281E-02	4.415E-02	7.888E-03
		529.50	51598.	87.50*	8.270E-03	1.123E-02	6.204E-05
		707.40	1310.	1.58	6.663E-03	1.966E-02	2.348E-03
		856.10	1863.	1.23	5.708E-03	4.196E-02	3.281E-03
		875.30	2140.	4.55	5.611E-03	1.321E-02	9.017E-04
		910.50	478.	0.38	5.445E-03	3.590E-02	8.267E-03
		1237.50	459.	1.58	4.395E-03	1.044E-02	1.880E-03
		1298.90	1011.	2.19	4.248E-03	1.714E-02	1.457E-03
XE-133	FG	79.62	1633.	0.22	1.613E-02	6.962E-02	1.071E-02
		81.00	1633.	37.10*	1.613E-02	4.129E-04	6.354E-05
CS-134	FP	604.66	477.	97.60	7.505E-03	9.778E-05	2.750E-05
		795.76	678.	85.40*	6.057E-03	1.967E-04	3.420E-05
		1038.50	3927.	1.00	4.967E-03	1.187E-01	5.598E-03
I-134	HFP	135.44	2125.	3.26	1.874E-02	1.576E-02	2.054E-03
		235.49	1173.	1.74	1.382E-02	2.211E-02	5.524E-03
		405.44	2213.	7.35	1.009E-02	1.351E-02	1.327E-03
		433.30	1603.	4.45	9.610E-03	1.698E-02	2.412E-03

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

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Acquisition date : 7-JAN-1995 00:08:46

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-134	HFP	438.90	772.	1.61	8.771E-03	2.478E-02	5.657E-03
		540.80	1973.	8.60	8.148E-03	1.275E-02	1.057E-03
		595.40	2441.	11.20	7.591E-03	1.301E-02	8.892E-04
		621.75	3503.	10.90	7.356E-03	1.979E-02	1.019E-03
		628.60	6609.	2.28	7.284E-03	1.803E-01	5.982E-03
		677.34	1458.	8.20	6.898E-03	1.168E-02	1.235E-03
		730.60	475.	2.20	6.487E-03	1.507E-02	3.545E-03
		766.68	1463.	3.83	6.242E-03	2.772E-02	2.949E-03
		847.03	18940.	96.00*	5.763E-03	1.551E-02	1.617E-04
		857.28	1863.	6.60	5.708E-03	2.239E-02	1.751E-03
		884.08	12285.	66.00	5.567E-03	1.515E-02	2.358E-04
		947.80	790.	4.00	5.294E-03	1.690E-02	2.290E-03
		974.63	826.	4.93	5.194E-03	1.461E-02	1.787E-03
		1040.00	3927.	2.00	4.967E-03	1.791E-01	8.444E-03
		1072.53	2356.	14.30	4.857E-03	1.536E-02	8.193E-04
		1136.12	2513.	9.15	4.666E-03	2.667E-02	1.327E-03
		1613.70	641.	4.00	3.585E-03	2.025E-02	1.871E-03
		1741.40	377.	3.10	3.377E-03	1.630E-02	2.491E-03
		1906.90	806.	5.60	3.280E-03	1.986E-02	1.476E-03
I-135	HFP	220.50	2694.	1.75	1.458E-02	1.842E-02	2.306E-03
		264.26	1571.	0.18	1.281E-02	1.160E-01	2.072E-02
		288.45	3989.	3.09	1.212E-02	1.853E-02	1.581E-03
		417.63	3262.	3.52	9.883E-03	1.632E-02	1.188E-03
		433.74	1603.	0.55	9.610E-03	5.259E-02	7.467E-03
		526.56	9587.	13.33	8.307E-03	1.506E-02	3.203E-04
		530.80	51598.	0.03	8.270E-03	3.446E+01	1.903E-01
		546.56	9747.	7.12	8.083E-03	2.946E-02	6.593E-04
		649.85	1605.	0.45	7.117E-03	8.631E-02	9.015E-03
		707.92	1310.	0.66	6.663E-03	5.200E-02	6.210E-03
		836.80	3518.	6.66	5.820E-03	1.578E-02	6.450E-04
		972.61	981.	1.20	5.203E-03	2.730E-02	3.936E-03
		1038.76	3927.	7.92	4.967E-03	1.736E-02	8.187E-04
		1101.58	1072.	1.60	4.767E-03	2.441E-02	2.807E-03
		1124.00	1509.	3.60	4.701E-03	1.550E-02	1.209E-03
		1131.51	9489.	22.51	4.679E-03	1.567E-02	2.368E-04
		1240.00	321.	0.90	4.386E-03	1.413E-02	3.614E-03
		1260.41	11349.	28.60*	4.336E-03	1.592E-02	2.106E-04
		1367.89	19809.	0.61	4.082E-03	1.392E+00	1.303E-02
		1457.56	3349.	8.64	3.884E-03	1.737E-02	6.250E-04
		1502.79	306.	1.07	3.792E-03	1.310E-02	2.533E-03
		1566.41	434.	1.29	3.670E-03	1.600E-02	2.172E-03
		1678.03	3085.	9.52	3.476E-03	1.621E-02	4.711E-04
		1706.46	1479.	4.09	3.431E-03	1.834E-02	8.645E-04
		1791.20	2413.	7.69	3.302E-03	1.652E-02	5.475E-04
XE-135	FG	249.79	8706.	90.30*	1.325E-02	1.216E-03	4.968E-05
		407.99	2044.	0.36	1.003E-02	9.472E-02	1.096E-02
		731.52	475.	0.06	6.487E-03	2.221E-01	5.223E-02
XE-135M	FG	526.81	9587.	80.00*	8.307E-03	8.488E-02	1.805E-03
CS-137	FP	661.62	568.	84.62*	7.026E-03	1.436E-04	3.188E-05
CS-138	FP	138.10	1433.	1.49	1.868E-02	4.666E-02	1.109E-02
		227.76	1418.	1.51	1.420E-02	5.979E-02	1.260E-02
		408.98	2044.	4.66	1.003E-02	3.955E-02	4.577E-03
		462.79	13051.	30.75	9.132E-03	4.207E-02	8.001E-04
		546.94	9747.	10.76	8.083E-03	1.014E-01	2.271E-03
		871.80	1690.	5.11	5.630E-03	5.316E-02	4.264E-03

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Page : 7
Acquisition date : 7-JAN-1995 00:08:46

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
CS-138	FP	1009.78	7925.	29.83	5.068E-03	4.745E-02	9.884E-04
		1147.22	427.	1.24	4.634E-03	6.703E-02	1.442E-02
		1343.59	329.	1.14	4.143E-03	6.279E-02	1.474E-02
		1435.86	14978.	76.30*	3.930E-03	4.521E-02	4.346E-04

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
9	72.83	1838	22292	1.50	146.39	143	13	1.02E+00	13.8	1.43E+00	
9	75.01	3093	25630	1.29	150.75	143	13	1.72E+00	9.2	1.49E+00	T
1	84.82	1953	22736	1.82	170.39	168	7	1.08E+00	13.0	1.69E+00	T
1	535.25	383	5744	1.30	1072.61	1070	8	2.13E-01	34.3	8.21E-01	
1	983.99	380	3243	2.86	1971.45	1966	14	2.11E-01	32.1	5.16E-01	
1	1898.04	154	431	2.98	3802.31	3797	13	8.57E-02	29.2	0.00E+00	T
1	2011.52	131	74	1.86	4029.61	4026	13	7.26E-02	22.1	0.00E+00	T

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of peaks in spectrum 98
Number of peaks identified by NID 95 96.94%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
AR-41	AG	1.83H	1.700	2.911E-04	3.418E-05
XE-133	FG	5.29D	1.008	4.129E-04	6.354E-05
XE-135	FG	9.08H	1.113	1.216E-03	4.968E-05
XE-135M	FG	15.60M	39.189	8.488E-02	1.805E-03
I-131	HFP	8.04D	1.005	2.716E-03	6.294E-05
I-132	HFP	2.38H	1.504	1.440E-02	8.473E-05
I-133	HFP	20.30H	1.049	1.123E-02	6.204E-05
I-134	HFP	52.60M	3.017	1.551E-02	1.617E-04
I-135	HFP	6.61H	1.159	1.592E-02	2.106E-04
RB-88	FP	17.80M	25.110	1.787E-01	6.677E-03
Y-88	FP	106.60D	1.000	1.098E-03	4.103E-05
NB-95	FP	35.15D	1.001	3.559E-04	3.787E-05
NB-97	FP	16.80H	1.060	1.301E-04	2.358E-05
RU-106	FP	368.20D	1.000	7.292E-03	3.757E-04
CD-113M	FP	14.60Y	1.000	3.069E+00	5.482E-01
TE-132	FP	3.25D	1.013	9.790E-03	6.851E-05
CS-134	FP	2.06Y	1.000	1.967E-04	3.420E-05
CS-137	FP	30.10Y	1.000	1.436E-04	3.188E-05
CS-138	FP	32.20M	6.029	4.521E-02	4.346E-04
NA-24	AP	15.03H	1.067	7.773E-03	7.275E-05
CO-56	AP	77.30D	1.001	0.000E+00	0.000E+00
MN-56	AP	2.58H	1.458	0.000E+00	0.000E+00
CO-58	AP	70.78D	1.001	1.680E-03	5.000E-05
FE-59	AP	45.10D	1.001	0.000E+00	0.000E+00
CO-60	AP	5.27Y	1.000	1.411E-04	2.897E-05
SE-75	AP	120.40D	1.000	3.041E-04	3.963E-05
NB-94	AP	20300.00Y	1.000	0.000E+00	0.000E+00

Summary of Nuclide Activity
Sample ID : 2 RCS Liquid

Acquisition date : 7-JAN-1995 00:08:46 Page : 8

Total number of peaks in spectrum 98
Number of peaks identified by NID 95 96.94%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
ZR-95	AP	64.40D	1.001	0.000E+00	0.000E+00
AG-110M	AP	249.90D	1.000	4.548E-03	7.082E-05

Interference correction summary

Isotope	uCi/cc	Corrections applied BPS : below peak sensitivity
NA-24	= 7.684E-03	I-135
AR-41	= 0.000E+00	bps: I-132
CO-58	= 8.613E-04	I-132 I-132
CO-60	= 0.000E+00	bps: I-132
SE-75	= 0.000E+00	bps: I-134
RB-88	= 0.179	
Y-88	= 0.000E+00	bps: RB-88
NB-95	= 1.568E-04	I-134
NB-97	= 1.301E-04	
RU-106	= 0.000E+00	bps: I-132 I-134
AG-110M	= 0.000E+00	bps: I-134
CD-113M	= 0.000E+00	bps: I-132 I-133 I-135
I-131	= 2.716E-03	
I-132	= 1.440E-02	
TE-132	= 9.790E-03	
I-133	= 1.123E-02	I-135
XE-133	= 2.205E-04	I-131
CS-134	= 1.967E-04	
I-134	= 1.551E-02	
I-135	= 1.592E-02	

Interference correction summary
Sample ID : 2 RCS Liquid

Page : 9
Acquisition date : 7-JAN-1995 00:08:46

Isotope uCi/cc Corrections applied BPS : below peak sensitivity

XE-135 = 1.216E-03

XE-135M = 0.000E+00 bps: I-135

CS-137 = 1.436E-04

CS-138 = 4.521E-02

Cs-137eq= 2.322E-01

Interference report Completed

Fission Product Report

Sample ID : 2 RCS Liquid

Sampled : 6-JAN-1995 23:00:00

Acquired: 7-JAN-1995 00:08:46

Nuclide	Activity
I-131	2.716E-03 uCi/ml
I-132	1.440E-02 uCi/ml
I-133	1.123E-02 uCi/ml
I-134	1.551E-02 uCi/ml
I-135	1.592E-02 uCi/ml
Cs-134	1.967E-04 uCi/ml
Cs-136	0.000E+00 uCi/ml
Cs-137	1.436E-04 uCi/ml
I-131DE	7.871E-03 uCi/ml
I-131/I-133 ratio	2.419E-01
Cs-134/Cs-137 ratio	1.370E+00
Cs-136/Cs-137 ratio	N/A....

RCS Boron : ppm

Entergy Operations : ANO - Nuclear Chemistry Department - 23-JAN-1996 13:16

Main Spectra: 95-00158

Bkg Spectra : 95-00150

Sample date : 7-JAN-1995 01:30:00 Isolation date : 7-JAN-1995 01:30:00
Sample ID : 2 RCS Liquid Sample Quantity : 1.00000E+00 ml
Comments : SHUTDOWN SAMPLES
Geometry : Table 202 60 ml bottle CAVE 2 SHELF 2

Calib date : 6-JAN-1995 22:40:54 Acquisition date : 7-JAN-1995 02:40:02
keV/channel : 4.99248E-01 Elapsed live time: 0 00:30:00.00
offset : -2.51514E-01 Percent deadtime : 3.8%

Decay limit : 8.00000 Peak Sensitivity : 3.00000
Abundance : 30.00000 Energy tolerance : 1.50000
Library : Libark Nuclear Chemist : THORNTON

Peak Search performed from channel : 100 to 4050

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	67.14	1168	24478	1.48	134.98	132	6	21.4	2.39E+00	
2	72.82	4901	37603	1.43	146.37	142	15	7.4	2.57E-01	
2	75.05*	9341	37799	1.43	150.82	142	15	3.9		
1	80.22*	12911	41874	1.40	161.19	157	10	3.1	7.48E-01	XE-133 I-131 XE-133
4	84.92*	4547	33699	1.66	170.59	167	12	7.2	9.51E-01	
4	87.33*	1460	34064	1.32	175.42	167	12	22.3		CS-136 CD-109
1	140.64	1923	46851	1.23	282.22	279	8	19.6	2.46E-01	TC-99M MO-99
1	176.91	2955	48809	1.48	354.86	352	7	12.5	1.68E+00	CS-136 I-131
1	220.48	4365	42391	1.46	442.13	439	8	8.3	7.21E-01	I-135
1	249.69*	8571	39528	1.55	500.64	496	10	4.5	5.82E-01	XE-135
1	262.71	3720	31724	1.47	526.72	523	9	8.8	1.70E+00	I-132 I-133 CD-113M
1	273.51	1951	26034	2.45	548.34	545	8	14.5	2.17E+00	CS-136
2	284.21	27951	27814	1.52	569.78	563	20	1.2	2.39E+00	I-131 I-132
2	288.34	5283	27696	1.54	578.06	563	20	5.9		I-135
1	325.71	1040	22702	1.39	652.90	650	8	25.2	1.09E+00	I-131
1	340.33	3516	24897	1.57	682.18	678	9	8.3	1.75E+00	CS-136
1	364.30	299502	37889	1.55	730.21	721	18	0.2	1.46E+01	I-131
1	387.63	681	12629	1.31	776.93	774	8	28.8	3.75E+00	
1	417.47	5706	14448	1.64	836.69	832	10	4.2	9.00E-01	I-135
1	422.74	830	9714	1.33	847.27	844	7	20.1	1.15E+00	I-133
4	429.97	710	10541	2.00	861.73	858	15	25.5	2.45E+00	I-135
4	433.19	1293	13279	2.30	868.20	858	15	17.0		I-134 I-135
1	451.60	586	11930	1.81	905.07	901	9	33.7	1.51E+00	
1	488.00	672	9961	2.52	977.98	974	9	27.1	4.54E-01	I-134
4	502.94	1502	13759	2.15	1007.89	1001	30	16.6	3.11E+00	I-131
4	505.63	4127	10621	1.66	1013.30	1001	30	5.0		I-132

Post-NID Peak Search Report (continued)
Sample ID : 2 RCS Liquid

Page : 2
Acquisition date : 7-JAN-1995 02:40:02

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	510.37*	10064	13910	2.10	1022.78	1001	30	2.6		CO-58
3	522.40	13373	10297	1.68	1046.87	1041	28	1.6	3.59E+00	TE-132
										I-132
3	526.40	14221	12093	1.95	1054.88	1041	28	2.5		I-135
										XE-135M
3	529.62	23650	9210	1.66	1061.35	1041	28	0.2		I-133
										I-135
1	535.74	1521	9735	1.79	1073.59	1070	12	13.3	4.30E-01	
1	546.35	9268	9974	1.67	1094.85	1089	13	2.4	1.56E+00	I-135
										I-132
1	562.79	726	6598	1.94	1127.77	1124	9	20.6	7.07E-01	CS-134
										SB-122
1	569.01*	1272	7126	1.52	1140.24	1136	10	12.7	1.26E+00	CS-134
1	604.44	8031	7804	1.73	1211.20	1205	13	2.6	1.53E+00	CS-134
8	617.74	1613	6626	1.92	1237.85	1229	20	10.6	8.01E-01	I-133
8	620.76	1924	5429	1.92	1243.89	1229	20	7.7		AG-110M
										I-132
										I-134
										RU-106
1	629.92	9988	6930	1.71	1262.24	1255	13	2.0	1.36E+00	I-134
										TE-132
										I-132
1	636.71	17664	6814	1.70	1275.85	1269	13	1.2	1.23E+00	I-131
1	642.62	521	4379	1.71	1287.68	1284	9	23.5	1.59E+00	LA-142
1	650.08	2425	7585	2.09	1302.62	1294	16	8.3	3.59E+00	I-135
										I-132
1	661.36	8950	5947	1.67	1325.22	1320	11	2.0	1.73E+00	CS-137
7	667.41	69417	4856	1.77	1337.34	1331	20	0.4	9.05E+00	TE-132
										I-132
7	670.27	7640	6004	3.50	1343.06	1331	20	4.2		I-132
										I-132
1	679.85	1742	5866	2.18	1362.24	1353	15	9.9	3.32E+00	I-133
1	706.37	3956	5268	2.06	1415.38	1408	15	4.3	2.20E+00	AG-110M
										I-133
3	722.60	4306	3740	1.86	1447.88	1441	25	3.1	5.64E+00	I-131
3	726.90	4532	4737	2.39	1456.50	1441	25	3.6		I-132
										I-132
1	739.28	1375	3276	1.90	1481.30	1476	10	8.4	9.80E-01	I-134
										MO-99
1	743.01	318	2650	1.67	1488.77	1486	8	28.9	8.87E-01	ZR-97
										AG-110M
4	768.13	1436	4943	2.62	1539.07	1530	24	13.8	4.36E+00	I-134
										I-133
4	772.35	47987	3396	1.84	1547.54	1530	24	0.5		TE-132
										I-132
1	780.27	601	2642	1.52	1563.40	1559	9	16.2	9.01E-01	I-132
1	784.88	594	2365	2.27	1572.64	1569	9	15.6	1.27E+00	
1	795.55	6108	3961	1.87	1594.00	1587	15	2.7	2.52E+00	CS-134
1	801.76	923	2529	2.85	1606.44	1602	10	10.9	3.67E+00	CS-134

Post-NID Peak Search Report (continued)
Sample ID : 2 RCS Liquid

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It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	811.70	10287	5144	5.64	1626.35	1615	19	1.9	2.01E+02	CO-58 I-132 XE-135
1	818.26	4353	3718	1.91	1639.49	1633	14	3.4	2.71E+00	AG-110M CS-136
1	836.59	5821	3572	1.91	1676.21	1669	14	2.5	7.97E-01	I-135
1	846.81	2104	3142	2.01	1696.67	1690	13	5.9	2.37E-01	MN-56 CO-56 I-134
1	856.09	2675	3365	2.05	1715.27	1708	14	5.0	5.55E-01	I-133 I-134
1	862.80	422	2907	2.37	1728.71	1723	12	26.4	1.97E+00	CO-58
1	875.14	9261	4144	2.00	1753.42	1746	17	1.9	3.89E+00	I-133
1	883.80*	1281	3470	1.81	1770.77	1763	14	10.2	5.13E-01	I-134 AG-110M
1	909.95	1034	2933	2.27	1823.14	1818	12	11.0	1.75E+00	I-132 I-133
1	927.35*	435	2324	3.19	1858.00	1853	11	21.9	1.48E+00	
1	954.37	9443	3294	1.95	1912.12	1905	16	1.7	1.62E+00	TE-132 I-132
1	972.00	1805	3042	2.11	1947.43	1941	16	7.4	1.24E+00	I-135
1	984.18	517	2220	2.87	1971.84	1966	12	18.9	9.35E-01	
4	1035.07	351	1786	2.77	2073.76	2069	20	22.4	1.72E+00	
4	1038.65	6040	2276	1.94	2080.93	2069	20	2.1		CO-56 CS-134 I-135 I-134
2	1047.93	2887	2031	2.07	2099.52	2092	22	3.7	1.46E+00	CS-136
2	1052.17	890	1783	1.86	2108.01	2092	22	10.2		I-133
1	1060.03	271	1687	2.07	2123.75	2119	11	30.1	1.11E+00	
1	1072.65	273	1744	2.12	2149.03	2143	12	32.0	5.56E-01	I-134
1	1101.51	1078	1544	1.84	2206.84	2201	12	8.1	9.41E-01	I-135
1	1123.83	2514	1556	2.12	2251.55	2245	14	4.0	1.48E+00	I-135
2	1131.42*	16099	1267	2.08	2266.75	2259	27	0.9	2.45E+00	I-135
2	1135.93	1645	1221	2.16	2275.79	2259	27	6.2		I-132 I-134
1	1143.62	808	1028	2.30	2291.19	2286	10	8.2	3.02E+00	I-132
1	1148.52	157	965	1.75	2301.00	2297	9	36.0	1.59E+00	ZR-97
1	1157.89	174	1017	1.83	2319.78	2315	10	35.3	1.23E+00	
3	1168.78	812	1394	2.66	2341.59	2332	25	11.0	1.35E+00	CS-134 I-135
3	1173.10	574	943	1.91	2350.24	2332	25	11.3		I-132 CO-60
9	1236.12	3014	1053	2.43	2476.46	2466	26	3.0	3.47E+00	CS-136 I-133
9	1240.45	544	758	1.79	2485.15	2466	26	11.2		I-135
1	1260.32	19224	1563	2.18	2524.94	2514	21	0.9	3.62E+00	I-135
4	1290.52	532	788	2.35	2585.43	2579	30	11.1	1.60E+01	I-132 FE-59
4	1298.05	3999	750	2.24	2600.52	2579	30	2.2		I-133
1	1317.63	97	414	1.84	2639.74	2636	8	39.4	3.26E+00	

Post-NID Peak Search Report (continued)
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It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	1365.88	157	412	2.07	2736.38	2732	27	25.4	1.80E+00	CS-134
4	1368.32	582	667	2.11	2741.26	2732	27	11.0		I-135
										NA-24
4	1371.89	964	716	2.25	2748.41	2732	27	7.1		I-132
1	1398.51	3011	966	2.19	2801.73	2793	20	3.2	1.29E+00	TE-132
										I-132
1	1442.21	663	694	2.67	2889.26	2883	13	9.2	1.63E+00	I-132
1	1448.40	181	637	2.73	2901.68	2896	12	28.9	4.97E-01	
1	1457.53	5231	961	2.33	2919.95	2911	20	2.0	1.62E+00	I-135
1	1502.73	654	590	2.50	3010.49	3003	16	9.3	1.17E+00	I-135
1	1566.49	752	511	2.48	3138.20	3130	20	8.6	1.12E+00	I-135
1	1593.02	58	153	2.25	3191.34	3188	8	39.8	9.53E-01	
1	1678.17	5206	263	2.39	3361.90	3350	21	1.6	4.84E+00	I-135
1	1706.57	2202	251	2.47	3418.79	3411	18	2.8	1.89E+00	I-135
1	1791.38	4074	255	2.52	3588.66	3578	24	1.9	3.94E+00	I-135
1	1806.41	77	100	2.36	3618.77	3614	12	30.5	1.13E+00	I-134
1	1830.63	321	83	2.81	3667.28	3657	17	10.0	2.04E+00	I-135
1	1836.18	107	104	2.27	3678.41	3674	15	23.8	6.18E-01	RB-88
										Y-88
1	1898.29	31	42	2.46	3802.80	3799	9	44.6	1.20E+00	
1	1921.07	422	86	2.77	3848.44	3838	17	7.5	2.03E+00	I-132
1	1927.72	146	57	2.54	3861.76	3856	12	12.5	1.61E+00	
1	2002.42	360	82	2.91	4011.38	3999	22	8.2	8.98E-01	I-132

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig	Err
NA-24	AP	1368.55	582.	100.00*	8.469E-04	1.102E-02	1.212E-03	
CO-56	AP	846.75	2104.	99.99	1.158E-03	2.731E-02	1.612E-03	
		1037.83	6040.	14.00	1.004E-03	6.454E-01	1.333E-02	
		1771.49	0.	15.70*	1.004E-03	0.000E+00	0.000E+00	
MN-56	AP	846.60	2104.	99.00	1.158E-03	4.044E-02	2.388E-03	
		1811.20	0.	27.20*	1.158E-03	0.000E+00	0.000E+00	
CO-58	AP	511.00	10064.	30.00	1.665E-03	3.026E-01	7.910E-03	
		810.75	10287.	99.45*	1.196E-03	1.299E-01	2.466E-03	
		863.94	422.	0.69	1.141E-03	8.047E-01	2.122E-01	
FE-59	AP	1099.22	0.	56.50*	1.141E-03	0.000E+00	0.000E+00	
		1291.56	532.	43.20	8.799E-04	2.104E-02	2.334E-03	
CO-60	AP	1173.23	574.	99.86*	9.257E-04	9.322E-03	1.051E-03	
RB-88	FP	898.03	0.	14.50*	9.257E-04	0.000E+00	0.000E+00	
		1836.00	107.	22.10	6.768E-04	2.835E-01	6.742E-02	
Y-88	FP	898.02	0.	94.00*	6.768E-04	0.000E+00	0.000E+00	
		1836.01	107.	99.36	6.768E-04	2.388E-03	5.677E-04	
ZR-97	FP	743.36	318.	98.00*	1.279E-03	4.040E-03	1.166E-03	
		1147.95	157.	2.70	9.384E-04	9.898E-02	3.567E-02	
MO-99	FP	140.51	1923.	90.90	3.225E-03	1.000E-02	1.960E-03	
		739.47	1375.	13.00*	1.284E-03	1.255E-01	1.048E-02	
TC-99M	FP	140.51	1923.	89.30*	3.225E-03	1.018E-02	1.995E-03	
RU-106	FP	621.80	1924.	9.81*	1.460E-03	2.018E-01	1.552E-02	
CD-109	FP	88.04	1460.	3.79*	2.842E-03	2.036E-01	4.540E-02	
AG-110M	AP	620.35	1924.	2.78	1.460E-03	7.128E-01	5.483E-02	

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
AG-110M	AP	706.67	3956.	16.74	1.330E-03	2.668E-01	1.143E-02
		744.26	318.	4.66	1.279E-03	8.010E-02	2.311E-02
		818.02	4353.	7.32	1.189E-03	7.510E-01	2.550E-02
		884.67	1281.	72.86*	1.120E-03	2.358E-02	2.396E-03
CD-113M	FP	263.70	3720.	0.01*	2.450E-03	3.800E+02	3.351E+01
SB-122	AP	564.08	726.	71.00*	1.560E-03	9.991E-03	2.061E-03
I-131	HFP	80.18	12911.	2.62	2.627E-03	2.830E+00	8.807E-02
		177.21	2955.	0.27	3.049E-03	5.517E+00	6.902E-01
		284.29	27951.	6.06	2.357E-03	2.954E+00	3.638E-02
		325.78	1040.	0.25	2.194E-03	2.850E+00	7.192E-01
		364.48	299502.	81.24*	2.071E-03	2.686E+00	6.408E-03
		502.99	1502.	0.36	1.682E-03	3.734E+00	6.198E-01
		636.97	17664.	7.27	1.436E-03	2.555E+00	3.126E-02
		722.89	4306.	1.80	1.307E-03	2.757E+00	8.641E-02
		262.70	3720.	1.44	2.450E-03	2.397E+00	2.114E-01
		284.80	27951.	0.79	2.357E-03	3.412E+01	4.202E-01
		505.90	4127.	5.00	1.676E-03	1.120E+00	5.564E-02
		522.65	13373.	16.10	1.640E-03	1.151E+00	1.871E-02
		547.10	9268.	1.25	1.591E-03	1.059E+01	2.584E-01
		621.20	1924.	1.60	1.460E-03	1.872E+00	1.440E-01
		630.22	9988.	13.70	1.446E-03	1.146E+00	2.290E-02
		650.60	2425.	2.70	1.415E-03	1.442E+00	1.195E-01
I-132	HFP	667.69	69417.	98.70*	1.389E-03	1.151E+00	5.022E-03
		669.80	7640.	5.00	1.385E-03	2.508E+00	1.045E-01
		671.60	7640.	5.20	1.385E-03	2.412E+00	1.005E-01
		727.20	4533.	5.40	1.301E-03	1.467E+00	5.334E-02
		728.10	4533.	2.20	1.301E-03	3.601E+00	1.309E-01
		772.61	47987.	76.20	1.242E-03	1.153E+00	5.961E-03
		780.20	601.	1.23	1.232E-03	9.009E-01	1.457E-01
		812.20	10287.	5.60	1.196E-03	3.491E+00	6.627E-02
		910.30	1034.	0.92	1.097E-03	2.330E+00	2.560E-01
		954.55	9443.	18.10	1.063E-03	1.116E+00	1.911E-02
		1136.03	1645.	3.00	9.455E-04	1.318E+00	8.177E-02
		1143.40	808.	1.40	9.411E-04	1.393E+00	1.148E-01
		1173.20	574.	1.10	9.257E-04	1.281E+00	1.444E-01
		1290.70	532.	1.14	8.799E-04	1.206E+00	1.338E-01
		1372.07	964.	2.50	8.452E-04	1.037E+00	7.377E-02
		1398.57	3011.	7.10	8.324E-04	1.158E+00	3.747E-02
TE-132	FP	1442.56	663.	1.42	8.131E-04	1.306E+00	1.197E-01
		522.65	13373.	16.10	1.640E-03	7.703E-01	1.252E-02
		630.22	9988.	13.70	1.446E-03	7.666E-01	1.532E-02
		667.69	69417.	98.70	1.389E-03	7.699E-01	3.359E-03
I-133	HFP	772.61	47987.	76.20*	1.242E-03	7.710E-01	3.988E-03
		954.55	9443.	18.10	1.063E-03	7.466E-01	1.279E-02
		1398.57	3011.	7.10	8.324E-04	7.746E-01	2.507E-02
		263.40	3720.	0.44	2.450E-03	5.471E+00	4.826E-01
		422.90	830.	0.26	1.897E-03	2.626E+00	5.283E-01
		529.50	236593.	87.50*	1.625E-03	2.623E+00	5.806E-03
		618.00	1613.	0.37	1.465E-03	4.724E+00	5.011E-01
		680.80	1742.	0.77	1.370E-03	2.603E+00	2.585E-01
		707.40	3956.	1.58	1.330E-03	2.976E+00	1.276E-01
		769.10	1436.	0.47	1.247E-03	3.841E+00	5.312E-01
		856.10	2675.	1.23	1.148E-03	3.000E+00	1.491E-01
		875.30	9261.	4.55	1.129E-03	2.843E+00	5.460E-02
		910.50	1034.	0.38	1.097E-03	3.862E+00	4.243E-01

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-133	HFP	1052.80	890.	0.50	9.956E-04	2.825E+00	2.892E-01
		1237.50	3014.	1.58	8.991E-04	3.356E+00	1.021E-01
		1298.90	3999.	2.19	8.772E-04	3.285E+00	7.241E-02
XE-133	FG	79.62	12911.	0.22	2.627E-03	3.380E+01	1.052E+00
		81.00	12911.	37.10*	2.627E-03	2.004E-01	6.238E-03
CS-134	FP	563.26	726.	8.38	1.560E-03	8.337E-02	1.720E-02
		569.29	1272.	15.43	1.548E-03	7.999E-02	1.018E-02
		604.66	8031.	97.60	1.486E-03	8.313E-02	2.138E-03
		795.76	6108.	85.40*	1.214E-03	8.842E-02	2.344E-03
		801.84	923.	8.73	1.207E-03	1.315E-01	1.439E-02
		1038.50	6040.	1.00	1.004E-03	9.031E+00	1.866E-01
		1167.86	812.	1.80	9.278E-04	7.301E-01	8.018E-02
		1365.13	157.	3.04	8.481E-04	9.160E-02	2.323E-02
		433.30	1293.	4.45	1.865E-03	7.180E-01	1.220E-01
		488.90	672.	1.61	1.716E-03	1.122E+00	3.038E-01
I-134	HFP	621.75	1924.	10.90	1.460E-03	5.571E-01	4.285E-02
		628.60	9988.	2.28	1.446E-03	1.396E+01	2.790E-01
		739.30	1375.	0.60	1.284E-03	8.224E+00	6.867E-01
		766.68	1436.	3.83	1.247E-03	1.385E+00	1.916E-01
		847.03	2104.	96.00*	1.158E-03	8.725E-02	5.152E-03
		857.28	2675.	6.60	1.148E-03	1.628E+00	8.093E-02
		884.08	1281.	66.00	1.120E-03	7.989E-02	8.116E-03
		1040.00	6040.	2.00	1.004E-03	1.386E+01	2.863E-01
		1072.53	273.	14.30	9.829E-04	8.937E-02	2.860E-02
		1136.12	1645.	9.15	9.455E-04	8.761E-01	5.436E-02
		1806.90	77.	5.60	6.853E-04	9.225E-02	2.817E-02
		220.50	4365.	1.75	2.693E-03	1.620E+00	1.350E-01
		288.45	5283.	3.09	2.340E-03	1.274E+00	7.469E-02
		417.63	5706.	3.52	1.914E-03	1.478E+00	6.175E-02
		429.93	710.	0.30	1.875E-03	2.176E+00	5.543E-01
I-135	HFP	433.74	1293.	0.55	1.865E-03	2.190E+00	3.721E-01
		526.56	14221.	13.33	1.631E-03	1.140E+00	2.838E-02
		530.80	236593.	0.03	1.625E-03	8.060E+03	1.784E+01
		546.56	9268.	7.12	1.591E-03	1.426E+00	3.480E-02
		649.85	2425.	0.45	1.415E-03	6.569E+00	5.445E-01
		836.80	5821.	6.66	1.169E-03	1.303E+00	3.311E-02
		972.61	1805.	1.20	1.050E-03	2.496E+00	1.836E-01
		1038.76	6040.	7.92	1.004E-03	1.324E+00	2.735E-02
		1101.58	1078.	1.60	9.655E-04	1.215E+00	9.889E-02
		1124.00	2514.	3.60	9.524E-04	1.277E+00	5.094E-02
		1131.51	16099.	22.51	9.480E-04	1.315E+00	1.209E-02
		1169.04	812.	0.87	9.278E-04	1.750E+00	1.921E-01
		1240.00	544.	0.90	8.975E-04	1.174E+00	1.317E-01
		1260.41	19224.	28.60*	8.905E-04	1.316E+00	1.174E-02
		1367.89	582.	0.61	8.469E-04	1.977E+00	2.174E-01
		1457.56	5231.	8.64	8.067E-04	1.309E+00	2.635E-02
		1502.79	654.	1.07	7.882E-04	1.350E+00	1.252E-01
		1566.41	752.	1.29	7.636E-04	1.334E+00	1.148E-01
		1678.03	5206.	9.52	7.247E-04	1.315E+00	2.169E-02
		1706.46	2202.	4.09	7.155E-04	1.312E+00	3.658E-02
		1791.20	4074.	7.69	6.896E-04	1.339E+00	2.538E-02
		1830.69	321.	0.58	6.783E-04	1.427E+00	1.433E-01
		249.79	8571.	90.30*	2.512E-03	6.325E-02	2.839E-03
		812.63	10287.	0.07	1.196E-03	2.045E+02	3.882E+00
		526.81	14221.	80.00*	1.631E-03	6.794E+00	1.691E-01
XE-135	FG						
XE-135M	FG						

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
CS-136	FP	86.29	1460.	6.33	2.842E-03	1.223E-01	2.727E-02
		176.56	2955.	13.60	3.049E-03	1.073E-01	1.343E-02
		273.65	1951.	12.70	2.403E-03	9.631E-02	1.396E-02
		340.57	3516.	46.90*	2.144E-03	5.267E-02	4.353E-03
		818.50	4353.	100.00	1.189E-03	5.516E-02	1.873E-03
		1048.07	2887.	80.00	9.983E-04	5.446E-02	2.007E-03
		1235.34	3014.	19.80	8.991E-04	2.550E-01	7.762E-03
CS-137	FP	661.62	8950.	84.62*	1.398E-03	1.136E-01	2.298E-03
LA-142	FP	641.17	521.	52.50*	1.427E-03	1.978E-02	4.639E-03

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	67.14	1168	24478	1.48	134.98	132	6	6.49E-01	21.4	2.10E-01	
2	72.82	4901	37603	1.43	146.37	142	15	2.72E+00	7.4	2.35E-01	
2	75.05	9341	37799	1.43	150.82	142	15	5.19E+00	3.9	2.44E-01	T
1	387.63	681	12629	1.31	776.93	774	8	3.78E-01	28.8	2.00E-01	
1	451.60	586	11930	1.81	905.07	901	9	3.26E-01	33.7	1.81E-01	
1	535.74	1521	9735	1.79	1073.59	1070	12	8.45E-01	13.3	1.61E-01	
1	784.88	594	2365	2.27	1572.64	1569	9	3.30E-01	15.6	1.23E-01	T
1	927.35	435	2324	3.19	1858.00	1853	11	2.42E-01	21.9	1.08E-01	
1	984.18	517	2220	2.87	1971.84	1966	12	2.87E-01	18.9	1.04E-01	
4	1035.07	351	1786	2.77	2073.76	2069	20	1.95E-01	22.4	1.01E-01	
1	1060.03	271	1687	2.07	2123.75	2119	11	1.51E-01	30.1	9.91E-02	
1	1157.89	174	1017	1.83	2319.78	2315	10	9.64E-02	35.3	9.33E-02	
1	1317.63	97	414	1.84	2639.74	2636	8	5.39E-02	39.4	8.70E-02	
1	1448.40	181	637	2.73	2901.68	2896	12	1.01E-01	28.9	8.10E-02	
1	1593.02	58	153	2.25	3191.34	3188	8	3.22E-02	39.8	7.54E-02	
1	1898.29	31	42	2.46	3802.80	3799	9	1.71E-02	44.6	0.00E+00	T
1	1927.72	146	57	2.54	3861.76	3856	12	8.14E-02	12.5	0.00E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of peaks in spectrum 110
Number of peaks identified by NID 96 87.27%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
XE-133	FG	5.29D	1.008	2.004E-01	6.238E-03
XE-135	FG	9.08H	1.115	6.325E-02	2.839E-03
XE-135M	FG	15.60M	41.532	6.794E+00	1.691E-01
I-131	HFP	8.04D	1.005	2.686E+00	6.408E-03
I-132	HFP	2.38H	1.514	1.151E+00	5.022E-03
I-133	HFP	20.30H	1.050	2.623E+00	5.806E-03
I-134	HFP	52.60M	3.070	8.725E-02	5.152E-03
I-135	HFP	6.61H	1.161	1.316E+00	1.174E-02
RB-88	FP	17.80M	26.422	0.000E+00	0.000E+00
Y-88	FP	106.60D	1.000	0.000E+00	0.000E+00
ZR-97	FP	16.80H	1.061	4.040E-03	1.166E-03
MO-99	FP	2.76D	1.015	1.255E-01	1.048E-02
TC-99M	FP	2.76D	1.015	1.018E-02	1.995E-03
RU-106	FP	368.20D	1.000	2.018E-01	1.552E-02

Summary of Nuclide Activity
Sample ID : 2 RCS Liquid

Page : 8
Acquisition date : 7-JAN-1995 02:40:02

Total number of peaks in spectrum 110
Number of peaks identified by NID 96 87.27%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
CD-109	FP	453.28D	1.000	2.036E-01	4.540E-02
CD-113M	FP	14.60Y	1.000	3.800E+02	3.351E+01
TE-132	FP	3.25D	1.013	7.710E-01	3.988E-03
CS-134	FP	2.06Y	1.000	8.842E-02	2.344E-03
CS-136	FP	12.98D	1.003	5.267E-02	4.353E-03
CS-137	FP	30.10Y	1.000	1.136E-01	2.298E-03
LA-142	FP	1.54H	1.895	1.978E-02	4.639E-03
NA-24	AP	15.03H	1.068	1.102E-02	1.212E-03
CO-56	AP	77.30D	1.001	0.000E+00	0.000E+00
MN-56	AP	2.58H	1.467	0.000E+00	0.000E+00
CO-58	AP	70.78D	1.001	1.299E-01	2.466E-03
FE-59	AP	45.10D	1.001	0.000E+00	0.000E+00
CO-60	AP	5.27Y	1.000	9.322E-03	1.051E-03
AG-110M	AP	249.90D	1.000	2.358E-02	2.396E-03
SB-122	AP	2.70D	1.015	9.991E-03	2.061E-03

Interference correction summary

Isotope	uCi/cc	Corrections applied BPS : below peak sensitivity
NA-24	= 3.682E-03	I-135
CO-58	= 8.706E-02	I-132 XE-135
CO-60	= 0.000E+00	bps: I-132
ZR-97	= 4.040E-03	
MO-99	= 0.124	I-134
TC-99M	= 1.018E-02	
RU-106	= 0.000E+00	bps: I-132 I-134
CD-109	= 0.000E+00	bps: CS-136
AG-110M	= 0.000E+00	bps: I-134
CD-113M	= 0.000E+00	bps: I-132 I-133
SB-122	= 0.000E+00	bps: CS-134
I-131	= 2.69	
I-132	= 1.15	

Interference correction summary
Sample ID : 2 RCS Liquid

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Acquisition date : 7-JAN-1995 02:40:02

Isotope uCi/cc Corrections applied BPS : below peak sensitivity

TE-132 = 0.771

I-133 = 2.62 I-135

XE-133 = 0.000E+00 bps: I-131

CS-134 = 8.842E-02

I-134 = 8.725E-02

I-135 = 1.32

XE-135 = 6.325E-02

XE-135M = 0.000E+00 bps: I-135

CS-136 = 5.267E-02

CS-137 = 0.114

LA-142 = 1.978E-02

Cs-137eq= 1.326E+01

Interference report Completed

Fission Product Report

Sample ID : 2 RCS Liquid

Sampled : 7-JAN-1995 01:30:00

Acquired: 7-JAN-1995 02:40:02

Nuclide	Activity
I-131	2.686E+00 uCi/ml
I-132	1.151E+00 uCi/ml
I-133	2.623E+00 uCi/ml
I-134	8.725E-02 uCi/ml
I-135	1.316E+00 uCi/ml
Cs-134	8.842E-02 uCi/ml
Cs-136	5.267E-02 uCi/ml
Cs-137	1.136E-01 uCi/ml
I-131DE	3.549E+00 uCi/ml
I-131/I-133 ratio	1.024E+00
Cs-134/Cs-137 ratio	7.786E-01
Cs-136/Cs-137 ratio	4.637E-01

RCS Boron : ppm

Enterger Operations : ANO - Nuclear Chemistry Department - 23-JAN-1996 13:18

Main Spectra: 95-00197

Bkg Spectra : 95-00150

Sample date : 7-JAN-1995 16:20:00 Isolation date : 6-JAN-1995 23:36:00
Sample ID : 2 RCS Liquid Sample Quantity : 1.00000E+00 ml
Comments : IDE
Geometry : Table 201 60 ml bottle CAVE 2 SHELF 1

Calib date : 6-JAN-1995 22:40:54 Acquisition date : 7-JAN-1995 17:33:56
keV/channel : 4.99248E-01 Elapsed live time: 0 00:30:00.00
offset : -2.51514E-01 Percent deadtime : 2.5%

Decay limit : 8.00000 Peak Sensitivity : 3.00000
Abundance : 30.00000 Energy tolerance : 1.50000
Library : Libark Nuclear Chemist : GALLAGHER

Peak Search performed from channel : 100 to 4050

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	67.02	1628	23361	1.11	134.75	131	8	16.4	1.61E+00	
3	72.73	2212	22937	2.04	146.18	142	25	12.1	1.16E+01	
3	75.19*	4264	25604	1.58	151.10	142	25	7.0		
3	80.31*	19966	25025	1.44	161.36	142	25	1.6		XE-133 I-131 XE-133
3	84.64*	1243	16683	1.67	170.04	167	11	16.9	3.73E+00	
3	86.44*	2093	25347	2.49	173.65	167	11	14.0		CS-136
1	140.58	2054	25813	1.78	282.09	279	7	13.2	7.3E+00	TC-99M MO-99
1	153.50	1987	51554	1.53	307.97	304	11	22.1	1.55E+00	CS-136
1	176.92	4989	39098	1.68	354.88	351	9	7.3	1.03E+00	CS-136 I-131
1	206.65	893	22219	1.11	414.42	412	6	26.7	6.70E+00	
1	220.67	1306	22589	1.65	442.51	440	8	20.2	1.15E+00	I-135
1	249.75*	2620	17681	1.36	500.75	498	8	9.1	1.44E+00	XE-135
1	262.71	1285	16920	1.15	526.71	524	8	17.8	2.25E+00	I-132 I-133 CD-113M
1	273.53	2075	20279	1.64	548.38	544	10	13.0	3.07E-01	CS-136
1	284.25	35687	23864	1.51	569.85	563	12	1.0	1.25E+00	I-131 I-132
1	288.35	1316	15854	1.32	578.08	575	8	17.1	4.69E-01	I-135
1	325.30	1882	17933	2.24	652.09	649	9	13.0	5.23E+00	I-131
1	340.47	4892	20277	1.43	682.48	678	10	5.6	6.09E-01	CS-136
1	364.35	401015	25102	1.55	730.31	722	17	0.2	9.17E+00	I-131
1	417.48	2117	8358	1.56	836.71	831	11	8.7	6.43E-01	I-135
1	422.89	1050	6727	2.28	847.55	844	9	14.4	1.64E+00	I-133 BA-140
1	433.91	531	6255	2.71	869.63	866	9	27.4	9.27E-01	I-134 I-135
1	473.86	1099	5570	5.95	949.66	948	9	12.4	4.46E+00	SB-127 CS-134
4	502.79	1483	6058	1.79	1007.61	1002	28	10.6	2.04E+00	I-131
4	510.36*	6005	6014	1.90	1022.76	1002	28	2.8		CO-58

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	522.41	2163	5813	1.98	1046.91	1039	31	7.2	2.81E+01	TE-132
3	526.04	3316	5757	1.96	1054.18	1039	31	6.3		I-132 I-135
3	529.66	198462	4258	1.68	1061.43	1039	31	0.2		XE-135M I-133 I-135
1	536.27	1374	4262	2.72	1074.65	1070	12	9.9	2.26E+00	BA-140
1	546.31	2228	4051	1.51	1094.78	1089	12	6.1	3.09E-01	I-135 I-132
1	563.06	1172	3459	2.08	1128.32	1124	11	10.2	2.31E+00	CS-134 SB-122
1	569.06*	2027	3215	1.79	1140.33	1135	10	5.7	3.60E+00	CS-134
1	604.48	13025	4720	1.73	1211.28	1203	16	1.5	1.46E+00	SB-127 CS-134
1	617.67	1173	3820	1.84	1237.71	1232	14	11.7	8.15E-01	I-133
1	629.99	1079	2578	1.64	1262.38	1259	10	9.3	9.29E-01	I-134 TE-132 I-132
1	636.75	23184	3470	1.75	1275.91	1269	14	0.9	1.25E+00	I-131
1	642.42	854	2376	2.04	1287.27	1283	11	11.6	1.73E+00	LA-142
1	650.16	519	2970	3.01	1302.77	1295	14	22.6	1.53E+00	I-135 I-132
1	661.38	15854	3468	1.75	1325.26	1316	16	1.2	1.47E+00	CS-137
1	667.50	9129	3195	1.86	1337.51	1332	16	1.8	1.41E+01	TE-132 I-132
1	680.06	1258	2405	1.83	1362.68	1355	14	8.6	1.83E+00	I-133
1	706.39	2772	2105	1.83	1415.40	1408	15	4.1	1.01E+00	I-133
5	722.64	5366	1398	1.86	1447.97	1439	27	1.9	1.90E+00	I-131 SB-127
5	726.78	646	1693	2.31	1456.26	1439	27	16.2		I-132 I-132
4	739.29	676	1766	2.31	1481.30	1474	23	13.7	1.19E+00	I-134 MO-99
4	743.42	421	1724	2.91	1489.58	1474	23	23.1		ZR-97
1	756.11	250	1278	2.88	1515.00	1509	11	28.4	6.21E-01	ZR-95
5	768.14	857	1520	1.92	1539.11	1530	24	10.4		I-134 I-133
5	772.39	5697	1398	1.84	1547.62	1530	24	1.9		TE-132 I-132
1	776.65	170	1020	1.47	1556.15	1553	8	36.3	2.01E+00	MO-99
3	785.02	266	700	2.24	1572.92	1569	43	18.1	2.51E+00	SB-127
3	795.59	9763	1095	1.88	1594.09	1569	43	1.2		CS-134
3	801.62	1058	1189	1.98	1606.16	1569	43	7.5		CS-134
1	810.54	4796	1773	2.06	1624.03	1617	15	2.4	1.57E+00	I-132 CO-58
1	818.28	6593	1905	1.96	1639.53	1632	17	2.0	2.42E+00	CS-136
1	834.90	5933	1573	3.67	1672.82	1667	17	2.0	6.47E+01	MN-54
1	846.42*	252	973	1.93	1695.89	1691	10	24.7	3.21E-01	MN-56 CO-56 I-134

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	856.06	1932	1691	1.95	1715.20	1706	19	5.6	9.61E-01	I-133
										I-134
1	875.13	7251	1644	1.92	1753.40	1744	17	1.8	1.77E+00	I-133
1	909.66	518	1449	2.52	1822.56	1812	18	18.2	1.14E+00	I-132
										I-133
1	954.35	1141	1103	2.12	1912.09	1904	15	7.2	2.61E+00	TE-132
										I-132
1	972.19	597	880	2.28	1947.81	1942	13	11.3	1.14E+00	I-135
1	1038.66	1780	1286	2.04	2080.96	2070	19	5.5	2.00E+00	CO-56
										CS-134
										I-135
										I-134
2	1047.91	4373	753	2.01	2099.47	2089	30	2.0	8.54E-01	CS-136
2	1052.13	822	717	2.19	2107.94	2089	30	9.2		I-133
1	1059.63	228	634	2.19	2122.95	2118	12	23.5	6.33E-01	
4	1099.56	228	478	2.83	2202.95	2197	21	20.9	1.62E+00	FE-59
4	1101.56	337	667	2.66	2206.94	2197	21	19.1		I-135
1	1123.97	742	581	2.24	2251.84	2244	14	7.9	9.58E-01	I-135
1	1131.43	4294	712	2.07	2266.78	2258	16	2.2	2.64E+00	I-135
2	1168.16	396	427	2.37	2340.35	2330	28	12.3	1.16E+00	CS-134
										I-135
2	1172.91	329	389	2.17	2349.86	2330	28	13.9		I-132
										CO-60
3	1236.01	2917	380	2.58	2476.25	2467	25	2.4	1.70E+00	CS-136
										I-133
3	1240.76	184	212	2.07	2485.77	2467	25	20.1		I-135
5	1260.30	5233	249	2.17	2524.89	2514	33	1.5	1.90E+00	I-135
5	1291.06	203	249	2.98	2586.51	2581	29	17.5	3.28E+00	I-132
										FE-59
5	1298.10	2918	240	2.17	2600.62	2581	29	2.2		I-133
1	1332.57	199	171	2.38	2669.66	2663	13	16.6	8.24E-01	CO-60
1	1350.29	155	203	2.36	2705.15	2699	13	20.9	1.48E+00	I-133
3	1365.21	215	319	2.16	2735.04	2729	18	19.5	2.27E+00	CS-134
3	1368.05	232	359	2.00	2740.73	2729	18	17.6		I-135
										NA-24
1	1398.89	432	215	2.76	2802.51	2796	17	9.3	2.49E+00	TE-132
										I-132
1	1457.56	1349	354	2.22	2920.02	2912	20	4.3	1.16E+00	I-135
3	1502.76	177	132	2.71	3010.55	2998	21	16.8		I-135
1	1566.42	206	103	2.58	3138.07	3132	15	14.2	1.59E+00	I-135
1	1678.14	1445	94	2.38	3361.85	3354	16	3.1	1.68E+00	I-135
1	1706.55	584	67	2.37	3418.75	3411	15	5.3	2.36E+00	I-135
1	1791.38	1169	46	2.52	3588.67	3577	23	3.4	3.29E+00	I-135
1	1831.13	91	7	2.91	3668.27	3661	14	15.4	3.40E-01	I-135
1	1866.82	41	22	2.85	3739.77	3734	16	32.5	1.09E+00	
1	1920.59	51	20	2.89	3847.46	3839	16	25.7	1.08E+00	I-132
1	2002.30	58	11	3.06	4011.14	4004	15	18.5	3.46E-01	I-132

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Page : 4
Acquisition date : 7-JAN-1995 17:33:56

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
NA-24	AP	1368.55	232.	100.00*	4.084E-03	9.135E-04	1.604E-04
MN-54	AP	834.81	5933.	99.98*	5.830E-03	1.529E-02	3.013E-04
CO-56	AP	846.75	252.	99.99	5.765E-03	6.555E-04	1.622E-04
		1037.83	1780.	14.00	4.967E-03	3.846E-02	2.101E-03
		1771.49	0.	15.70*	4.967E-03	0.000E+00	0.000E+00
MN-56	AP	846.60	252.	99.00	5.765E-03	9.870E-04	2.441E-04
		1811.20	0.	27.20*	5.765E-03	0.000E+00	0.000E+00
CO-58	AP	511.00	6005.	30.00	8.493E-03	3.541E-02	1.008E-03
		810.75	4796.	99.45*	5.970E-03	1.214E-02	2.962E-04
FE-59	AP	1099.22	228.	56.50*	4.773E-03	1.272E-03	2.660E-04
		1291.56	203.	43.20	4.264E-03	1.657E-03	2.897E-04
CO-60	AP	1173.23	329.	99.86*	4.563E-03	1.084E-03	1.505E-04
		1332.51	199.	99.98	4.168E-03	7.169E-04	1.187E-04
ZR-95	AP	756.72	250.	54.80*	6.310E-03	1.088E-03	3.038E-04
ZR-97	FP	743.36	421.	98.00*	6.396E-03	1.073E-03	2.480E-04
MO-99	FP	140.51	2054.	90.90	1.863E-02	1.850E-03	2.445E-04
		739.47	676.	13.00*	6.425E-03	1.235E-02	1.694E-03
		777.88	170.	4.37	6.177E-03	9.611E-03	3.485E-03
TC-99M	FP	140.51	2054.	89.30*	1.863E-02	1.883E-03	2.489E-04
CD-113M	FP	263.70	1285.	0.01*	1.281E-02	2.510E+01	4.464E+00
SB-122	AP	564.08	1172.	71.00*	7.907E-03	3.184E-03	3.239E-04
SB-127	FP	473.00	1099.	25.00	8.966E-03	7.448E-03	9.270E-04
		603.60	13025.	4.25	7.505E-03	6.200E-01	9.194E-03
		685.50	0.	35.70*	7.505E-03	0.000E+00	0.000E+00
		723.00	5366.	1.80	6.544E-03	6.917E-01	1.347E-02
		783.80	266.	15.00	6.124E-03	4.393E-03	7.944E-04
I-131	HFP	80.18	19966.	2.62	1.606E-02	7.160E-01	1.157E-02
		177.21	4989.	0.27	1.720E-02	1.652E+00	1.201E-01
		284.29	35687.	6.06	1.222E-02	7.276E-01	7.393E-03
		325.78	1882.	0.25	1.138E-02	9.951E-01	1.294E-01
		364.48	401015.	81.24*	1.075E-02	6.932E-01	1.263E-03
		502.99	1483.	0.36	8.585E-03	7.226E-01	7.626E-02
		636.97	23184.	7.27	7.227E-03	6.663E-01	5.701E-03
		722.89	5366.	1.80	6.544E-03	6.862E-01	1.336E-02
I-132	HFP	262.70	1285.	1.44	1.281E-02	1.612E-01	2.867E-02
		284.80	35687.	0.79	1.222E-02	8.553E+00	8.691E-02
		522.65	2163.	16.10	8.352E-03	3.723E-02	2.663E-03
		547.10	2228.	1.25	8.085E-03	5.103E-01	3.101E-02
		630.22	1079.	13.70	7.283E-03	2.503E-02	2.337E-03
		650.60	519.	2.70	7.116E-03	6.256E-02	1.415E-02
		667.69	9129.	98.70*	6.975E-03	3.069E-02	5.410E-04
		727.20	646.	5.40	6.514E-03	4.251E-02	6.884E-03
		728.10	646.	2.20	6.514E-03	1.044E-01	1.690E-02
		772.61	5697.	76.20	6.204E-03	2.789E-02	5.260E-04
		809.80	4796.	2.90	5.970E-03	6.411E-01	1.565E-02
		910.30	518.	0.92	5.447E-03	2.394E-01	4.361E-02
		954.55	1141.	18.10	5.269E-03	2.769E-02	1.992E-03
		1173.20	329.	1.10	4.563E-03	1.517E-01	2.105E-02
		1290.70	203.	1.14	4.264E-03	9.670E-02	1.691E-02
		1398.57	432.	7.10	4.011E-03	3.510E-02	3.249E-03
TE-132	FP	522.65	2163.	16.10	8.352E-03	2.448E-02	1.751E-03
		630.22	1079.	13.70	7.283E-03	1.646E-02	1.536E-03
		667.69	9129.	98.70	6.975E-03	2.017E-02	3.557E-04
		772.61	5697.	76.20*	6.204E-03	1.834E-02	3.458E-04
		954.55	1141.	18.10	5.269E-03	1.820E-02	1.309E-03

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

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Acquisition date : 7-JAN-1995 17:33:56

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
TE-132	FP	1398.57	432.	7.10	4.011E-03	2.308E-02	2.136E-03
I-133	HFP	263.40	1285.	0.44	1.281E-02	3.621E-01	6.441E-02
		422.90	1050.	0.26	9.789E-03	6.456E-01	9.303E-02
		529.50	198462.	87.50*	8.270E-03	4.333E-01	1.014E-03
		618.00	1173.	0.37	7.389E-03	6.822E-01	7.953E-02
		680.80	1258.	0.77	6.874E-03	3.753E-01	3.245E-02
		707.40	2772.	1.58	6.666E-03	4.171E-01	1.719E-02
		769.10	857.	0.47	6.231E-03	4.596E-01	4.758E-02
		856.10	1932.	1.23	5.712E-03	4.361E-01	2.450E-02
		875.30	7251.	4.55	5.611E-03	4.487E-01	7.884E-03
		910.50	518.	0.38	5.447E-03	3.906E-01	7.115E-02
		1052.80	822.	0.50	4.923E-03	5.288E-01	4.847E-02
		1237.50	2917.	1.58	4.396E-03	6.656E-01	1.571E-02
		1298.90	2918.	2.19	4.248E-03	4.960E-01	1.104E-02
		1351.00	155.	0.16	4.126E-03	3.759E-01	7.850E-02
XE-133	FG	79.62	19966.	0.22	1.606E-02	8.553E+00	1.382E-01
		81.00	19966.	37.10*	1.606E-02	5.072E-02	8.193E-04
CS-134	FP	475.35	1099.	1.46	8.966E-03	1.261E-01	1.570E-02
		563.26	1172.	8.38	7.907E-03	2.655E-02	2.701E-03
		569.29	2027.	15.43	7.846E-03	2.515E-02	1.445E-03
		604.66	13025.	97.60	7.505E-03	2.670E-02	3.959E-04
		795.76	9763.	85.40*	6.060E-03	2.833E-02	3.478E-04
		801.84	1058.	8.73	6.023E-03	3.023E-02	2.275E-03
		1038.50	1780.	1.00	4.967E-03	5.382E-01	2.939E-02
		1167.86	396.	1.80	4.576E-03	7.215E-02	8.849E-03
		1365.13	215.	3.04	4.090E-03	2.594E-02	5.047E-03
I-134	HFP	433.30	531.	4.45	9.599E-03	6.010E-02	1.646E-02
		628.60	1079.	2.28	7.283E-03	3.144E-01	2.936E-02
		739.30	676.	0.60	6.425E-03	8.487E-01	1.165E-01
		766.68	857.	3.83	6.231E-03	1.737E-01	1.798E-02
		847.03	252.	96.00*	5.765E-03	2.199E-03	5.440E-04
		857.28	1932.	6.60	5.712E-03	2.479E-01	1.392E-02
		1040.00	1780.	2.00	4.967E-03	8.671E-01	4.736E-02
I-135	HFP	220.50	1306.	1.75	1.457E-02	9.013E-02	1.818E-02
		288.45	1316.	3.09	1.212E-02	6.167E-02	1.053E-02
		417.63	2117.	3.52	9.883E-03	1.069E-01	9.266E-03
		433.74	531.	0.55	9.599E-03	1.757E-01	4.813E-02
		526.56	3316.	13.33	8.311E-03	5.252E-02	3.327E-03
		530.80	198462.	0.03	8.270E-03	1.337E+03	3.130E+00
		546.56	2228.	7.12	8.085E-03	6.793E-02	4.128E-03
		649.85	519.	0.45	7.116E-03	2.817E-01	6.372E-02
		972.61	597.	1.20	5.203E-03	1.677E-01	1.902E-02
		1038.76	1780.	7.92	4.967E-03	7.940E-02	4.336E-03
		1101.58	337.	1.60	4.767E-03	7.734E-02	1.480E-02
		1124.00	742.	3.60	4.701E-03	7.684E-02	6.077E-03
		1131.51	4294.	22.51	4.679E-03	7.154E-02	1.565E-03
		1169.04	396.	0.87	4.576E-03	1.740E-01	2.134E-02
		1240.00	184.	0.90	4.384E-03	8.174E-02	1.640E-02
		1260.41	5233.	28.60*	4.336E-03	7.406E-02	1.135E-03
		1367.89	232.	0.61	4.084E-03	1.644E-01	2.886E-02
		1457.56	1349.	8.64	3.884E-03	7.058E-02	3.020E-03
		1502.79	177.	1.07	3.792E-03	7.641E-02	1.282E-02
		1566.41	206.	1.29	3.670E-03	7.659E-02	1.090E-02
		1678.03	1445.	9.52	3.476E-03	7.660E-02	2.405E-03
		1706.46	584.	4.09	3.431E-03	7.300E-02	3.849E-03

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

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Acquisition date : 7-JAN-1995 17:33:56

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-135	HFP	1791.20	1169.	7.69	3.303E-03	8.074E-02	2.721E-03
		1830.69	91.	0.58	3.246E-03	8.483E-02	1.307E-02
XE-135	FG	249.79	2620.	90.30*	1.325E-02	3.684E-03	3.337E-04
XE-135M	FG	526.81	3316.	80.00*	8.311E-03	3.669E-01	2.324E-02
CS-136	FP	86.29	2093.	6.33	1.719E-02	2.899E-02	4.065E-03
		153.22	1987.	7.49	1.825E-02	2.190E-02	4.838E-03
		176.56	4989.	13.60	1.720E-02	3.214E-02	2.336E-03
		273.65	2075.	12.70	1.250E-02	1.969E-02	2.558E-03
		340.57	4892.	46.90*	1.112E-02	1.413E-02	7.939E-04
		818.50	6593.	100.00	5.925E-03	1.676E-02	3.307E-04
		1048.07	4373.	80.00	4.936E-03	1.668E-02	3.355E-04
		1235.34	2917.	19.80	4.396E-03	5.049E-02	1.192E-03
CS-137	FP	661.62	15854.	84.62*	7.025E-03	4.004E-02	4.658E-04
BA-140	FP	423.69	1050.	2.66	9.789E-03	6.075E-02	8.755E-03
		537.38	1374.	19.90*	8.196E-03	1.269E-02	1.256E-03
LA-142	FP	641.17	854.	52.50*	7.180E-03	6.630E-03	7.688E-04

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	67.02	1628	23361	1.11	134.75	131	8	9.04E-01	16.4	1.27E+00	
3	72.73	2212	22937	2.04	146.18	142	25	1.23E+00	12.1	1.43E+00	
3	75.19	4264	25604	1.58	151.10	142	25	2.37E+00	7.0	1.49E+00	T
3	84.64	1243	16683	1.67	170.04	167	11	6.91E-01	16.9	1.69E+00	T
1	206.65	893	22219	1.11	414.42	412	6	4.96E-01	26.7	1.54E+00	T
1	1059.63	228	634	2.19	2122.95	2118	12	1.27E-01	23.5	4.90E-01	
1	1866.82	41	22	2.85	3739.77	3734	16	2.29E-02	32.5	0.00E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of peaks in spectrum 92
Number of peaks identified by NID 88 95.65%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
XE-133	FG	5.29D	1.008	5.072E-02	8.193E-04
XE-135	FG	9.08H	1.120	3.684E-03	3.337E-04
XE-135M	FG	15.60M	49.000	3.669E-01	2.324E-02
I-131	HFP	8.04D	1.005	6.932E-01	1.263E-03
I-132	HFP	2.38H	1.541	3.069E-02	5.410E-04
I-133	HFP	20.30H	1.052	4.333E-01	1.014E-03
I-134	HFP	52.60M	3.222	2.199E-03	5.440E-04
I-135	HFP	6.61H	1.169	7.406E-02	1.135E-03
ZR-97	FP	16.80H	1.063	1.073E-03	2.480E-04
MO-99	FP	2.76D	1.016	1.235E-02	1.694E-03
TC-99M	FP	2.76D	1.016	1.883E-03	2.489E-04
CD-113M	FP	14.60Y	1.000	2.510E+01	4.464E+00
SB-127	FP	3.85D	1.011	0.000E+00	0.000E+00
TE-132	FP	3.25D	1.013	1.834E-02	3.458E-04
CS-134	FP	2.06Y	1.000	2.833E-02	3.478E-04
CS-136	FP	12.98D	1.003	1.413E-02	7.939E-04
CS-137	FP	30.10Y	1.000	4.004E-02	4.658E-04

Summary of Nuclide Activity
Sample ID : 2 RCS Liquid

Acquisition date : 7-JAN-1995 17:33:56 Page : 7

Total number of peaks in spectrum 92
Number of peaks identified by NID 88 95.65%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
BA-140	FP	12.79D	1.003	1.269E-02	1.256E-03
LA-142	FP	1.54H	1.948	6.630E-03	7.688E-04
NA-24	AP	15.03H	1.071	9.135E-04	1.604E-04
MN-54	AP	312.20D	1.000	1.529E-02	3.013E-04
CO-56	AP	77.30D	1.001	0.000E+00	0.000E+00
MN-56	AP	2.58H	1.491	0.000E+00	0.000E+00
CO-58	AP	70.78D	1.001	1.214E-02	2.962E-04
FE-59	AP	45.10D	1.001	1.272E-03	2.660E-04
CO-60	AP	5.27Y	1.000	1.084E-03	1.505E-04
ZR-95	AP	64.40D	1.001	1.088E-03	3.088E-04
SB-122	AP	2.70D	1.016	3.184E-03	3.239E-04

Interference correction summary

Isotope	uCi/cc	Corrections applied BPS : below peak sensitivity
NA-24	= 5.020E-04	I-135
MN-54	= 1.529E-02	
CO-58	= 1.156E-02	I-132
FE-59	= 1.272E-03	
CO-60	= 8.646E-04	I-132
ZR-95	= 1.088E-03	
ZR-97	= 1.073E-03	
MO-99	= 1.235E-02	
TC-99M	= 1.883E-03	
CD-113M	= 0.000E+00	bps: I-133
SB-122	= 0.000E+00	bps: CS-134
I-131	= 0.693	
I-132	= 3.069E-02	
TE-132	= 1.834E-02	
I-133	= 0.433	I-135

Interference correction summary
Sample ID : 2 RCS Liquid

Page : 8
Acquisition date : 7-JAN-1995 17:33:56

Isotope uCi/cc Corrections applied BPS : below peak sensitivity

XE-133 = 0.000E+00 bps: I-131

CS-134 = 2.833E-02

I-134 Rejected > 20 Half-lives

I-135 = 7.406E-02

XE-135 = 3.684E-03

XE-135M Rejected > 20 Half-lives

CS-136 = 1.413E-02

CS-137 = 4.004E-02

BA-140 = 1.269E-02

LA-142 = 6.630E-03

Cs-137eq= 2.215E+00

Interference report Completed

Fission Product Report

Sample ID : 2 RCS Liquid

Sampled : 7-JAN-1995 16:20:00

Acquired: 7-JAN-1995 17:33:56

Nuclide	Activity
I-131	6.932E-01 uCi/ml
I-132	3.069E-02 uCi/ml
I-133	4.333E-01 uCi/ml
I-134	0.000E+00 uCi/ml
I-135	7.406E-02 uCi/ml
Cs-134	2.833E-02 uCi/ml
Cs-136	1.413E-02 uCi/ml
Cs-137	4.004E-02 uCi/ml
I-131DE	8.177E-01 uCi/ml
I-131/I-133 ratio	1.600E+00
Cs-134/Cs-137 ratio	7.074E-01
Cs-136/Cs-137 ratio	3.528E-01

RCS Boron : ppm

Attachment 4

Clean-up System
Flow History

January 7, 1995 Event

	Flow		Flow		Flow		Flow		Flow
Date	gpm	Date	gpm	Date	gpm	Date	gpm	Date	gpm
01-04-95 00:00	39.79	01-05-95 09:00	37.92	01-06-95 18:00	39.3	01-06-95 23:09	46.59	01-07-95 00:35	96.35
01-04-95 01:00	39.54	01-05-95 10:00	38.68	01-06-95 19:00	39.7	01-06-95 23:10	35.21	01-07-95 00:37	85.44
01-04-95 02:00	40.59	01-05-95 11:00	39.84	01-06-95 20:00	38.8	01-06-95 23:18	45.28	01-07-95 00:38	96.09
01-04-95 03:00	39.65	01-05-95 12:00	40.71	01-06-95 20:36	27.97	01-06-95 23:21	35.26	01-07-95 00:39	83.07
01-04-95 04:00	39.84	01-05-95 13:00	39.5	01-06-95 20:39	40.22	01-06-95 23:38	47.64	01-07-95 00:47	96
01-04-95 05:00	40.18	01-05-95 14:00	40.03	01-06-95 20:43	28.57	01-06-95 23:38	61.24	01-07-95 00:48	82.7
01-04-95 06:00	40.01	01-05-95 15:00	40.07	01-06-95 20:51	39.93	01-06-95 23:39	71.65	01-07-95 00:55	93.52
01-04-95 07:00	40.02	01-05-95 16:00	40.01	01-06-95 20:54	50.15	01-06-95 23:39	86.87	01-07-95 00:57	82.67
01-04-95 08:00	39.78	01-05-95 17:00	37.69	01-06-95 20:57	40.04	01-06-95 23:39	103.34	01-07-95 01:00	82.68
01-04-95 09:00	40.06	01-05-95 18:00	40.46	01-06-95 20:57	27.95	01-06-95 23:39	116.82	01-07-95 01:06	98.53
01-04-95 10:00	40.12	01-05-95 19:00	39.88	01-06-95 21:00	26.51	01-06-95 23:39	135	01-07-95 01:10	83.37
01-04-95 11:00	38.18	01-05-95 20:00	39.87	01-06-95 21:27	41.37	01-06-95 23:40	145.11	01-07-95 01:19	96.71
01-04-95 12:00	40.12	01-05-95 21:00	40.08	01-06-95 21:29	28.15	01-06-95 23:41	132.83	01-07-95 01:20	85.22
01-04-95 13:00	39.96	01-05-95 22:00	40.15	01-06-95 21:35	38.16	01-06-95 23:41	119.36	01-07-95 01:39	97.74
01-04-95 14:00	39.9	01-05-95 23:00	39.48	01-06-95 21:41	27.96	01-06-95 23:42	99.77	01-07-95 01:39	86.24
01-04-95 15:00	40.51	01-06-95 00:00	40.18	01-06-95 21:46	40.13	01-06-95 23:42	81.41	01-07-95 01:52	97.6
01-04-95 16:00	40.01	01-06-95 01:00	40.75	01-06-95 21:48	50.29	01-06-95 23:42	69.5	01-07-95 01:53	85.89
01-04-95 17:00	39.13	01-06-95 02:00	39.83	01-06-95 21:54	40.03	01-06-95 23:43	54.54	01-07-95 01:57	75.79
01-04-95 18:00	40.13	01-06-95 03:00	38.91	01-06-95 21:56	29.66	01-06-95 23:44	40.65	01-07-95 02:00	81.91
01-04-95 19:00	39.4	01-06-95 04:00	39.98	01-06-95 22:00	32.9	01-06-95 23:44	28.51	01-07-95 02:01	92.42
01-04-95 20:00	40.29	01-06-95 05:00	40.22	01-06-95 22:12	44.52	01-06-95 23:55	39.58	01-07-95 02:03	82.39
01-04-95 21:00	38.27	01-06-95 06:00	39.56	01-06-95 22:18	33.76	01-06-95 23:58	50.15	01-07-95 02:16	93.49
01-04-95 22:00	39.76	01-06-95 07:00	39.75	01-06-95 22:26	43.83	01-07-95 00:00	50.51	01-07-95 02:17	82.55
01-04-95 23:00	41.52	01-06-95 08:00	39.85	01-06-95 22:34	28.74	01-07-95 00:03	40.49	01-07-95 02:20	72.42
01-05-95 00:00	40.21	01-06-95 09:00	39.82	01-06-95 22:40	39.99	01-07-95 00:04	29.73	01-07-95 02:22	83.4
01-05-95 01:00	40.34	01-06-95 10:00	38.05	01-06-95 22:42	50.13	01-07-95 00:09	40.06	01-07-95 02:23	93.65
01-05-95 02:00	40.16	01-06-95 11:00	39.97	01-06-95 22:43	37.25	01-07-95 00:12	50.24	01-07-95 02:24	104.61
01-05-95 03:00	40.38	01-06-95 12:00	39.78	01-06-95 22:44	27.03	01-07-95 00:17	40.14	01-07-95 02:25	115.62
01-05-95 04:00	39.89	01-06-95 13:00	40.45	01-06-95 22:46	37.28	01-07-95 00:20	50.88	01-07-95 02:26	104.99
01-05-95 05:00	40.27	01-06-95 14:00	40.18	01-06-95 22:51	26.92	01-07-95 00:20	61.33	01-07-95 02:26	92.2
01-05-95 06:00	39.87	01-06-95 15:00	40.06	01-06-95 22:52	39.63	01-07-95 00:20	74.55	01-07-95 02:27	81.58
01-05-95 07:00	39.98	01-06-95 16:00	40.29	01-06-95 22:57	27.48	01-07-95 00:21	91.99	01-07-95 02:28	71.38
01-05-95 08:00	40.05	01-06-95 17:00	39.96	01-06-95 23:00	36.19	01-07-95 00:29	81.52	01-07-95 02:46	60.75
01-07-95 02:48	49.45	01-07-95 04:31	33.82	01-07-95 09:18	77.84	01-07-95 20:53	64.7	01-08-95 05:56	79.12
01-07-95 02:50	39.28	01-07-95 04:32	23.02	01-07-95 09:24	88.07	01-07-95 20:56	74.75	01-08-95 06:00	75.39
01-07-95 02:58	29.25	01-07-95 04:56	40.67	01-07-95 10:00	89.35	01-07-95 21:00	75	01-08-95 07:00	83.37
01-07-95 03:00	33.65	01-07-95 05:00	42.82	01-07-95 10:59	78.68	01-07-95 22:00	71.29	01-08-95 08:00	83.36
01-07-95 03:01	44.7	01-07-95 05:21	20.32	01-07-95 11:00	76.11	01-07-95 22:03	81.36	01-08-95 09:00	85.38
01-07-95 03:03	54.82	01-07-95 05:21	-0.41	01-07-95 11:09	86.29	01-07-95 22:33	91.73	01-08-95 09:12	60.59

Date	Flow gpm	Date	Flow gpm	Date	Flow gpm	Date	Flow gpm	Date	Flow gpm
01-07-95 03:07	66.82	01-07-95 05:22	19.55	01-07-95 11:19	75.75	01-07-95 23:00	85.13	01-08-95 09:12	41.84
01-07-95 03:11	56.71	01-07-95 05:23	29.59	01-07-95 11:22	86.53	01-08-95 00:00	85.06	01-08-95 09:35	31.75
01-07-95 03:13	45.26	01-07-95 05:23	1.48	01-07-95 12:00	86.24	01-08-95 01:00	85.52	01-08-95 09:51	28.22
01-07-95 03:18	55.5	01-07-95 05:24	29.38	01-07-95 13:00	89.07	01-08-95 01:39	62.58	01-08-95 09:57	40.63
01-07-95 03:22	65.63	01-07-95 05:24	40.4	01-07-95 13:37	78.75	01-08-95 01:42	73.12	01-08-95 10:00	39.54
01-07-95 03:23	77.12	01-07-95 05:33	30.23	01-07-95 14:00	83.13	01-08-95 02:00	78.05	01-08-95 10:06	38.68
01-07-95 03:24	87.52	01-07-95 05:41	46.26	01-07-95 15:00	85.03	01-08-95 02:44	44.02	01-08-95 10:13	37.71
01-07-95 03:25	74.3	01-07-95 05:42	56.67	01-07-95 16:00	88.33	01-08-95 02:52	57.57	01-08-95 10:19	37.58
01-07-95 03:30	84.54	01-07-95 05:47	46.37	01-07-95 16:39	78.31	01-08-95 02:58	74.28	01-08-95 10:22	24.93
01-07-95 03:32	99.25	01-07-95 05:56	56.72	01-07-95 16:44	88.62	01-08-95 03:00	74.66	01-08-95 10:28	17.03
01-07-95 03:33	89.1	01-07-95 05:57	66.83	01-07-95 17:00	89.01	01-08-95 04:00	74.58	01-08-95 10:34	16.63
01-07-95 03:37	79.03	01-07-95 06:00	68	01-07-95 17:21	78.73	01-08-95 04:03	3.82	01-08-95 10:43	16.22
01-07-95 03:40	68.34	01-07-95 06:02	56.36	01-07-95 17:24	89.28	01-08-95 04:05	22.74	01-08-95 11:00	16.09
01-07-95 03:45	78.51	01-07-95 06:03	46.24	01-07-95 17:30	78.39	01-08-95 04:08	37.58	01-08-95 10:59	15.94
01-07-95 03:47	68.06	01-07-95 06:07	67.62	01-07-95 17:37	88.8	01-08-95 04:08	48.48	01-08-95 11:00	16.12
01-07-95 03:53	57.87	01-07-95 06:08	82.14	01-07-95 18:00	86.61	01-08-95 04:09	68.57	01-08-95 11:11	15.62
01-07-95 03:58	72	01-07-95 06:11	92.43	01-07-95 19:00	88.73	01-08-95 04:09	81.99	01-08-95 11:26	15.52
01-07-95 04:00	73.71	01-07-95 06:20	79.74	01-07-95 19:05	77.42	01-08-95 04:09	102.32	01-08-95 11:35	15.63
01-07-95 04:00	63.6	01-07-95 06:21	68.87	01-07-95 19:09	88.06	01-08-95 04:10	114.23	01-08-95 11:43	0
01-07-95 04:01	74.23	01-07-95 06:21	58.75	01-07-95 20:00	86.47	01-08-95 04:11	124.5	01-08-95 11:43	15.83
01-07-95 04:05	60.7	01-07-95 06:24	70.48	01-07-95 20:03	75.17	01-08-95 05:00	123.6	01-08-95 11:43	0
01-07-95 04:07	77.63	01-07-95 06:25	80.5	01-07-95 20:04	64.96	01-08-95 05:09	135.35	01-08-95 11:46	15.83
01-07-95 04:08	89.1	01-07-95 07:00	85.28	01-07-95 20:11	75.42	01-08-95 05:23	123.98	01-08-95 11:58	0
01-07-95 04:10	78.9	01-07-95 08:00	82.68	01-07-95 20:14	64.58	01-08-95 05:25	135.08	01-08-95 13:14	101.43
01-07-95 04:27	67.96	01-07-95 09:00	88.08	01-07-95 20:19	54.18	01-08-95 05:26	124.52	01-08-95 13:24	0
01-07-95 04:30	56.29	01-07-95 09:08	77.12	01-07-95 20:26	64.3	01-08-95 05:47	114.23	01-08-95 13:32	101.36
01-07-95 04:30	44.96	01-07-95 09:13	88.35	01-07-95 20:48	74.83	01-08-95 05:54	89.26	01-08-95 14:00	101.93
01-08-95 14:28	0	01-09-95 07:00	94.68	01-10-95 04:49	97.89				
01-08-95 14:33	100.16	01-09-95 08:00	93.5	01-10-95 05:00	97.26				
01-08-95 15:00	102.13	01-09-95 08:21	0	01-10-95 06:00	99.1				
01-08-95 15:17	0	01-09-95 08:34	93.18	01-10-95 07:00	98.02				
01-08-95 15:29	100.18	01-09-95 08:41	93.52	01-10-95 08:00	95.18				
01-08-95 16:00	100.23	01-09-95 09:00	93.57	01-10-95 09:00	97.8				
01-08-95 17:00	99.29	01-09-95 10:00	93.59	01-10-95 10:00	97.08				
01-08-95 17:55	99.77	01-09-95 11:00	93.8	01-10-95 11:00	93.55				
01-08-95 18:00	99.09	01-09-95 12:00	92.96	01-10-95 13:00	91.44				

Date	Flow gpm	Date	Flow gpm	Date	Flow gpm	Date	Flow gpm	Date	Flow gpm
01-08-95 18:08	98.65	01-09-95 13:00	93.96	01-10-95 14:00	90.74				
01-08-95 18:19	0	01-09-95 14:00	92.92	01-10-95 15:00	85.53				
01-08-95 18:20	97.61	01-09-95 15:00	92.41	01-10-95 15:57	85.98				
01-08-95 18:20	99.66	01-09-95 16:00	98.69	01-10-95 15:57	44.85				
01-08-95 19:00	97.82	01-09-95 17:00	92.81	01-10-95 15:58	24.61				
01-08-95 19:15	108.04	01-09-95 17:53	107.87	01-10-95 16:00	17.01				
01-08-95 19:48	97.82	01-09-95 18:00	100.55	01-10-95 16:04	1.88				
01-08-95 20:00	99.02	01-09-95 19:00	100.1	01-10-95 17:00	2.81				
01-08-95 21:00	98.23	01-09-95 20:00	99.19	01-10-95 17:05	26.25				
01-08-95 21:32	87.27	01-09-95 21:00	98.83	01-10-95 17:05	4.11				
01-08-95 21:38	98.85	01-09-95 22:00	98.36	01-10-95 17:06	35.56				
01-08-95 22:00	98.08	01-09-95 23:00	96.84	01-10-95 17:06	46.16				
01-09-95 23:00	97.49	01-10-95 00:00	96.96	01-10-95 17:07	61.18				
01-09-95 00:00	95.53	01-10-95 01:00	96.13	01-10-95 17:08	77.87				
01-09-95 01:00	97.21	01-10-95 02:00	97.18	01-10-95 17:08	89.03				
01-09-95 02:00	96.91	01-10-95 02:26	15.47	01-10-95 17:11	99.07				
01-09-95 02:39	81.46	01-10-95 03:00	16.13	01-10-95 18:00	98.96				
01-09-95 03:00	80.98	01-10-95 03:30	29.02	01-10-95 19:00	99.05				
01-09-95 03:27	91.2	01-10-95 03:31	46.24	01-10-95 20:00	99.51				
01-09-95 04:00	95.43	01-10-95 03:31	62.15	01-10-95 21:00	98.56				
01-09-95 04:31	83.93	01-10-95 03:31	73.82	01-10-95 22:00	99.54				
01-09-95 04:54	93.95	01-10-95 03:31	89.01	01-10-95 23:00	99.12				
01-09-95 05:00	96.01	01-10-95 04:00	87.56	01-10-95 23:59	99.12				
01-09-95 06:00	94.05								

Attachment 5

Iodine Concentration
Graph

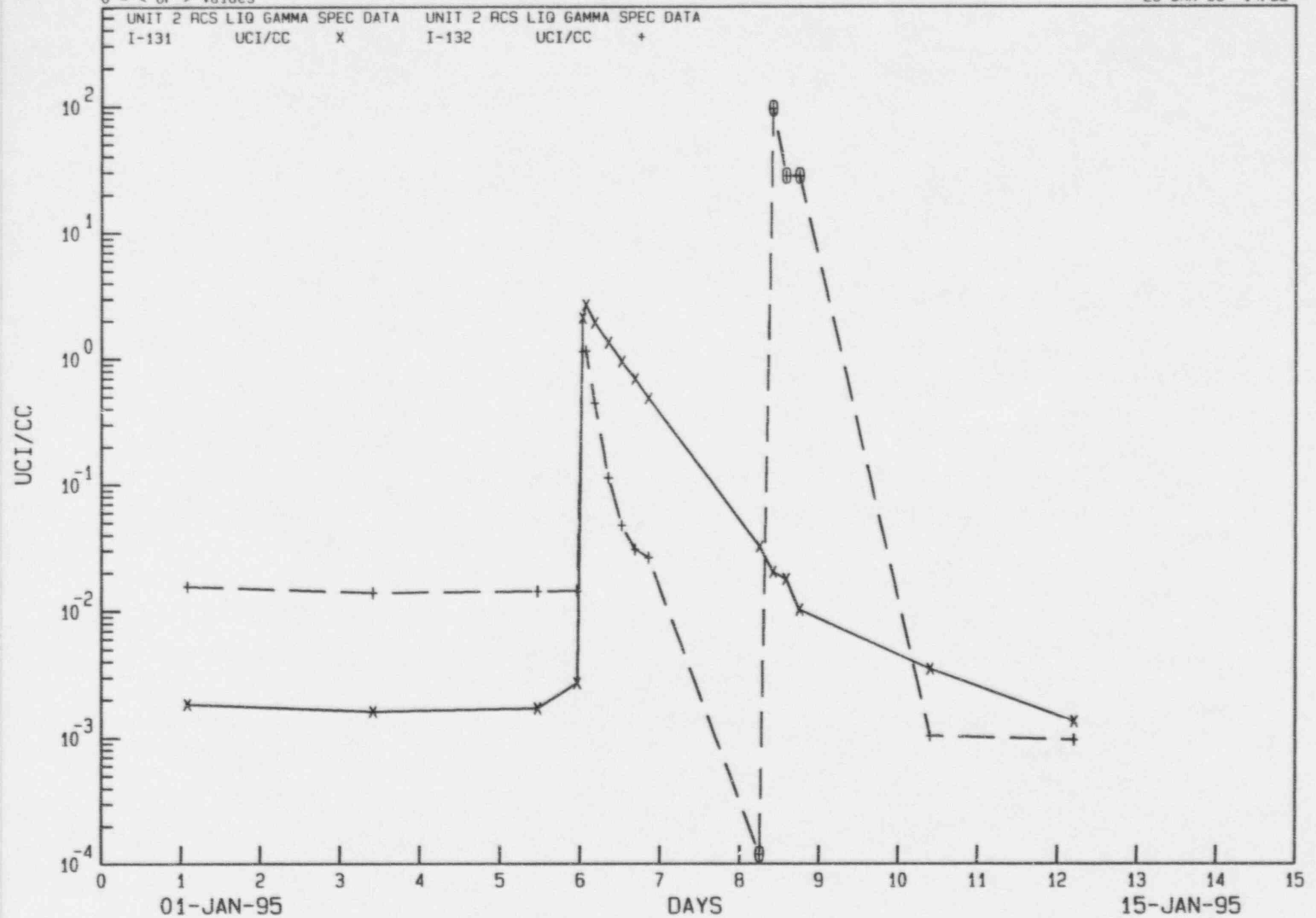
January 7, 1995 Event

Arkansas Nuclear One

23-JAN-96 14:52

0 = < or > Values

UNIT 2 RCS LIQ GAMMA SPEC DATA UNIT 2 RCS LIQ GAMMA SPEC DATA
I-131 UCI/CC x I-132 UCI/CC +



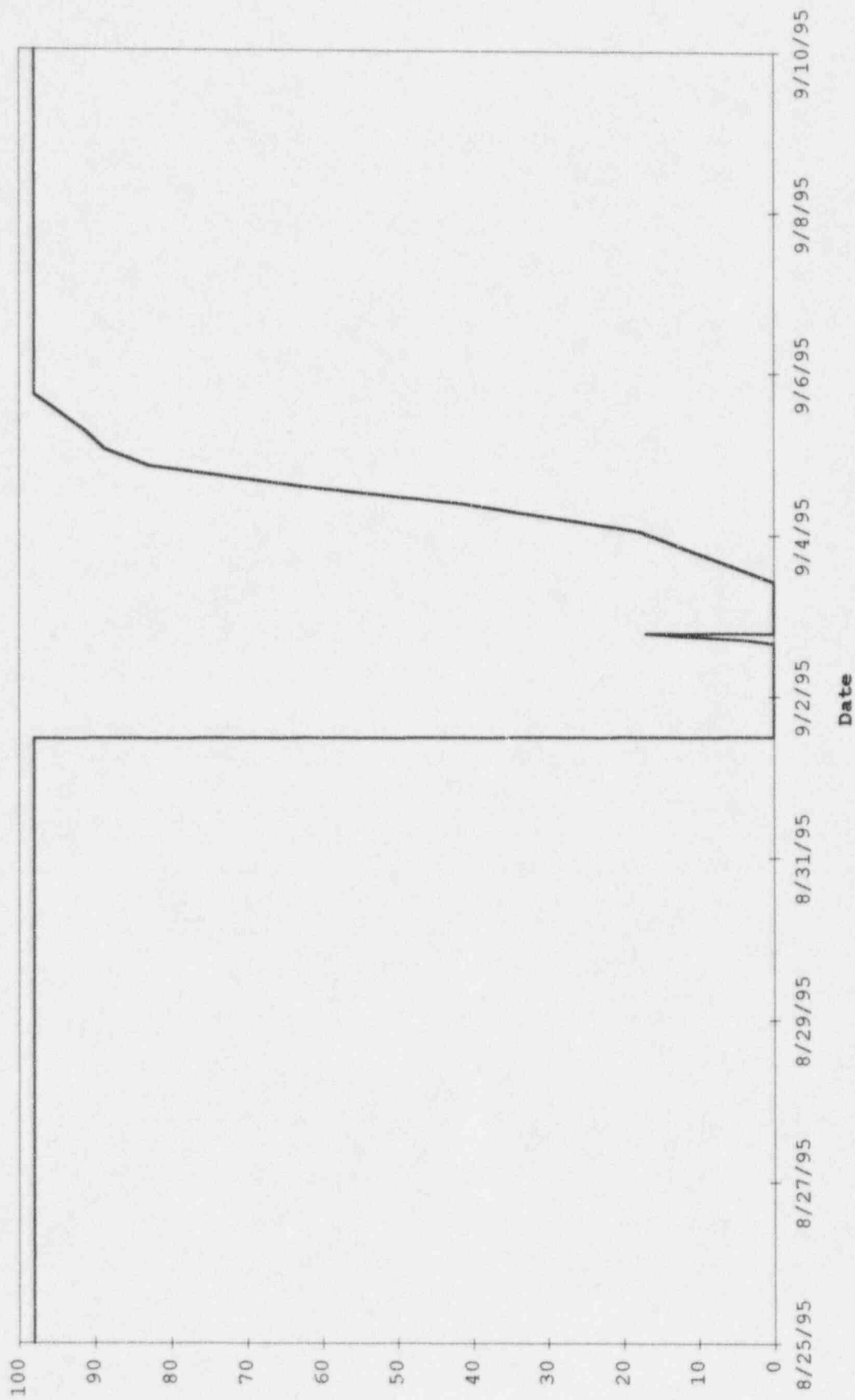
September 1, 1995 Event

Attachment 6

Reactor Power
History

September 1, 1995 Event

Arkansas Nuclear One



Attachment 7

Results of
Isotopic Analyses

September 1, 1995 Event

Entergy Operations : ANO - Nuclear Chemistry Department - 1-SEP-1995 10:03

Main Spectra: 95-07842

Bkg Spectra : 95-07833

Sample date : 1-SEP-1995 08:50:00 Isolation date : 1-SEP-1995 08:50:00
Sample ID : 2 RCS Liquid Sample Quantity : 1.00000E+01 ml
Comments :
Geometry : Table 201 60 ml bottle CAVE 2 SHEILD 1

Calib date : 31-AUG-1995 23:38:0 Acquisition date : 1-SEP-1995 09:48:24
keV/channel : 4.99385E-01 Elapsed live time: 0 00:13:45.42
offset : -4.15771E-02 Percent deadtime : 5.8%

Decay limit : 8.00000 Peak Sensitivity : 3.00000
Abundance : 30.00000 Energy tolerance : 1.50000
Library : Libark Nuclear Chemist : GALLAGHER

Peak Search performed from channel : 100 to 4050

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Frr	Fit	Nuclides
10	72.87	1204	16792	1.49	146.00	143	12	18.1	1.04E+00	
10	75.08*	2455	21613	1.44	150.42	143	12	11.0		
1	81.26	2128	16442	4.52	162.81	158	7	10.1	6.29E+00	I-131 XE-133
1	84.72*	1265	16841	1.98	169.74	167	7	17.2	9.86E-01	
3	135.38	2771	20053	1.43	271.19	268	14	8.7	1.08E+00	I-134 SE-75
1	165.83	1401	24826	1.18	332.16	329	8	19.6	7.23E-02	BA-139 CE-139
1	220.55	2055	23036	1.60	441.72	438	8	13.0	7.03E-01	I-135
1	227.36	987	19352	1.26	455.36	453	7	23.6	3.44E+00	CS-138 TE-132
1	235.55	995	21387	1.51	471.77	469	8	25.8	1.01E+00	I-134
1	249.67	5396	25358	1.51	500.04	496	10	5.7	2.06E-01	XE-135
1	262.79*	1003	19509	2.17	526.31	523	8	24.2	3.07E+00	I-132 I-133 CD-113M I-135
4	284.29	1356	14306	1.66	569.37	566	17	14.2	9.53E-01	I-131 I-132
4	288.34	2952	23934	1.64	577.47	566	17	10.0		I-135
1	364.31	10370	19539	1.62	729.60	724	12	2.9	1.80E+00	I-131
4	405.21	3240	12950	1.76	811.50	803	23	7.1	1.75E+00	I-134
4	408.88	1879	15074	2.19	818.86	803	23	14.0		XE-135 CS-138
1	417.44	2526	12512	1.69	835.99	831	11	8.9	1.91E+00	I-135
1	433.19	2251	11174	1.79	857.53	863	10	9.1	1.17E+00	I-134 I-135
7	462.54	8865	10736	1.67	953.30	914	19	2.4		CS-138
1	488.39	687	8901	1.71	958.07	974	9	25.0	7.44E-01	I-134
1	510.74*	351764	28430	2.89	1022.83	1013	26	0.2	7.56E+01	CO-58
2	522.42	6508	7264	1.76	1046.20	1040	27	2.8	1.19E+00	TE-132 I-132
2	526.31	6846	7243	1.78	1054.00	1040	27	3.0		I-135 XE-135M

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	529.63	38286	6553	1.73	1060.65	1040	27	0.7		I-133 I-135
1	540.56	2331	6678	1.59	1082.53	1077	11	7.1	4.87E-01	I-134
1	546.46	7126	8061	1.80	1094.34	1088	14	3.0	9.46E-01	I-135 CS-138 I-132
1	595.13	3394	5932	1.79	1191.81	1187	11	4.7	1.12E+00	I-134
1	621.43	3779	7183	1.87	1244.47	1239	13	4.9	1.44E+00	AG-110M I-132 I-134 RU-106
1	629.91	5271	8146	2.04	1261.45	1253	16	4.1	1.09E+01	I-134 TE-132 I-132
1	636.34	543	5072	1.88	1274.34	1269	10	24.9	1.03E+00	I-131
1	650.30	1197	6573	2.18	1302.28	1296	14	14.9	1.17E+00	I-135 I-132
1	661.76	353	4220	1.55	1325.24	1321	9	34.2	1.48E+00	CS-137
5	667.45	34561	5058	1.86	1336.62	1329	20	0.7	3.14E+00	TE-132 I-132
5	670.51	2818	5404	2.66	1342.76	1329	20	7.4		I-132 I-132
1	677.05	1947	6595	1.69	1355.85	1350	14	9.0	7.02E-01	AG-110M I-134 AG-110M
1	706.81*	1009	4268	2.62	1415.45	1409	12	13.3	1.59E+00	AG-110M I-133 I-135
5	726.77	1791	3153	1.89	1455.42	1451	17	6.1	1.28E+00	I-132 I-132
5	730.18	729	3724	2.76	1462.25	1451	17	17.1		I-134 XE-135
2	766.50	1390	3733	2.12	1534.97	1529	26	9.7	3.88E+00	NB-95 I-134
2	772.38	23670	3135	1.87	1546.76	1529	26	0.8		TE-132 I-132
1	780.11	340	2289	1.40	1562.23	1560	8	25.2	1.22E+00	I-132
1	811.45	4521	4565	4.93	1624.97	1615	17	3.7	2.75E+01	CO-58 I-132 XE-135
1	836.61	2701	3719	1.90	1675.37	1668	15	5.2	7.89E-01	I-135
1	846.83	23441	4194	1.94	1695.83	1687	16	0.9	3.46E+00	MN-56 CO-56 I-134
1	856.94	2183	3332	2.41	1716.09	1709	14	6.0	1.40E+00	I-133 I-134
8	871.53	1027	2712	2.14	1745.29	1740	20	10.2	1.68E+00	NB-94 CS-138
8	875.35	1651	3092	2.17	1752.95	1740	20	7.5		I-133 I-132

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	883.92	15425	4272	2.00	1770.10	1760	19	1.3	1.01E+01	I-134
1	897.79	2867	3586	2.06	1797.88	1789	17	5.2	1.13E+00	AG-110M
1	909.72	521	2536	2.84	1821.76	1816	12	20.1	1.09E+00	Y-88
1	947.74*	1104	2381	2.54	1897.90	1892	12	9.4	1.97E+00	RB-88
1	954.40	4726	2873	2.01	1911.23	1905	15	2.9	2.38E+00	I-132
1	974.38	2827	3010	6.10	1951.25	1942	16	4.7	2.48E+01	I-133
1	1009.50	4934	2834	2.05	2021.57	2014	15	2.8	1.23E+00	TE-132
1	1031.66	269	1745	1.50	2065.95	2062	9	29.2	6.41E-01	I-132
1	1038.79	3279	2817	2.28	2080.22	2075	15	4.0	2.49E+00	RB-89
1	1072.55	3118	2785	2.18	2147.83	2139	18	4.4	1.26E+00	CO-56
1	1101.63	745	2623	2.98	2206.05	2198	16	15.8	4.26E-01	I-135
1	1123.93	1072	2069	2.13	2250.72	2245	13	9.4	5.64E-01	I-134
2	1131.48	7322	2013	2.13	2265.84	2258	25	1.7	6.08E-01	I-135
2	1136.03	2742	2001	2.21	2274.95	2258	25	4.1		I-132
5	1143.71	519	2303	2.51	2290.32	2283	22	20.7	1.89E+00	I-134
5	1147.49*	295	1689	1.87	2297.90	2283	22	27.9		I-132
1	1173.16	220	1477	1.68	2349.30	2345	10	32.9	7.18E-01	CS-138
1	1236.30	367	1470	2.40	2475.73	2470	12	22.0	7.68E-01	I-132
1	1248.34	220	839	1.84	2499.83	2496	8	24.4	1.40E+00	I-133
1	1260.36	8971	1833	2.21	2523.91	2514	19	1.6	1.76E+00	RB-89
4	1290.77	251	597	2.47	2584.81	2581	25	16.9	2.06E+00	I-135
4	1294.90	381	823	1.61	2593.07	2581	25	15.6		I-132
4	1297.84	925	1110	2.70	2598.97	2581	25	8.7		FE-59
1	1343.62	154	731	1.57	2690.63	2686	11	35.3	8.78E-01	AR-41
1	1368.56	9731	1618	2.30	2740.57	2730	23	1.5	1.06E+01	I-133
1	1398.59	1473	1307	2.31	2800.71	2790	22	7.0	7.34E-01	CS-138
7	1435.74	9447	1037	2.33	2875.11	2866	32	1.3	1.72E+00	I-132
7	1442.55	550	1323	4.80	2888.74	2866	32	17.1		NA-24
1	1457.53	2899	1122	2.82	2918.73	2908	21	3.5	3.55E+00	TE-132
1	1502.77	260	636	2.38	3009.33	3004	11	20.0	6.12E-01	I-135
1	1566.25	332	671	2.68	3136.45	3129	15	18.1	1.06E+00	I-135
1	1613.86	718	579	2.35	3231.77	3225	13	8.0	1.71E+00	I-135
1	1678.30	2454	569	2.49	3360.83	3352	18	3.1	1.04E+00	I-134
1	1706.77	1133	458	2.62	3417.82	3410	17	5.5	1.30E+00	I-135
1	1731.94	731	672	2.58	3468.24	3453	24	10.3	1.98E+00	I-135
1	1741.56	446	540	2.96	3487.50	3478	20	14.1	9.65E-01	I-134
1	1791.41	1912	412	2.60	3587.31	3576	22	3.7	2.54E+00	I-135
1	1807.04	889	524	2.70	3618.62	3607	24	7.8	1.41E+00	I-134

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	1836.26	2411	624	2.48	3677.14	3670	20	3.4	1.16E+00	RB-88
										Y-88
1	1897.89	246	297	4.34	3800.54	3790	17	18.1	1.33E+00	
1	1921.16	242	267	2.31	3847.14	3841	12	15.8	1.93E+00	I-132
1	2002.29	201	278	2.26	4009.59	4003	15	20.8	2.67E+00	I-132
7	2008.35	111	98	2.72	4021.74	4017	19	21.3	2.28E+00	RB-89
7	2012.15	108	33	2.26	4029.35	4017	19	24.0		

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Acquisition date : 1-SEP-1995 09:48:24

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig	Err
NA-24	AP	1368.55	9731.	100.00*	4.082E-03	8.209E-03	1.232E-04	
		1732.10	731.	10.27	3.391E-03	7.231E-03	7.454E-04	
AR-41	AG	1293.60	381.	99.20*	4.255E-03	4.475E-04	6.996E-05	
CO-56	AP	846.75	23441.	99.99	5.763E-03	1.333E-02	1.203E-04	
		1037.83	3279.	14.00	4.967E-03	1.545E-02	6.197E-04	
		1771.49	0.	15.70*	4.967E-03	0.000E+00	0.000E+00	
MN-56	AP	846.60	23441.	99.00	5.763E-03	1.806E-02	1.630E-04	
		1811.20	0.	27.20*	5.763E-03	0.000E+00	0.000E+00	
CO-58	AP	511.00	351764.	30.00	8.489E-03	4.525E-01	9.781E-04	
		810.75	4521.	99.45*	5.965E-03	2.496E-03	9.352E-05	
FE-59	AP	1099.22	0.	56.50*	5.965E-03	0.000E+00	0.000E+00	
		1291.56	251.	43.20	4.265E-03	4.467E-04	7.544E-05	
CO-60	AP	1173.23	220.	99.86*	4.562E-03	1.581E-04	5.199E-05	
SE-75	AP	136.00	2771.	56.02*	1.874E-02	8.645E-04	7.524E-05	
RB-88	FP	898.03	2867.	14.50*	5.500E-03	1.500E-01	7.739E-03	
		1836.00	2411.	22.10	3.239E-03	1.406E-01	4.792E-03	
Y-88	FP	898.02	2867.	94.00*	5.500E-03	1.816E-03	9.368E-05	
		1836.01	2411.	99.36	3.239E-03	2.454E-03	8.364E-05	
RB-89	FP	947.69	1104.	10.11	5.293E-03	1.277E-01	1.200E-02	
		1031.88	269.	59.00*	4.991E-03	5.658E-03	1.651E-03	
		1248.10	220.	43.00	4.365E-03	7.268E-03	1.775E-03	
NB-94	AP	702.50	0.	100.00*	0.000E+00	0.000E+00	0.000E+00	
		871.10	1027.	100.00	5.630E-03	5.974E-04	6.103E-05	
NB-95	FP	765.82	1390.	99.00*	6.242E-03	7.371E-04	7.120E-05	
RU-106	FP	621.80	3779.	9.81*	7.356E-03	1.715E-02	8.394E-04	
AG-110M	AP	620.35	3779.	2.78	7.356E-03	6.060E-02	2.965E-03	
		676.60	1947.	0.14	6.898E-03	6.503E-01	5.872E-02	
		677.61	1947.	10.72	6.898E-03	8.620E-03	7.784E-04	
		706.67	1009.	16.74	6.663E-03	2.963E-03	3.927E-04	
		884.67	15425.	72.86*	5.567E-03	1.245E-02	1.640E-04	
CD-113M	FP	263.70	1003.	0.01*	1.281E-02	4.273E+00	1.033E+00	
I-131	HFP	80.18	2128.	2.62	1.626E-02	1.642E-02	1.658E-03	
		284.29	1356.	6.06	1.222E-02	6.022E-03	8.569E-04	
		364.48	10370.	81.24*	1.075E-02	3.904E-03	1.125E-04	
		636.97	543.	7.27	7.230E-03	3.400E-03	8.473E-04	
I-132	HFP	262.70	1003.	1.44	1.281E-02	2.449E-02	5.922E-03	
		284.80	1356.	0.79	1.222E-02	6.326E-02	9.003E-03	
		522.65	6508.	16.10	8.352E-03	2.180E-02	6.204E-04	
		547.10	7126.	1.25	8.084E-03	3.176E-01	9.372E-03	
		621.20	3779.	1.60	7.356E-03	1.446E-01	7.075E-03	

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-132	HFP	630.22	5271.	13.70	7.284E-03	2.379E-02	9.716E-04
		650.60	1197.	2.70	7.115E-03	2.806E-02	4.187E-03
		667.69	34561.	98.70*	6.976E-03	2.261E-02	1.534E-04
		669.80	2818.	5.00	6.951E-03	3.651E-02	2.703E-03
		671.60	2818.	5.20	6.951E-03	3.511E-02	2.599E-03
		727.20	1791.	5.40	6.514E-03	2.293E-02	1.409E-03
		728.10	1791.	2.20	6.514E-03	5.628E-02	3.458E-03
		772.61	23670.	76.20	6.204E-03	2.255E-02	1.816E-04
		780.20	340.	1.23	6.155E-03	2.023E-02	5.088E-03
		812.20	4521.	5.60	5.965E-03	6.095E-02	2.283E-03
		876.80	1651.	1.08	5.610E-03	1.227E-01	9.188E-03
		910.30	521.	0.92	5.447E-03	4.687E-02	9.420E-03
		954.55	4726.	18.10	5.269E-03	2.232E-02	6.455E-04
		1136.03	2742.	3.00	4.666E-03	8.822E-02	3.635E-03
		1143.40	519.	1.40	4.644E-03	3.592E-02	7.430E-03
		1173.20	220.	1.10	4.562E-03	1.974E-02	6.491E-03
		1290.70	251.	1.14	4.265E-03	2.327E-02	3.929E-03
		1295.30	381.	2.00	4.255E-03	2.017E-02	3.153E-03
		1398.57	1473.	7.10	4.012E-03	2.328E-02	1.619E-03
		1442.56	550.	1.42	3.916E-03	4.453E-02	7.598E-03
TE-132	FP	228.16	987.	88.50	1.422E-02	2.594E-04	6.119E-05
		522.65	6508.	16.10	8.352E-03	1.600E-02	4.555E-04
		630.22	5271.	13.70	7.284E-03	1.746E-02	7.133E-04
		667.69	34561.	98.70	6.976E-03	1.660E-02	1.126E-04
		772.61	23670.	76.20*	6.204E-03	1.655E-02	1.333E-04
		954.55	4726.	18.10	5.269E-03	1.639E-02	4.739E-04
I-133	HFP	1398.57	1473.	7.10	4.012E-03	1.709E-02	1.188E-03
		263.40	1003.	0.44	1.281E-02	6.083E-02	1.471E-02
		529.50	38286.	87.50*	8.270E-03	1.798E-02	1.188E-04
		707.40	1009.	1.58	6.663E-03	3.268E-02	4.332E-03
		856.10	2183.	1.23	5.707E-03	1.061E-01	6.351E-03
		875.30	1651.	4.55	5.610E-03	2.199E-02	1.646E-03
		910.50	521.	0.38	5.447E-03	8.453E-02	1.699E-02
		1237.50	367.	1.58	4.395E-03	1.803E-02	3.969E-03
XE-133	FG	1298.90	925.	2.19	4.248E-03	3.382E-02	2.936E-03
		81.00	2128.	37.10*	1.626E-02	1.162E-03	1.174E-04
I-134	HFP	135.44	2771.	3.26	1.874E-02	3.525E-02	3.068E-03
		235.49	995.	1.74	1.383E-02	3.214E-02	8.281E-03
		405.44	3240.	7.35	1.009E-02	3.394E-02	2.413E-03
		433.30	2251.	4.45	9.611E-03	4.089E-02	3.734E-03
		488.90	687.	1.61	8.768E-03	3.784E-02	9.463E-03
		540.80	2331.	8.60	8.148E-03	2.585E-02	1.842E-03
		595.40	3394.	11.20	7.591E-03	3.103E-02	1.469E-03
		621.75	3779.	10.90	7.356E-03	3.663E-02	1.792E-03
		628.60	5271.	2.28	7.284E-03	2.466E-01	1.007E-02
		677.34	1947.	8.20	6.898E-03	2.674E-02	2.415E-03
		730.60	729.	2.20	6.489E-03	3.967E-02	6.780E-03
		766.68	1390.	3.83	6.242E-03	4.518E-02	4.364E-03
		847.03	23441.	96.00*	5.763E-03	3.293E-02	2.972E-04
		857.28	2183.	6.60	5.707E-03	4.503E-02	2.695E-03
		884.08	15425.	66.00	5.567E-03	3.263E-02	4.298E-04
		947.80	1104.	4.00	5.293E-03	4.052E-02	3.809E-03
		974.63	2827.	4.93	5.195E-03	8.577E-02	4.033E-03
		1040.00	3279.	2.00	4.967E-03	2.565E-01	1.029E-02
		1072.53	3118.	4.30	4.857E-03	3.489E-02	1.541E-03

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-134	HFP	1136.12	2742.	9.15	4.666E-03	4.992E-02	2.057E-03
		1613.70	718.	4.00	3.585E-03	3.893E-02	3.133E-03
		1741.40	446.	3.10	3.376E-03	3.308E-02	4.661E-03
		1806.90	889.	5.60	3.280E-03	3.762E-02	2.935E-03
I-135	HFP	220.50	2055.	1.75	1.457E-02	2.967E-02	3.846E-03
		264.26	1003.	0.18	1.281E-02	1.564E-01	3.782E-02
		288.45	2952.	3.09	1.212E-02	2.895E-02	2.896E-03
		417.63	2526.	3.52	9.884E-03	2.668E-02	2.370E-03
		433.74	2251.	0.55	9.611E-03	1.558E-01	1.423E-02
		526.56	6846.	13.33	8.308E-03	2.270E-02	6.857E-04
		530.80	38286.	0.03	8.270E-03	5.398E+01	3.566E-01
		546.56	7126.	7.12	8.084E-03	4.547E-02	1.342E-03
		649.85	1197.	0.45	7.115E-03	1.359E-01	2.027E-02
		707.92	1009.	0.66	6.663E-03	8.456E-02	1.121E-02
		836.80	2701.	6.66	5.820E-03	2.557E-02	1.343E-03
		1038.76	3279.	7.92	4.967E-03	3.060E-02	1.228E-03
		1101.58	745.	1.60	4.767E-03	3.581E-02	5.659E-03
		1124.00	1072.	3.60	4.701E-03	2.324E-02	2.175E-03
		1131.51	7322.	22.51	4.679E-03	2.553E-02	4.439E-04
		1260.41	8971.	28.60*	4.336E-03	2.657E-02	4.214E-04
		1367.89	9731.	0.61	4.082E-03	1.444E+00	2.166E-02
		1457.56	2899.	8.64	3.884E-03	3.174E-02	1.115E-03
		1502.79	260.	1.07	3.792E-03	2.350E-02	4.703E-03
		1566.41	332.	1.29	3.670E-03	2.582E-02	4.675E-03
		1678.03	2454.	9.52	3.476E-03	2.722E-02	8.344E-04
		1706.46	1133.	4.09	3.430E-03	2.965E-02	1.643E-03
		1791.20	1912.	7.69	3.302E-03	2.764E-02	1.017E-03
XE-135	FG	249.79	5396.	90.30*	1.325E-02	1.605E-03	9.114E-05
		407.99	1879.	0.36	1.003E-02	1.855E-01	2.605E-02
		731.52	729.	0.06	6.489E-03	7.255E-01	1.240E-01
		812.63	4521.	0.07	5.965E-03	3.832E+00	1.436E-01
XE-135M	FG	526.81	6846.	80.00*	8.308E-03	6.142E-02	1.855E-03
CS-137	FP	661.62	353.	84.62*	7.022E-03	1.943E-04	6.645E-05
CS-138	FP	227.76	987.	1.51	1.422E-02	6.166E-02	1.454E-02
		408.98	1879.	4.66	1.003E-02	5.389E-02	7.569E-03
		462.79	8865.	30.75	9.132E-03	4.235E-02	1.028E-03
		546.94	7126.	10.76	8.084E-03	1.099E-01	3.243E-03
		871.80	1027.	5.11	5.630E-03	4.788E-02	4.891E-03
		1009.78	4934.	29.83	5.068E-03	4.378E-02	1.205E-03
		1147.22	295.	1.24	4.634E-03	6.855E-02	1.910E-02
		1343.59	154.	1.14	4.142E-03	4.355E-02	1.536E-02
		1435.86	9447.	76.30*	3.930E-03	4.227E-02	5.313E-04
BA-139	FP	165.80	1401.	18.80*	1.776E-02	2.348E-03	4.600E-04
CE-139	FP	165.85	1401.	80.00*	1.776E-02	3.229E-04	6.327E-05

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
10	72.87	1204	16792	1.49	146.00	143	12	1.46E+00	18.1	1.43E+00	
10	75.08	2455	21613	1.44	150.42	143	12	2.97E+00	11.0	1.49E+00	T
1	84.72	1265	16841	1.98	169.74	167	7	1.53E+00	17.2	1.69E+00	T
1	1897.89	246	297	4.34	3800.54	3790	17	2.98E-01	18.1	0.00E+00	T
7	2012.15	108	33	2.26	4029.35	4017	19	1.31E-01	24.0	0.00E+00	T

Flags: "T" = Tentatively associated

Summary of Nuclide Activity
Sample ID : 2 RCS Liquid

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Acquisition date : 1-SEP-1995 09:48:24

Total number of peaks in spectrum 91
Number of peaks identified by NID 90 98.90%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
AR-41	AG	1.83H	1.514	4.475E-04	6.996E-05
XE-133	FG	5.29D	1.006	1.162E-03	1.174E-04
XE-135	FG	9.08H	1.087	1.605E-03	9.114E-05
XE-135M	FG	15.60M	18.212	6.142E-02	1.855E-03
I-131	HFP	8.04D	1.004	3.904E-03	1.125E-04
I-132	HFP	2.38H	1.375	2.261E-02	1.534E-04
I-133	HFP	20.30H	1.038	1.798E-02	1.188E-04
I-134	HFP	52.60M	2.373	3.293E-02	2.972E-04
I-135	HFP	6.61H	1.122	2.657E-02	4.214E-04
RB-88	FP	17.80M	12.747	1.500E-01	7.739E-03
Y-88	FP	106.60D	1.000	1.816E-03	9.368E-05
RB-89	FP	15.40M	18.907	5.658E-03	1.651E-03
NB-95	FP	35.15D	1.001	7.371E-04	7.120E-05
RU-106	FP	368.20D	1.000	1.715E-02	8.394E-04
CD-113M	FP	14.60Y	1.000	4.273E+00	1.033E+00
TE-132	FP	3.25D	1.010	1.655E-02	1.333E-04
CS-137	FP	30.10Y	1.000	1.943E-04	6.645E-05
CS-138	FP	32.20M	4.097	4.227E-02	5.313E-04
BA-139	FP	1.42H	1.709	2.348E-03	4.600E-04
CE-139	FP	137.50D	1.000	3.229E-04	6.327E-05
NA-24	AP	15.03H	1.052	8.209E-03	1.232E-04
CO-56	AP	77.30D	1.000	0.000E+00	0.000E+00
MN-56	AP	2.58H	1.342	0.000E+00	0.000E+00
CO-58	AP	70.78D	1.000	2.496E-03	9.352E-05
FE-59	AP	45.10D	1.001	0.000E+00	0.000E+00
CO-60	AP	5.27Y	1.000	1.581E-04	5.199E-05
SE-75	AP	120.40D	1.000	8.645E-04	7.524E-05
NB-94	AP	20300.00Y	1.000	0.000E+00	0.000E+00
AG-110M	AP	249.90D	1.000	1.245E-02	1.640E-04

Interference correction summary

Isotope	uCi/cc	Corrections applied BPS : below peak sensitivity
NA-24	= 8.058E-03	I-135
AR-41	= 0.000E+00	bps: I-132
CO-58	= 1.569E-03	I-132 XE-135
CO-60	= 0.000E+00	bps: I-132

Interference correction summary
Sample ID : 2 RCS Liquid

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Acquisition date : 1-SEP-1995 09:48:24

Isotope uCi/cc Corrections applied BPS : below peak sensitivity

SE-75 = 0.000E+00 bps: I-134
RB-88 = 0.150
Y-88 = 0.000E+00 bps: RB-88
RB-89 = 5.658E-03
NB-95 = 0.000E+00 bps: I-134
RU-106 = 0.000E+00 bps: I-134
AG-110M = 0.000E+00 bps: I-134
CD-113M = 0.000E+00 bps: I-133 I-135
I-131 = 3.904E-03
I-132 = 2.261E-02
TE-132 = 1.655E-02
I-133 = 1.797E-02 I-135
XE-133 = 8.860E-04 I-131
I-134 = 3.293E-02
I-135 = 2.657E-02
XE-135 = 1.605E-03
XE-135M = 0.000E+00 bps: I-135
CS-137 = 1.943E-04
CS-138 = 4.227E-02
BA-139 = 2.348E-03
CE-139 = 0.000E+00 bps: BA-139

Cs-137eq= 3.809E-01

Interference report Completed

Fission Product Report

Sample ID : 2 RCS Liquid

Sampled : 1-SEP-1995 08:50:00

Acquired: 1-SEP-1995 09:48:24

Nuclide	Activity
I-131	3.904E-03 uCi/ml
I-132	2.261E-02 uCi/ml
I-133	1.797E-02 uCi/ml
I-134	3.293E-02 uCi/ml
I-135	2.657E-02 uCi/ml
Cs-134	0.000E+00 uCi/ml
Cs-136	0.000E+00 uCi/ml
Cs-137	1.943E-04 uCi/ml
I-131DE	1.237E-02 uCi/ml
I-131/I-133 ratio	2.172E-01
Cs-134/Cs-137 ratio	N/A....
Cs-136/Cs-137 ratio	N/A....

RCS Boron : ppm

Entergy Operations : ANO - Nuclear Chemistry Department - 1-SEP-1995 14:39

Main Spectra: 95-07854

Bkg Spectra : 95-07831

Sample date : 1-SEP-1995 13:30:00 Isolation date : 1-SEP-1995 13:30:00
Sample ID : 2 RCS Liquid Sample Quantity : 5.00000E+00 ml
Comments : 2 HR IDE
Geometry : TABLE 303 60 CC BOTTLE CAVE 3 SHELF 3

Calib date : 31-AUG-1995 22:02:2 Acquisition date : 1-SEP-1995 14:26:18
keV/channel : 4.99928E-01 Elapsed live time: 0 00:10:39.82
offset : -4.04297E-02 Percent deadtime : 14%

Decay limit : 8.00000 Peak Sensitivity : 3.00000
Abundance : 30.00000 Energy tolerance : 1.50000
Library : Libark Nuclear Chemist : GALLAGHER

Peak Search performed from channel : 100 to 4050

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	72.79	4346	28606	1.36	145.68	141	13	7.0	1.70E+00	
2	74.93*	7604	28921	1.33	149.97	141	13	4.1		
1	80.24	9437	36307	1.39	160.58	156	10	3.9	9.64E-01	XE-133 I-131 XE-133
4	84.79*	4016	25400	1.54	169.69	166	12	6.8	1.31E+00	
4	87.15*	1434	25994	1.17	174.40	166	12	18.9		CS-136 CD-109
1	136.21	1945	30882	3.16	272.54	269	6	14.4	7.19E+00	I-134 SE-75
1	176.89	2199	40104	1.57	353.92	351	7	15.2	2.58E-01	SB-125 CS-136 I-131
1	220.44	2593	33882	1.36	441.01	438	7	11.9	4.50E-01	I-135
1	249.62	6800	34953	1.58	499.39	495	9	5.1	1.79E+00	XE-135
1	262.71	2972	31787	1.81	525.57	522	9	10.9	1.05E+00	I-132 I-133 CD-113M
1	273.62*	748	23117	1.25	547.40	545	7	33.9	3.88E-01	CS-136
1	284.20	19178	40455	1.55	568.56	561	13	2.3	1.14E+00	I-131 I-132
1	288.32	3655	24241	1.49	576.81	574	8	7.6	1.79E+00	I-135
1	319.88	589	15852	1.20	639.93	638	6	34.0	1.42E-01	I-134 CR-51
1	325.93	783	15654	1.40	652.04	650	6	25.4	5.33E-01	I-131
1	340.39	3471	22318	1.55	680.96	677	9	8.0	1.17E+00	CS-136
1	364.31	208823	34529	1.60	728.81	721	17	0.3	1.39E+01	I-131
1	405.19	734	11914	1.23	810.57	808	8	26.0	1.57E+00	I-134
1	417.51	5029	16969	1.85	835.23	829	12	5.4	1.19E+00	I-135
1	422.86	1055	10902	2.18	845.92	842	8	17.4	1.49E+00	I-133
1	433.54	678	9790	1.21	867.29	865	7	24.5	3.52E+00	I-134 I-135
1	462.45	604	10260	1.90	925.10	922	8	29.3	1.18E+00	CS-138 SB-125
4	502.64	1235	8332	2.01	1005.50	1001	31	13.1	9.05E+00	I-131

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	505.63	3982	12438	1.97	1011.48	1001	31	5.9		I-132
4	510.58*	15561	15402	2.53	1021.38	1001	31	1.9		CO-58
4	522.44	11403	10382	1.73	1045.11	1037	31	1.9	5.75E+00	TE-132
										I-132
4	526.38	11035	11371	1.88	1052.99	1037	31	2.4		I-135
										XE-135M
4	529.64	153679	10156	1.73	1059.51	1037	31	0.3		I-133
										I-135
1	535.76	2456	9395	1.83	1071.74	1068	10	7.8	5.23E-02	
1	540.39	821	7240	2.19	1081.01	1078	8	18.3	6.53E-01	I-134
1	546.35	6977	10900	1.78	1092.95	1087	12	3.2	1.26E+00	I-135
										CS-138
										I-132
1	563.24	1261	6840	2.21	1126.71	1123	8	11.6	3.87E+00	CS-134
										SB-122
1	569.07	1947	9107	1.78	1138.37	1133	11	9.8	1.81E+00	CS-134
1	595.23	623	6838	1.63	1190.71	1187	9	24.1	2.20E-01	I-134
1	604.46	11033	11634	1.75	1209.17	1202	16	2.4	2.52E+00	CS-134
3	617.61	1067	5925	1.81	1235.48	1231	17	13.4	1.28E+00	I-133
3	620.96	2152	7464	2.10	1242.17	1231	17	8.0		AG-110M
										I-132
										I-134
										RU-106
1	629.93	8221	9031	1.81	1260.11	1253	14	2.7	2.88E+00	I-134
										TE-132
										I-132
1	636.73	12426	8822	1.80	1273.72	1267	14	1.9	1.34E+00	SB-125
										I-131
1	642.61	337	4270	1.31	1285.48	1283	7	32.5	1.62E+00	LA-142
1	650.17	1840	7131	2.02	1300.61	1295	12	9.4	1.07E+00	I-135
										I-132
4	661.36	9528	7474	1.79	1322.99	1318	32	2.0	6.93E+00	CS-137
4	667.45	59972	6385	1.86	1335.18	1318	32	0.5		TE-132
										I-132
4	670.45	5304	9537	2.94	1341.17	1318	32	6.6		I-132
										I-132
										SB-125
4	676.98	899	3896	2.42	1354.24	1350	18	12.5	8.24E-01	AG-110M
										I-134
										AG-110M
4	679.89	1148	5295	1.79	1360.06	1350	18	12.8		I-133
1	706.50	2752	6122	2.13	1413.27	1407	14	6.4	2.17E+00	AG-110M
										I-133
										I-135
4	722.64	2905	4790	1.89	1445.56	1438	26	5.0	3.49E+00	I-131
4	726.89	3697	5600	2.19	1454.07	1438	26	4.6		I-132
										I-132
1	739.22	1611	4146	1.86	1478.74	1474	10	8.0	7.80E-01	I-134
8	767.86	1830	6113	3.83	1536.03	1528	37	12.3	4.33E+00	I-134
										I-133

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
8	772.35	40588	4389	1.94	1544.99	1528	37	0.6		TE-132
8	779.83	558	3730	1.63	1559.97	1528	37	21.0		I-132
1	795.53	8190	5620	1.93	1591.36	1584	15	2.3	8.88E-01	I-132
1	801.74	711	3218	1.52	1603.79	1600	9	15.0	7.43E-01	CS-134
1	810.64	9518	6726	3.04	1621.60	1613	18	2.2	5.06E+00	CS-134
1	818.23	4017	5103	1.94	1636.77	1630	14	4.1	8.72E-01	I-132
1	836.54	4520	4733	2.09	1673.40	1666	15	3.7	1.03E+00	CO-58
1	846.78	6230	5081	1.93	1693.88	1686	17	2.9	3.04E+00	AG-110M
1	856.15	2355	4989	2.49	1712.63	1704	17	7.2	1.76E+00	CS-136
1	862.80	398	2725	2.36	1725.94	1722	9	24.0	1.27E+00	I-135
1	875.13	6000	5250	2.08	1750.60	1743	17	3.1	2.15E+00	I-134
1	883.82	3967	4308	1.97	1767.97	1761	14	3.8	8.47E-01	I-133
1	909.91*	917	3621	2.31	1820.16	1814	13	14.2	2.08E+00	I-134
1	927.42	308	2652	2.41	1855.19	1850	11	33.7	6.03E-01	AG-110M
1	947.42	358	2080	2.80	1895.18	1891	9	23.4	5.77E-01	I-132
1	954.36	7834	4001	2.06	1909.07	1900	17	2.2	3.24E+00	I-132
3	972.07	1369	2383	2.10	1944.51	1939	16	7.7	1.19E+00	TE-132
1	984.23	210	1326	1.11	1968.82	1966	6	28.8	2.67E+00	I-135
1	1009.39	262	2159	1.99	2019.16	2015	10	33.7	9.34E-01	I-135
1	1038.56	4488	2984	2.07	2077.50	2072	13	3.0	5.00E-01	CS-138
1	1047.84	2615	2922	2.11	2096.07	2089	13	4.7	1.94E+00	CO-56
1	1052.13	422	1880	1.79	2104.64	2101	9	20.1	1.68E+00	CS-134
1	1072.34	934	2331	2.70	2145.06	2137	15	11.9	1.56E+00	I-135
1	1101.27	928	2465	2.43	2202.94	2195	17	12.7	9.53E-01	I-134
1	1123.82	1918	1767	2.24	2248.04	2242	12	5.0	2.13E+00	I-135
2	1131.38	12071	1991	2.23	2263.16	2255	26	1.2	2.70E+00	I-135
2	1135.90	1694	1883	2.13	2272.21	2255	26	6.2		I-132
1	1143.35	627	1735	2.45	2287.12	2280	13	14.5	1.28E+00	I-134
1	1148.71	250	1587	2.05	2297.83	2293	13	34.0	1.09E+00	I-132
1	1168.91	420	1533	2.06	2338.24	2333	10	18.1	1.67E+00	CS-138
1	1173.42	475	1258	2.46	2347.26	2343	10	14.9	2.94E+00	CS-134
4	1236.03	2041	1441	2.43	2472.50	2463	24	4.8	1.59E+00	I-135
4	1240.30	405	1052	2.48	2481.04	2463	24	17.0		CO-60
1	1260.32	14185	2003	2.30	2521.08	2511	21	1.2	8.22E+00	CS-136

Post-NID Peak Search Report (continued)
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It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	1290.66	418	1234	2.53	2581.76	2573	34	19.1	9.39E+00	I-132
										FE-59
5	1298.04	2901	1142	2.52	2596.53	2573	34	3.3		I-133
3	1368.30	416	1040	1.75	2737.08	2732	21	14.6	1.08E+00	I-135
										NA-24
3	1371.98	836	1181	2.31	2744.44	2732	21	9.7		I-132
1	1398.52	2501	1250	2.44	2797.52	2787	20	4.1	2.35E+00	TE-132
										I-132
5	1435.61	575	758	2.14	2871.71	2861	31	11.2		CS-138
5	1442.16	676	782	2.76	2884.80	2861	31	9.5		I-132
1	1457.56	3980	1319	2.53	2915.62	2905	22	2.8	4.47E+00	I-135
1	1502.79	599	630	3.31	3006.10	2998	15	10.2	1.76E+00	I-135
1	1566.42	579	577	2.50	3133.37	3123	17	10.9	1.55E+00	I-135
1	1613.28	232	332	3.83	3227.11	3223	13	18.3	2.46E+00	I-134
1	1678.22	4094	437	2.74	3357.00	3346	20	2.0	8.06E+00	I-135
1	1706.58	1710	408	2.81	3413.74	3404	19	3.9	1.07E+00	I-135
1	1791.39	3003	421	2.77	3583.37	3574	20	2.5	2.21E+00	I-135
1	1807.32	195	228	2.61	3615.23	3608	13	18.7	1.67E+00	I-134
3	1830.84	234	147	3.26	3662.28	3656	29	12.8	1.39E+00	I-135
3	1836.11	160	218	3.26	3672.83	3656	29	27.5		RB-88
										Y-88
1	1921.14	338	211	3.32	3842.91	3832	17	11.5	1.80E+00	I-132
1	1927.64	99	130	3.42	3855.91	3852	15	30.4	2.16E+00	
1	2002.44	315	123	2.84	4005.54	3996	17	10.4	1.15E+00	I-132

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig	Err
NA-24	AP	1368.55	416.	100.00*	6.031E-04	6.115E-03	8.930E-04	
CR-51	AP	320.07	589.	9.83*	1.517E-03	3.342E-02	1.138E-02	
CO-56	AP	846.75	6230.	99.99	8.184E-04	6.435E-02	1.891E-03	
		1037.83	4488.	14.00	7.190E-04	3.768E-01	1.126E-02	
		1771.49	0.	15.70*	7.190E-04	0.000E+00	0.000E+00	
MN-56	AP	846.60	6230.	99.00	8.184E-04	8.598E-02	2.527E-03	
		1811.20	0.	27.20*	8.184E-04	0.000E+00	0.000E+00	
CO-58	AP	511.00	15561.	30.00	1.149E-03	3.815E-01	7.422E-03	
		810.75	9518.	99.45*	8.426E-04	9.601E-02	2.144E-03	
		863.94	398.	0.69	8.082E-04	6.027E-01	1.447E-01	
FE-59	AP	1099.22	0.	56.50*	8.082E-04	0.000E+00	0.000E+00	
		1291.56	418.	43.20	6.275E-04	1.304E-02	2.489E-03	
CO-60	AP	1173.23	475.	99.86*	6.665E-04	6.026E-03	8.994E-04	
SE-75	AP	136.00	1945.	56.02*	2.169E-03	1.353E-02	1.950E-03	
RB-88	FP	898.03	0.	14.50*	2.169E-03	0.000E+00	0.000E+00	
		1836.00	160.	22.10	4.871E-04	1.423E-01	3.911E-02	
Y-88	FP	898.02	0.	94.00*	4.871E-04	0.000E+00	0.000E+00	
		1836.01	160.	99.36	4.871E-04	2.802E-03	7.703E-04	
RU-106	FP	621.80	2152.	9.81*	1.006E-03	1.842E-01	1.473E-02	
CD-109	FP	88.04	1434.	3.79*	1.945E-03	1.643E-01	3.111E-02	
AG-110M	AP	620.35	2152.	2.78	1.006E-03	6.508E-01	5.205E-02	
		676.60	899.	0.14	9.496E-04	5.632E+00	7.043E-01	
		677.61	899.	10.72	9.496E-04	7.466E-02	9.336E-03	

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
AG-110M	AP	706.67	2752.	16.74	9.231E-04	1.505E-01	9.581E-03
		818.02	4017.	7.32	8.374E-04	5.536E-01	2.257E-02
		884.67	3967.	72.86*	7.954E-04	5.785E-02	2.216E-03
CD-113M	FP	263.70	2972.	0.01*	1.665E-03	2.513E+02	2.744E+01
SB-122	AP	564.08	1261.	71.00*	1.076E-03	1.411E-02	1.643E-03
SB-125	FP	176.29	2199.	6.30	2.030E-03	1.453E-01	2.211E-02
		427.95	0.	29.60*	2.030E-03	0.000E+00	0.000E+00
		463.51	604.	10.00	1.229E-03	4.149E-02	1.214E-02
I-131	HFP	636.15	12426.	11.20	9.895E-04	9.473E-01	1.755E-02
		671.66	5304.	1.80	9.557E-04	2.605E+00	1.730E-01
		80.18	9437.	2.62	1.825E-03	1.673E+00	6.571E-02
		177.21	2199.	0.27	2.030E-03	3.466E+00	5.274E-01
		284.29	19178.	6.06	1.606E-03	1.672E+00	3.874E-02
		325.78	783.	0.25	1.503E-03	1.761E+00	4.481E-01
		364.48	208823.	81.24*	1.427E-03	1.527E+00	4.586E-03
		502.99	1235.	0.36	1.161E-03	2.500E+00	3.284E-01
		636.97	12426.	7.27	9.895E-04	1.465E+00	2.715E-02
		722.89	2905.	1.80	9.094E-04	1.502E+00	7.456E-02
I-132	HFP	262.70	2972.	1.44	1.665E-03	1.418E+00	1.549E-01
		284.80	19178.	0.79	1.606E-03	1.730E+01	4.008E-01
		505.90	3982.	5.00	1.156E-03	7.880E-01	4.662E-02
		522.65	11403.	16.10	1.132E-03	7.160E-01	1.389E-02
		547.10	6977.	1.25	1.098E-03	5.814E+00	1.872E-01
		621.20	2152.	1.60	1.006E-03	1.529E+00	1.223E-01
		630.22	8221.	13.70	9.967E-04	6.888E-01	1.855E-02
		650.60	1840.	2.70	9.756E-04	7.993E-01	7.486E-02
		667.69	59972.	98.70*	9.586E-04	7.252E-01	3.577E-03
		669.80	5304.	5.00	9.557E-04	1.270E+00	8.435E-02
		671.60	5304.	5.20	9.557E-04	1.221E+00	8.111E-02
		727.20	3697.	5.40	9.058E-04	8.648E-01	3.939E-02
		728.10	3697.	2.20	9.058E-04	2.123E+00	9.669E-02
		772.61	40588.	76.20	8.700E-04	7.005E-01	4.194E-03
		780.20	558.	1.23	8.645E-04	6.002E-01	1.260E-01
		809.80	9518.	2.90	8.426E-04	4.457E+00	9.954E-02
		910.30	917.	0.92	7.805E-04	1.461E+00	2.071E-01
		954.55	7834.	18.10	7.578E-04	6.535E-01	1.423E-02
		1136.03	1694.	3.00	6.801E-04	9.500E-01	5.854E-02
		1143.40	627.	1.40	6.774E-04	7.563E-01	1.099E-01
		1173.20	475.	1.10	6.665E-04	7.409E-01	1.106E-01
		1290.70	418.	1.14	6.275E-04	6.686E-01	1.276E-01
		1372.07	836.	2.50	6.019E-04	6.359E-01	6.154E-02
		1398.57	2501.	7.10	5.934E-04	6.793E-01	2.789E-02
		1442.56	676.	1.42	5.803E-04	9.382E-01	8.913E-02
TE-132	FP	522.65	11403.	16.10	1.132E-03	5.336E-01	1.035E-02
		630.22	8221.	13.70	9.967E-04	5.134E-01	1.383E-02
		667.69	59972.	98.70	9.586E-04	5.405E-01	2.665E-03
		772.61	40588.	76.20*	8.700E-04	5.220E-01	3.126E-03
		954.55	7834.	18.10	7.578E-04	4.870E-01	1.060E-02
I-133	HFP	1398.57	2501.	7.10	5.934E-04	5.062E-01	2.079E-02
		263.40	2972.	0.44	1.665E-03	3.572E+00	3.900E-01
		422.90	1055.	0.26	1.311E-03	2.684E+00	4.672E-01
		529.50	153679.	87.50*	1.121E-03	1.371E+00	3.940E-03
		618.00	1067.	0.37	1.010E-03	2.516E+00	3.373E-01
		680.80	1148.	0.77	9.469E-04	1.379E+00	1.772E-01
		707.40	2752.	1.58	9.231E-04	1.657E+00	1.055E-01

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Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-133	HFP	769.10	1830.	0.47	8.734E-04	3.882E+00	4.775E-01
		856.10	2355.	1.23	8.124E-04	2.072E+00	1.498E-01
		875.30	6000.	4.55	8.006E-04	1.442E+00	4.427E-02
		910.50	917.	0.38	7.805E-04	2.671E+00	3.786E-01
		1052.80	422.	0.50	7.132E-04	1.038E+00	2.090E-01
		1237.50	2041.	1.58	6.447E-04	1.760E+00	8.438E-02
		1298.90	2901.	2.19	6.253E-04	1.856E+00	6.060E-02
XE-133	FG	79.62	9437.	0.22	1.825E-03	1.997E+01	7.843E-01
		81.00	9437.	37.10*	1.825E-03	1.184E-01	4.651E-03
CS-134	FP	563.26	1261.	8.38	1.076E-03	1.182E-01	1.377E-02
		569.29	1947.	15.43	1.068E-03	9.980E-02	9.784E-03
		604.66	11033.	97.60	1.025E-03	9.316E-02	2.217E-03
		795.76	8190.	85.40*	8.531E-04	9.497E-02	2.162E-03
		801.84	711.	8.73	8.487E-04	8.105E-02	1.217E-02
		1038.50	4488.	1.00	7.190E-04	5.273E+00	1.576E-01
		1167.86	420.	1.80	6.681E-04	2.953E-01	5.332E-02
I-134	HFP	135.44	1945.	3.26	2.169E-03	5.290E-01	7.628E-02
		319.80	589.	0.51	1.517E-03	1.465E+00	4.986E-01
		405.44	734.	7.35	1.349E-03	1.424E-01	3.707E-02
		433.30	678.	4.45	1.288E-03	2.276E-01	5.565E-02
		540.80	821.	8.60	1.107E-03	1.659E-01	3.029E-02
		595.40	623.	11.20	1.036E-03	1.033E-01	2.494E-02
		621.75	2152.	10.90	1.006E-03	3.773E-01	3.018E-02
		628.60	8221.	2.28	9.967E-04	6.957E+00	1.874E-01
		677.34	899.	8.20	9.496E-04	2.222E-01	2.778E-02
		739.30	1611.	0.60	8.958E-04	5.763E+00	4.601E-01
		766.68	1830.	3.83	8.734E-04	1.052E+00	1.294E-01
		847.03	6230.	96.00*	8.184E-04	1.525E-01	4.482E-03
		857.28	2355.	6.60	8.124E-04	8.449E-01	6.107E-02
		884.08	3967.	66.00	7.954E-04	1.454E-01	5.568E-03
		947.80	358.	4.00	7.612E-04	2.262E-01	5.293E-02
		1040.00	4488.	2.00	7.190E-04	6.002E+00	1.793E-01
		1072.53	934.	14.30	7.048E-04	1.783E-01	2.120E-02
		1136.12	1694.	9.15	6.801E-04	5.236E-01	3.226E-02
		1613.70	232.	4.00	5.350E-04	2.085E-01	3.819E-02
		1806.90	195.	5.60	4.927E-04	1.359E-01	2.548E-02
I-135	HFP	220.50	2593.	1.75	1.815E-03	7.716E-01	9.219E-02
		288.45	3655.	3.09	1.595E-03	6.990E-01	5.293E-02
		417.63	5029.	3.52	1.323E-03	1.018E+00	5.484E-02
		433.74	678.	0.55	1.288E-03	8.988E-01	2.198E-01
		526.56	11035.	13.33	1.126E-03	6.927E-01	1.662E-02
		530.80	153679.	0.03	1.121E-03	4.099E+03	1.178E+01
		546.56	6977.	7.12	1.098E-03	8.406E-01	2.707E-02
		649.85	1840.	0.45	9.756E-04	3.909E+00	3.661E-01
		707.92	2752.	0.66	9.231E-04	4.271E+00	2.719E-01
		836.80	4520.	6.66	8.251E-04	7.747E-01	2.832E-02
		972.61	1369.	1.20	7.493E-04	1.433E+00	1.097E-01
		1038.76	4488.	7.92	7.190E-04	7.424E-01	2.219E-02
		1101.58	928.	1.60	6.933E-04	7.870E-01	9.983E-02
		1124.00	1918.	3.60	6.847E-04	7.324E-01	3.689E-02
		1131.51	12071.	22.51	6.818E-04	7.412E-01	8.769E-03
		1169.04	420.	0.87	6.681E-04	6.797E-01	1.227E-01
		1240.00	405.	0.90	6.433E-04	6.589E-01	1.119E-01
		1260.41	14185.	28.60*	6.369E-04	7.339E-01	8.534E-03
		1367.89	416.	0.61	6.031E-04	1.072E+00	1.566E-01

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Page : 7
Acquisition date : 1-SEP-1995 14:26:18

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-135	HFP	1457.56	3980.	8.64	5.759E-04	7.539E-01	2.096E-02
		1502.79	599.	1.07	5.633E-04	9.351E-01	9.549E-02
		1566.41	579.	1.29	5.466E-04	7.756E-01	8.474E-02
		1678.03	4094.	9.52	5.199E-04	7.792E-01	1.585E-02
		1706.46	1710.	4.09	5.136E-04	7.671E-01	2.965E-02
		1791.20	3003.	7.69	4.959E-04	7.419E-01	1.886E-02
		1830.69	234.	0.58	4.881E-04	7.834E-01	1.005E-01
XE-135	FG	249.79	6800.	90.30*	1.705E-03	4.041E-02	2.071E-03
XE-135M	FG	526.81	11035.	80.00*	1.126E-03	1.643E+00	3.943E-02
CS-136	FP	86.29	1434.	6.33	1.945E-03	9.861E-02	1.867E-02
		176.56	2199.	13.60	2.030E-03	6.747E-02	1.027E-02
		273.65	748.	12.70	1.634E-03	3.050E-02	1.034E-02
		340.57	3471.	46.90*	1.472E-03	4.256E-02	3.388E-03
		818.50	4017.	100.00	8.374E-04	4.063E-02	1.656E-03
		1048.07	2615.	80.00	7.151E-04	3.871E-02	1.836E-03
		1235.34	2041.	19.80	6.447E-04	1.354E-01	6.492E-03
CS-137	FP	661.62	9528.	84.62*	9.645E-04	9.863E-02	1.946E-03
CS-138	FP	462.79	604.	30.75	1.229E-03	5.167E-02	1.512E-02
		546.94	6977.	10.76	1.098E-03	1.910E+00	6.151E-02
		1009.78	262.	29.83	7.320E-04	3.881E-02	1.307E-02
		1147.22	250.	1.24	6.754E-04	9.629E-01	3.276E-01
		1435.86	575.	76.30*	5.822E-04	4.188E-02	4.681E-03
LA-142	FP	641.17	337.	52.50*	9.833E-04	8.808E-03	2.859E-03

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	72.79	4346	28606	1.36	145.68	141	13	6.79E+00	7.0	1.67E-01	
2	74.93	7604	28921	1.33	149.97	141	13	1.19E+01	4.1	1.72E-01	T
1	535.76	2456	9395	1.83	1071.74	1068	10	3.84E+00	7.8	1.11E-01	
1	927.42	308	2652	2.41	1855.19	1850	11	4.81E-01	33.7	7.71E-02	
1	984.23	210	1326	1.11	1968.82	1966	6	3.28E-01	28.8	7.44E-02	
1	1927.64	99	130	3.42	3855.91	3852	15	1.55E-01	30.4	0.00E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of peaks in spectrum 105
Number of peaks identified by NID 100 95.24%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
XE-133	FG	5.29D	1.006	1.184E-01	4.651E-03
XE-135	FG	9.08H	1.083	4.041E-02	2.071E-03
XE-135M	FG	15.60M	15.877	1.643E+00	3.943E-02
I-131	HFP	8.04D	1.004	1.527E+00	4.586E-03
I-132	HFP	2.38H	1.354	7.252E-01	3.577E-03
I-133	HFP	20.30H	1.036	1.371E+00	3.940E-03
I-134	HFP	52.60M	2.277	1.525E-01	4.482E-03
I-135	HFP	6.61H	1.115	7.339E-01	8.534E-03
RB-88	FP	17.80M	11.297	0.000E+00	0.000E+00
Y-88	FP	106.60D	1.000	0.000E+00	0.000E+00
RU-106	FP	368.20D	1.000	1.842E-01	1.473E-02

Summary of Nuclide Activity
Sample ID : 2 RCS Liquid

Page : 8
Acquisition date : 1-SEP-1995 14:26:18

Total number of peaks in spectrum 105
Number of peaks identified by NID 100 95.24%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
CD-109	FP	453.28D	1.000	1.643E-01	3.111E-02
CD-113M	FP	14.60Y	1.000	2.513E+02	2.744E+01
SB-125	FP	2.77Y	1.000	0.000E+00	0.000E+00
TE-132	FP	3.25D	1.009	5.220E-01	3.126E-03
CS-134	FP	2.06Y	1.000	9.497E-02	2.162E-03
CS-136	FP	12.98D	1.002	4.256E-02	3.388E-03
CS-137	FP	30.10Y	1.000	9.863E-02	1.946E-03
CS-138	FP	32.20M	3.829	4.188E-02	4.681E-03
LA-142	FP	1.54H	1.597	8.808E-03	2.859E-03
NA-24	AP	15.03H	1.049	6.115E-03	8.930E-04
CR-51	AP	27.70D	1.001	3.342E-02	1.138E-02
CO-56	AP	77.30D	1.000	0.000E+00	0.000E+00
MN-56	AP	2.58H	1.323	0.000E+00	0.000E+00
CO-58	AP	70.78D	1.000	9.601E-02	2.144E-03
FE-59	AP	45.10D	1.001	0.000E+00	0.000E+00
CO-60	AP	5.27Y	1.000	6.026E-03	8.994E-04
SE-75	AP	120.40D	1.000	1.353E-02	1.950E-03
AG-110M	AP	249.90D	1.000	5.785E-02	2.216E-03
SB-122	AP	2.70D	1.011	1.411E-02	1.643E-03

Interference correction summary

Isotope	uCi/cc	Corrections applied BPS : below peak sensitivity
NA-24	= 0.000E+00	bps: I-135
CR-51	= 0.000E+00	bps: I-134
CO-58	= 8.039E-02	I-132
CO-60	= 0.000E+00	bps: I-132
SE-75	= 9.626E-03	I-134
RU-106	= 0.000E+00	bps: I-132 I-134
CD-109	= 9.339E-02	CS-136
AG-110M	= 0.000E+00	bps: I-134
CD-113M	= 0.000E+00	bps: I-132 I-133
SB-122	= 0.000E+00	bps: CS-134
I-131	= 1.53	

Interference correction summary
Sample ID : 2 RCS Liquid

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Acquisition date : 1-SEP-1995 14:26:18

Isotope uCi/cc Corrections applied BPS : below peak sensitivity

I-132 = 0.725

TE-132 = 0.522

I-133 = 1.37 I-135

XE-133 = 0.000E+00 bps: I-131

CS-134 = 9.497E-02

I-134 = 0.153

I-135 = 0.734

XE-135 = 4.041E-02

XE-135M = 0.000E+00 bps: I-135

CS-136 = 4.256E-02

CS-137 = 9.863E-02

CS-138 = 4.188E-02

LA-142 = 8.808E-03

Cs-137eq= 8.197E+00

Interference report Completed

Fission Product Report

Sample ID : 2 RCS Liquid

Sampled : 1-SEP-1995 13:30:00

Acquired: 1-SEP-1995 14:26:18

Nuclide	Activity
I-131	1.527E+00 uCi/ml
I-132	7.252E-01 uCi/ml
I-133	1.371E+00 uCi/ml
I-134	1.525E-01 uCi/ml
I-135	7.339E-01 uCi/ml
Cs-134	9.497E-02 uCi/ml
Cs-136	4.256E-02 uCi/ml
Cs-137	9.863E-02 uCi/ml
I-131DE	1.988E+00 uCi/ml
I-131/I-133 ratio	1.114E+00
Cs-134/Cs-137 ratio	9.629E-01
Cs-136/Cs-137 ratio	4.315E-01

RCS Boron : ppm

Entergy Operations : ANO - Nuclear Chemistry Department - 1-SEP-1995 21:20

Main Spectra: 95-07867

Bkg Spectra : 95-07831

Sample date : 1-SEP-1995 20:00:00 Isolation date : 1-SEP-1995 20:00:00
Sample ID : 2 RCS Liquid Sample Quantity : 5.00000E+00 ml
Comments :
Geometry : TABLE 302 60 CC BOTTLE CAVE 3 SHELF 2

Calib date : 31-AUG-1995 22:02:2 Acquisition date : 1-SEP-1995 21:10:41
keV/channel : 4.99928E-01 Elapsed live time: 0 00:08:40.35
offset : -4.04297E-02 Percent deadtime : 9.7%

Decay limit : 8.00000 Peak Sensitivity : 3.00000
Abundance : 30.00000 Energy tolerance : 1.50000
Library : Libark Nuclear Chemist : JAMES

Peak Search performed from channel : 100 to 4050

Post-NID Peak Search Report

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	66.96	1478	16361	1.34	134.02	130	8	15.2	9.26E-01	
5	72.71	2557	14302	1.56	145.52	142	24	8.0	2.76E+00	
5	75.01*	4113	16362	1.36	150.12	142	24	5.7		
5	80.20	9601	18453	1.43	160.51	142	24	2.8		XE-133 I-131 XE-133
1	84.23*	3079	21389	2.85	168.57	166	10	8.9	2.96E+01	
1	140.54	1224	17327	1.02	281.20	279	6	17.3	8.40E-01	TC-99M MO-99
1	153.41	853	20013	1.30	306.94	305	6	26.4	4.28E-01	CS-136
1	176.81	3441	31266	1.91	353.74	350	9	9.4	8.82E-01	CS-136 I-131
1	220.43	1380	17374	1.42	441.01	438	7	16.0	2.78E+00	I-135
1	249.71	3713	14398	1.64	499.56	496	8	5.8	4.84E+00	XE-135
1	262.66	1191	13139	1.59	525.48	522	8	16.9	1.00E+00	I-132 I-133 CD-113M
1	273.43*	1629	13492	1.89	547.03	543	9	13.2	7.80E-01	CS-136
4	281.92	439	2902	1.62	564.00	563	19	15.3	2.27E+00	
4	284.18	18022	12944	1.49	568.53	563	19	1.4		I-131 I-132
4	288.40	1942	12783	1.57	576.97	563	19	10.9		I-135
1	325.69	672	9806	1.40	651.56	648	7	24.6	7.06E-01	I-131
1	340.42	4216	15364	1.56	681.02	676	11	5.9	4.24E-01	CS-136
1	364.32	196572	17974	1.57	728.83	721	15	0.3	1.07E+01	I-131
1	417.61	2392	6671	1.57	835.43	831	9	6.5	2.85E+00	I-135
1	423.12	847	5457	2.54	846.44	843	8	15.6	2.22E+00	I-133
3	502.77	789	5764	1.75	1005.76	1001	29	19.1	3.24E+00	I-131
3	505.69	1350	6244	1.93	1011.60	1001	29	12.1		I-132
3	510.46*	5334	7180	2.31	1021.14	1001	29	3.7		CO-58
4	522.45	3521	5099	1.67	1045.13	1038	39	4.1	4.87E+00	TE-132 I-132
4	526.55	5976	6528	2.13	1053.33	1038	39	5.1		I-135 XE-135M

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	529.66	118296	4785	1.70	1059.55	1038	39	0.3		I-133
										I-135
4	535.83	1627	4448	2.00	1071.89	1038	39	8.3		
1	546.39	3384	4410	1.91	1093.02	1088	11	4.2	2.58E+00	I-135
										I-132
1	563.01	1214	4060	2.02	1126.26	1122	10	10.2	1.62E+00	CS-134
										SB-122
1	569.08	2015	4359	1.63	1138.39	1133	11	6.7	5.23E-01	CS-134
1	604.47	13298	4741	1.74	1209.19	1203	13	1.4	1.46E+00	CS-134
4	617.72	630	3446	1.78	1235.69	1230	16	18.5	5.38E-01	I-133
1	629.98	2553	3514	1.81	1260.22	1254	12	5.0	1.77E+00	TE-132
										I-132
1	636.76	11873	3907	1.79	1273.78	1267	14	1.5	1.85E+00	I-131
1	642.63	413	2657	2.18	1285.53	1281	10	23.8	7.69E-01	LA-142
1	650.29	885	3329	3.06	1300.84	1294	13	13.7	3.99E+00	I-135
										I-132
4	661.40	12413	3052	1.85	1323.07	1315	39	1.2	1.92E+01	CS-137
4	667.49	19390	3013	1.92	1335.26	1315	39	0.9		TE-132
										I-132
1	679.94	884	2970	2.23	1360.15	1353	14	13.7	5.79E-01	I-133
1	706.42	1913	2816	2.22	1413.11	1406	15	6.6	4.95E-01	I-133
3	722.64	2745	2066	1.85	1445.56	1439	23	3.8	1.09E+00	I-131
3	726.75	1271	2691	2.46	1453.80	1439	23	10.0		I-132
										I-132
7	739.25	1231	1802	1.86	1478.79	1471	21	7.4	1.93E+00	MO-99
7	743.23	330	1716	1.82	1486.76	1471	21	26.0		ZR-97
3	768.14	363	1336	1.91	1536.59	1533	19	17.9	1.87E+00	I-133
3	772.38	11925	2173	1.91	1545.06	1533	19	1.2		TE-132
										I-132
1	780.40	221	1266	1.51	1561.10	1558	8	29.6	1.84E+00	I-132
1	795.58	9918	2205	1.94	1591.46	1585	14	1.4	2.37E+00	CS-134
1	801.74	1016	1476	1.75	1603.79	1599	10	7.9	8.08E-01	CS-134
1	810.59	4474	2501	2.56	1621.49	1613	17	3.0	4.10E+00	I-132
										CO-58
1	818.25	5253	2404	2.01	1636.82	1630	18	2.7	3.13E+00	CS-136
1	836.61	2104	1603	1.98	1673.54	1668	12	4.5	1.17E+00	I-135
1	856.00	1298	1803	2.07	1712.32	1706	14	7.7	1.20E+00	I-133
1	863.05	170	1122	1.75	1726.42	1723	9	37.1	5.64E-01	CO-58
1	875.10	4366	2001	2.03	1750.53	1742	16	2.8	2.03E+00	I-133
1	909.66*	411	1218	2.56	1819.67	1815	11	17.7	8.49E-01	I-132
										I-133
1	954.37	2364	1420	1.99	1909.09	1902	14	4.0	1.91E+00	TE-132
										I-132
1	972.14	630	1168	2.30	1944.64	1939	12	11.7	7.28E-01	I-135
1	1038.58	2141	1500	2.18	2077.54	2069	16	4.6	1.54E+00	CS-134
										I-135
2	1047.90	3429	1028	2.16	2096.18	2086	25	2.6	2.04E+00	CS-136
2	1052.24	489	871	2.15	2104.86	2086	25	15.3		I-133
5	1101.24	461	676	2.04	2202.87	2191	19	12.3		I-135
4	1123.90	939	783	2.11	2248.21	2242	36	6.9	2.50E+00	I-135
4	1131.42	5745	732	2.25	2263.26	2242	36	1.7		I-135

Post-NID Peak Search Report (continued)
Sample ID : 2 RCS Liquid

Page : 3
Acquisition date : 1-SEP-1995 21:10:41

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	1136.01	422	499	1.91	2272.42	2242	36	12.9		I-132
1	1143.52	160	580	2.42	2287.44	2282	12	31.6	1.13E+00	I-132
1	1157.53	100	507	1.84	2315.47	2311	10	44.0	1.07E+00	
7	1168.16	375	679	3.15	2336.74	2329	23	16.3	1.29E+00	CS-134
										I-135
7	1235.95	2003	522	2.84	2472.34	2463	26	3.6	1.92E+00	CS-136
7	1240.66	226	405	2.36	2481.76	2463	26	23.6		I-135
1	1260.37	6684	711	2.31	2521.18	2512	19	1.6	3.67E+00	I-135
8	1290.72	155	215	2.01	2581.90	2578	27	19.1	5.70E+00	I-132
										FE-59
8	1298.09	1878	451	2.51	2596.64	2578	27	3.5		I-133
5	1365.28*	294	258	2.74	2731.03	2725	25	14.0	1.53E+00	CS-134
5	1368.16	430	356	2.59	2736.80	2725	25	12.5		I-135
										NA-24
5	1371.88	242	277	2.33	2744.23	2725	25	16.8		I-132
1	1398.80	684	524	2.25	2798.08	2790	20	9.2	8.37E-01	TE-132
										I-132
1	1441.65	102	314	2.48	2883.80	2878	12	36.7	1.41E+00	I-132
1	1457.58	1887	450	2.42	2915.66	2905	20	3.7	1.99E+00	I-135
1	1503.24	148	283	2.40	3006.99	3000	14	26.6	9.90E-01	I-135
1	1566.45	255	180	2.41	3133.44	3126	15	14.1	7.49E-01	I-135
1	1678.31	1916	189	2.94	3357.18	3346	20	2.9	8.37E+00	I-135
1	1706.69	814	119	2.87	3413.95	3403	26	5.5	1.57E+00	I-135
1	1791.46	1522	100	2.90	3583.52	3573	20	3.1	2.85E+00	I-135
1	1830.80	137	48	3.32	3662.20	3656	15	15.8	6.13E-01	I-135
1	1920.73	100	54	3.58	3842.09	3836	15	20.2	1.54E+00	I-132
1	2002.69	121	17	2.74	4006.03	3997	17	14.2	8.32E-01	I-132

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Acquisition date : 1-SEP-1995 21:10:41

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
NA-24	AP	1368.55	430.	100.00*	1.301E-03	3.640E-03	4.532E-04
CO-58	AP	511.00	5334.	30.00	2.569E-03	7.192E-02	2.637E-03
		810.75	4474.	99.45*	1.872E-03	2.498E-02	7.570E-04
		863.94	170.	0.69	1.794E-03	1.432E-01	5.318E-02
FE-59	AP	1099.22	0.	56.50*	1.794E-03	0.000E+00	0.000E+00
		1291.56	155.	43.20	1.359E-03	2.743E-03	5.233E-04
ZR-97	FP	743.36	330.	98.00*	1.985E-03	1.856E-03	4.833E-04
MO-99	FP	140.51	1224.	90.90	5.103E-03	2.777E-03	4.798E-04
		739.47	1231.	13.00*	1.992E-03	5.002E-02	3.684E-03
TC-99M	FP	140.51	1224.	89.30*	5.103E-03	2.827E-03	4.884E-04
CD-113M	FP	263.70	1191.	0.01*	3.784E-03	5.450E+01	9.199E+00
SB-122	AP	564.08	1214.	71.00*	2.403E-03	7.496E-03	7.633E-04
I-131	HFP	80.18	9601.	2.62	4.407E-03	8.673E-01	2.392E-02
		177.21	3441.	0.27	4.810E-03	2.816E+00	2.661E-01
		284.29	18022.	6.06	3.635E-03	8.541E-01	1.169E-02
		325.78	672.	0.25	3.390E-03	8.245E-01	2.028E-01
		364.48	196572.	81.24*	3.209E-03	7.869E-01	2.122E-03
		502.99	789.	0.36	2.596E-03	8.794E-01	1.683E-01
		636.97	11873.	7.27	2.205E-03	7.731E-01	1.129E-02
		722.89	2745.	1.80	2.023E-03	7.849E-01	2.954E-02

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Page : 4
Acquisition date : 1-SEP-1995 21:10:41

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-132	HFP	262.70	1191.	1.44	3.784E-03	3.276E-01	5.529E-02
		284.80	18022.	0.79	3.635E-03	9.404E+00	1.287E-01
		505.90	1350.	5.00	2.586E-03	1.564E-01	1.898E-02
		522.65	3521.	16.10	2.529E-03	1.296E-01	5.342E-03
		547.10	3384.	1.25	2.453E-03	1.654E+00	6.898E-02
		630.22	2553.	13.70	2.222E-03	1.257E-01	6.294E-03
		650.60	885.	2.70	2.173E-03	2.260E-01	3.092E-02
		667.69	19390.	98.70*	2.135E-03	1.379E-01	1.276E-03
		727.20	1271.	5.40	2.015E-03	1.750E-01	1.753E-02
		728.10	1271.	2.20	2.015E-03	4.295E-01	4.304E-02
		772.61	11925.	76.20	1.934E-03	1.213E-01	1.456E-03
		780.20	221.	1.23	1.920E-03	1.401E-01	4.142E-02
		809.80	4474.	2.90	1.872E-03	1.235E+00	3.743E-02
		910.30	411.	0.92	1.731E-03	3.863E-01	6.836E-02
		954.55	2364.	18.10	1.679E-03	1.166E-01	4.642E-03
		1136.03	422.	3.00	1.501E-03	1.405E-01	1.810E-02
		1143.40	160.	1.40	1.495E-03	1.143E-01	3.616E-02
		1290.70	155.	1.14	1.359E-03	1.498E-01	2.858E-02
		1372.07	242.	2.50	1.298E-03	1.115E-01	1.875E-02
		1398.57	684.	7.10	1.281E-03	1.127E-01	1.034E-02
		1442.56	102.	1.42	1.254E-03	8.609E-02	3.161E-02
TE-132	FP	522.65	3521.	16.10	2.529E-03	9.085E-02	3.745E-03
		630.22	2553.	13.70	2.222E-03	8.812E-02	4.412E-03
		667.69	19390.	98.70	2.135E-03	9.667E-02	8.944E-04
		772.61	11925.	76.20*	1.934E-03	8.501E-02	1.021E-03
		954.55	2364.	18.10	1.679E-03	8.171E-02	3.254E-03
I-133	HFP	1398.57	684.	7.10	1.281E-03	7.899E-02	7.252E-03
		263.40	1191.	0.44	3.784E-03	7.802E-01	1.317E-01
		422.90	847.	0.26	2.937E-03	1.192E+00	1.862E-01
		529.50	118296.	87.50*	2.506E-03	5.851E-01	1.837E-03
		618.00	630.	0.37	2.252E-03	8.255E-01	1.528E-01
		680.80	884.	0.77	2.108E-03	5.903E-01	8.069E-02
		707.40	1913.	1.58	2.054E-03	6.411E-01	4.209E-02
		769.10	363.	0.47	1.941E-03	4.297E-01	7.692E-02
		856.10	1298.	1.23	1.804E-03	6.370E-01	4.896E-02
		875.30	4366.	4.55	1.777E-03	5.857E-01	1.654E-02
		910.50	411.	0.38	1.731E-03	6.680E-01	1.182E-01
		1052.80	489.	0.50	1.576E-03	6.751E-01	1.034E-01
XE-133	FG	1298.90	1878.	2.19	1.353E-03	6.880E-01	2.378E-02
		79.62	9601.	0.22	4.407E-03	1.036E+01	2.857E-01
		81.00	9601.	37.10*	4.407E-03	6.142E-02	1.694E-03
CS-134	FP	563.26	1214.	8.38	2.403E-03	6.266E-02	6.381E-03
		569.29	2015.	15.43	2.385E-03	5.688E-02	3.826E-03
		604.66	13298.	97.60	2.286E-03	6.191E-02	8.560E-04
		795.76	9918.	85.40*	1.896E-03	6.365E-02	9.172E-04
		801.84	1016.	8.73	1.886E-03	6.413E-02	5.040E-03
		1038.50	2141.	1.00	1.590E-03	1.399E+00	6.451E-02
		1167.86	375.	1.80	1.474E-03	1.468E-01	2.399E-02
I-135	HFP	1365.13	294.	3.04	1.302E-03	7.702E-02	1.075E-02
		220.50	1380.	1.75	4.200E-03	2.232E-01	3.582E-02
		288.45	1942.	3.09	3.608E-03	2.066E-01	2.247E-02
		417.63	2392.	3.52	2.964E-03	2.719E-01	1.778E-02
		526.56	5976.	13.33	2.516E-03	2.112E-01	1.070E-02
		530.80	118296.	0.03	2.506E-03	1.776E+03	5.577E+00
		546.56	3384.	7.12	2.453E-03	2.296E-01	9.578E-03

Nuclide Line Activity Report
Sample ID : 2 RCS Liquid

Page : 5
Acquisition date : 1-SEP-1995 21:10:41

Nuclide	Sbhr	Energy	Area	%Abn	Eff	uCi/unit	1 Sig Err
I-135	HFP	649.85	885.	0.45	2.173E-03	1.062E+00	1.453E-01
		836.80	2104.	6.66	1.832E-03	2.043E-01	9.106E-03
		972.61	630.	1.20	1.659E-03	3.748E-01	4.372E-02
		1038.76	2141.	7.92	1.590E-03	2.015E-01	9.291E-03
		1101.58	461.	1.60	1.531E-03	2.230E-01	2.741E-02
		1124.00	939.	3.60	1.511E-03	2.044E-01	1.415E-02
		1131.51	5745.	22.51	1.505E-03	2.010E-01	3.421E-03
		1169.04	375.	0.87	1.474E-03	3.456E-01	5.647E-02
		1240.00	226.	0.90	1.405E-03	2.115E-01	4.999E-02
		1260.41	6684.	28.60*	1.386E-03	1.998E-01	3.160E-03
		1367.89	430.	0.61	1.301E-03	6.464E-01	8.049E-02
		1457.56	1887.	8.64	1.244E-03	2.081E-01	7.761E-03
		1502.79	148.	1.07	1.217E-03	1.344E-01	3.569E-02
		1566.41	255.	1.29	1.182E-03	1.985E-01	2.793E-02
		1678.03	1916.	9.52	1.126E-03	2.117E-01	6.064E-03
		1706.46	814.	4.09	1.113E-03	2.119E-01	1.173E-02
		1791.20	1522.	7.69	1.076E-03	2.180E-01	6.864E-03
		1830.69	137.	0.58	1.059E-03	2.653E-01	4.187E-02
XE-135	FG	249.79	3713.	90.30*	3.889E-03	1.209E-02	7.035E-04
XE-135M	FG	526.81	5976.	80.00*	2.516E-03	8.763E-01	4.440E-02
CS-136	FP	153.22	853.	7.49	5.036E-03	2.355E-02	6.210E-03
		176.56	3441.	13.60	4.810E-03	5.480E-02	5.179E-03
		273.65	1629.	12.70	3.707E-03	3.606E-02	4.744E-03
		340.57	4216.	46.90*	3.317E-03	2.823E-02	1.673E-03
		818.50	5253.	100.00	1.860E-03	2.942E-02	7.808E-04
		1048.07	3429.	80.00	1.581E-03	2.825E-02	7.391E-04
		1235.34	2003.	19.80	1.410E-03	7.478E-02	2.729E-03
CS-137	FP	661.62	12413.	84.62*	2.148E-03	7.093E-02	8.698E-04
LA-142	FP	641.17	413.	52.50*	2.191E-03	6.568E-03	1.561E-03

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.96	1478	16361	1.34	134.02	130	8	2.84E+00	15.2	3.67E-01	
5	72.71	2557	14302	1.56	145.52	142	24	4.91E+00	8.0	4.02E-01	
5	75.01	4113	16362	1.36	150.12	142	24	7.90E+00	5.7	4.15E-01	T
1	84.23	3079	21389	2.85	168.57	166	10	5.92E+00	8.9	4.58E-01	T
4	281.92	439	2902	1.62	564.00	563	19	8.43E-01	15.3	3.65E-01	
4	535.83	1627	4448	2.00	1071.89	1038	39	3.13E+00	8.3	2.49E-01	
1	1157.53	100	507	1.84	2315.47	2311	10	1.92E-01	44.0	1.48E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of peaks in spectrum 87
Number of peaks identified by NID 82 94.25%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
XE-133	FG	5.29D	1.007	6.142E-02	1.694E-03
XE-135	FG	9.08H	1.101	1.209E-02	7.035E-04
XE-135M	FG	15.60M	28.413	8.763E-01	4.440E-02
I-131	HFP	8.04D	1.005	7.869E-01	2.122E-03
I-132	HFP	2.38H	1.442	1.379E-01	1.276E-03

Summary of Nuclide Activity
Sample ID : 2 RCS Liquid

Page : 6
Acquisition date : 1-SEP-1995 21:10:41

Total number of peaks in spectrum 87
Number of peaks identified by NID 82 94.25%

Nuclide	Sbhr	Halflife	Decay	uCi/unit	1 Sig Err
I-133	HFP	20.30H	1.044	5.851E-01	1.837E-03
I-135	HFP	6.61H	1.141	1.998E-01	3.160E-03
ZR-97	FP	16.80H	1.053	1.856E-03	4.833E-04
MO-99	FP	2.76D	1.013	5.002E-02	3.684E-03
TC-99M	FP	2.76D	1.013	2.827E-03	4.884E-04
CD-113M	FP	14.60Y	1.000	5.450E+01	9.199E+00
TE-132	FP	3.25D	1.011	8.501E-02	1.021E-03
CS-134	FP	2.06Y	1.000	6.365E-02	9.172E-04
CS-136	FP	12.98D	1.003	2.823E-02	1.673E-03
CS-137	FP	30.10Y	1.000	7.093E-02	8.698E-04
LA-142	FP	1.54H	1.760	6.568E-03	1.561E-03
NA-24	AP	15.03H	1.060	3.640E-03	4.532E-04
CO-58	AP	70.78D	1.001	2.498E-02	7.570E-04
FE-59	AP	45.10D	1.001	0.000E+00	0.000E+00
SB-122	AP	2.70D	1.014	7.496E-03	7.633E-04

Interference correction summary

Isotope	uCi/cc	Corrections applied BPS : below peak sensitivity
NA-24	= 2.515E-03	I-135
CO-58	= 2.219E-02	I-132
ZR-97	= 1.856E-03	
MO-99	= 5.002E-02	
TC-99M	= 2.827E-03	
CD-113M	= 0.000E+00	bps: I-133
SB-122	= 0.000E+00	bps: CS-134
I-131	= 0.787	
I-132	= 0.138	
TE-132	= 8.501E-02	
I-133	= 0.585	I-135
XE-133	= 5.693E-03	I-131

Interference correction summary
Sample ID : 2 RCS Liquid

Page : 7
Acquisition date : 1-SEP-1995 21:10:41

Isotope uCi/cc Corrections applied BPS : below peak sensitivity

CS-134 = 6.365E-02

I-135 = 0.200

XE-135 = 1.209E-02

XE-135M = 0.000E+00 bps: I-135

CS-136 = 2.823E-02

CS-137 = 7.093E-02

LA-142 = 6.568E-03

Cs-137eq= 3.145E+00

Interference report Completed

Fission Product Report

Sample ID : 2 RCS Liquid

Sampled : 1-SEP-1995 20:00:00

Acquired: 1-SEP-1995 21:10:41

Nuclide	Activity
I-131	7.869E-01 uCi/ml
I-132	1.379E-01 uCi/ml
I-133	5.850E-01 uCi/ml
I-134	0.000E+00 uCi/ml
I-135	1.998E-01 uCi/ml
Cs-134	6.365E-02 uCi/ml
Cs-136	2.823E-02 uCi/ml
Cs-137	7.093E-02 uCi/ml
I-131DE	9.668E-01 uCi/ml
I-131/I-133 ratio	1.345E+00
Cs-134/Cs-137 ratio	8.973E-01
Cs-136/Cs-137 ratio	3.980E-01

RCS Boron : ppm

23-JAN-96 13:06

Attachment 8

Clean-up Flow
History

September 1, 1995 Event

U2 RCS Letdown Flow

DATE	TIME	FLOW RATE
30-Aug-95	12:50:50.430	42.475
30-Aug-95	12:54:14.430	24.862
30-Aug-95	12:54:15.430	33.713
30-Aug-95	13:00:05.630	40.797
30-Aug-95	13:38:56.430	60.413
30-Aug-95	13:38:57.430	45.573
30-Aug-95	13:39:00.430	34.232
30-Aug-95	14:00:05.630	40.257
30-Aug-95	14:32:23.430	60.52
30-Aug-95	14:32:24.430	43.949
30-Aug-95	14:34:13.430	30.787
30-Aug-95	14:34:14.430	41.381
30-Aug-95	15:00:05.630	40.312
30-Aug-95	16:00:05.900	38.817
30-Aug-95	17:00:05.900	45.91
30-Aug-95	17:26:22.700	28.797
30-Aug-95	17:26:23.700	39.032
30-Aug-95	18:00:05.900	39.035
30-Aug-95	18:21:34.700	51.205
30-Aug-95	18:21:37.700	37.774
30-Aug-95	18:25:34.700	24.78
30-Aug-95	18:25:35.700	28.874
30-Aug-95	18:25:36.700	41.062
30-Aug-95	18:51:00.700	59.394
30-Aug-95	18:51:01.700	44.656
30-Aug-95	18:53:13.700	30.653
30-Aug-95	18:53:15.700	43.155
30-Aug-95	19:00:05.900	39.367
30-Aug-95	19:09:46.700	58.045
30-Aug-95	19:09:48.700	40.744
30-Aug-95	19:11:58.700	28.498
30-Aug-95	19:11:59.700	39.818
30-Aug-95	20:00:05.900	39.086
30-Aug-95	20:56:08.700	50.254
30-Aug-95	20:56:11.700	36.893
30-Aug-95	21:00:05.900	39.974
30-Aug-95	21:53:41.700	52.1
30-Aug-95	21:53:42.700	41.438
30-Aug-95	21:57:49.700	30.715
30-Aug-95	21:57:50.700	41.645
30-Aug-95	22:00:05.900	39.982
30-Aug-95	22:40:42.700	27.391

DATE	TIME	FLOW RATE
30-Aug-95	22:40:43.700	34.299
30-Aug-95	22:48:49.700	52.81
30-Aug-95	22:48:51.700	40.088
30-Aug-95	22:51:18.700	28.102
30-Aug-95	22:51:19.700	39.088
30-Aug-95	23:00:05.900	38.92
31-Aug-95	00:00:06.000	39.818
31-Aug-95	01:00:09.200	39.035
31-Aug-95	02:00:09.200	39.755
31-Aug-95	03:00:09.200	40.743
31-Aug-95	04:00:09.200	39.814
31-Aug-95	05:00:09.200	39.312
31-Aug-95	06:00:09.200	38.924
31-Aug-95	07:00:09.460	40.573
31-Aug-95	08:00:09.760	40.153
31-Aug-95	09:00:12.260	39.145
31-Aug-95	09:22:38.060	42.378
31-Aug-95	09:22:41.060	38.872
31-Aug-95	10:00:12.260	39.206
31-Aug-95	11:00:12.360	39.206
31-Aug-95	12:00:12.360	38.869
31-Aug-95	13:00:12.360	39.318
31-Aug-95	14:00:13.660	39.255
31-Aug-95	15:00:13.660	39.54
31-Aug-95	16:00:13.660	39.141
31-Aug-95	17:00:13.660	39.264
31-Aug-95	18:00:13.660	39.646
31-Aug-95	19:00:13.660	38.982
31-Aug-95	20:00:13.660	38.861
31-Aug-95	21:00:13.660	39.76
31-Aug-95	22:00:13.920	39.597
31-Aug-95	23:00:13.920	38.918
1-Sep-95	00:00:13.920	39.7
1-Sep-95	01:00:15.920	39.975
1-Sep-95	02:00:15.920	39.983
1-Sep-95	03:00:15.920	40.197
1-Sep-95	04:00:15.920	40.039
1-Sep-95	05:00:16.120	39.441
1-Sep-95	06:00:16.120	39.818
1-Sep-95	07:00:16.120	39.15
1-Sep-95	08:00:16.120	40.202
1-Sep-95	08:47:19.920	27.398
1-Sep-95	08:47:20.920	30.437
1-Sep-95	08:47:21.920	41.6

DATE	TIME	FLOW RATE
1-Sep-95	09:00:16.120	39.095
1-Sep-95	09:06:31.920	53.518
1-Sep-95	09:06:33.920	41.915
1-Sep-95	09:08:45.920	30.721
1-Sep-95	09:08:47.920	27.793
1-Sep-95	09:08:48.920	43.152
1-Sep-95	09:21:57.920	62.666
1-Sep-95	09:21:58.920	48.519
1-Sep-95	09:22:01.920	33.327
1-Sep-95	09:24:14.920	25.139
1-Sep-95	09:24:16.920	32.19
1-Sep-95	09:24:17.920	46.203
1-Sep-95	09:24:18.920	35.931
1-Sep-95	09:35:37.920	60.129
1-Sep-95	09:35:39.920	45.048
1-Sep-95	09:35:41.920	33.397
1-Sep-95	09:38:06.920	27.478
1-Sep-95	09:38:09.920	44.999
1-Sep-95	09:46:13.920	63.05
1-Sep-95	09:46:15.920	46.341
1-Sep-95	09:46:17.920	33.259
1-Sep-95	09:48:30.920	21.563
1-Sep-95	09:48:32.920	46.15
1-Sep-95	09:48:34.920	34.681
1-Sep-95	10:00:16.220	39.598
1-Sep-95	10:11:12.020	59.059
1-Sep-95	10:11:15.020	40.474
1-Sep-95	10:11:17.020	29.332
1-Sep-95	10:11:19.020	40.474
1-Sep-95	10:13:28.020	18.369
1-Sep-95	10:13:30.020	44.849
1-Sep-95	10:13:32.020	32.863
1-Sep-95	10:23:25.020	69.706
1-Sep-95	10:23:26.020	58.423
1-Sep-95	10:23:28.020	41.757
1-Sep-95	10:25:53.020	23.977
1-Sep-95	10:25:55.020	38.185
1-Sep-95	10:25:56.020	48.884
1-Sep-95	10:25:57.020	34.048
1-Sep-95	11:00:16.220	39.431
1-Sep-95	11:33:55.020	44.261
1-Sep-95	11:58:06.920	54.406
1-Sep-95	11:58:09.920	41.697
1-Sep-95	12:00:17.120	39.484

DATE	TIME	FLOW RATE
1-Sep-95	12:02:02.920	24.151
1-Sep-95	12:02:04.920	41.435
1-Sep-95	12:44:33.380	55.252
1-Sep-95	12:44:35.380	43.351
1-Sep-95	13:00:17.580	39.198
1-Sep-95	13:40:18.980	28.614
1-Sep-95	13:40:19.980	9.906
1-Sep-95	13:40:21.980	40.88
1-Sep-95	14:00:19.180	39.759
1-Sep-95	14:14:14.820	39.642
1-Sep-95	14:39:44.020	50.14
1-Sep-95	14:41:39.620	61.218
1-Sep-95	14:41:40.620	60.822
1-Sep-95	14:41:41.620	61.003
1-Sep-95	14:41:42.620	60.967
1-Sep-95	14:41:43.720	61.362
1-Sep-95	14:41:44.620	61.003
1-Sep-95	14:41:45.620	60.75
1-Sep-95	14:41:46.620	60.858
1-Sep-95	14:41:47.620	61.218
1-Sep-95	14:41:48.720	61.433
1-Sep-95	14:41:49.620	61.182
1-Sep-95	14:41:50.620	61.075
1-Sep-95	14:41:51.620	61.218
1-Sep-95	14:41:52.620	61.719
1-Sep-95	14:41:53.620	61.182
1-Sep-95	14:41:54.620	61.362
1-Sep-95	14:41:55.620	61.505
1-Sep-95	14:41:56.620	61.612
1-Sep-95	14:41:57.620	61.254
1-Sep-95	14:41:58.620	61.612
1-Sep-95	14:41:59.620	61.433

Attachment 9

Iodine Concentration
Graph

September 1, 1995 Event

Arkansas Nuclear One

23-JAN-96 14:55

