

LICENSEE EVENT REPORT

CONTROL BLOCK: _____ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | M | I | P | A | L | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 31 CAT 58

CON'T
01 | R | L | 6 | 0 | 1 | 5 | 0 | 0 | 1 | 0 | 2 | 5 | 1 | 5 | 7 | 0 | 1 | 1 | 1 | 5 | 3 | 1 | 1 | 8 | 0 | 1 | 2 | 2 | 6 | 8 | 1 | 9
7 8 REPORT SOURCE 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | Following a plant trip from full power, PCS sample revealed dose
03 | equivalent iodine 131 to be 1.148 microcurie per ml, in excess of the
04 | limit of TS 3.1.4 (1.0 microcurie per ml). Sampling frequency was
05 | increased per 3.1.4e. Out of spec condition lasted approximately 8 hours.
06 | Event not repetitive. No threat to public health or safety existed.
07 | Determination of reportability was made on 2-20-81; reportable per
08 | TS 6.9.2.B2

09 | R | C | 11 | F | 12 | X | 13 | F | U | E | L | X | X | 14 | Z | 15 | Z | 16
7 8 SYSTEM CODE 9 10 CAUSE CODE 11 12 CAUSE SUBCODE 13 14 COMPONENT CODE 15 16 COMP SUBCODE 17 18 VALVE SUBCODE 19 20

17 | 8 | 1 | 0 | 0 | 9 | 0 | 3 | L | 0
21 22 EVENT YEAR 23 24 SEQUENTIAL REPORT NO. 25 26 OCCURRENCE CODE 27 28 REPORT TYPE 29 30 REVISION NO. 31 32
18 | X | 19 | Z | 20 | Z | 21 | 0 | 0 | 0 | 0 | Y | 23 | N | 24 | X | 25 | X | 9 | 9 | 9 | 26
33 34 ACTION TAKEN 35 36 FUTURE ACTION 37 38 EFFECT ON PLANT 39 40 SHUTDOWN METHOD 41 42 HOURS 43 44 ATTACHMENT SUBMITTED 45 46 NPRO-4 FORM SUB 47 48 PRIME COMP SUPPLIER 49 50 COMPONENT MANUFACTURER

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | Low level cladding failure combined with transient conditions following
11 | plant trip resulted in high activity. No operating history (eq power
12 | escalation rates) which would contribute abnormally to full clad failure
13 | has been identified. Fuel supplied by CE and Exxon.

15 | C | 28 | 0 | 0 | 0 | 29 | Hot Shutdown | B | 31 | PCS Sample
7 8 FACILITY STATUS 9 10 % POWER 11 12 OTHER STATUS 30 31 METHOD OF DISCOVERY 32 33 DISCOVERY DESCRIPTION 34 35

16 | Z | 33 | Z | 34 | NA | NA | NA
7 8 ACTIVITY CONTENT 9 10 RELEASED OF RELEASE 11 12 AMOUNT OF ACTIVITY 35 36 LOCATION OF RELEASE 37 38

17 | 0 | 0 | 0 | 37 | Z | 38 | NA
7 8 PERSONNEL EXPOSURES 9 10 NUMBER 11 12 TYPE 13 14 DESCRIPTION 39 40

18 | 0 | 0 | 0 | 40 | NA
7 8 PERSONNEL INJURIES 9 10 NUMBER 11 12 DESCRIPTION 41 42

19 | Z | 42 | NA
7 8 LOSS OF OR DAMAGE TO FACILITY 9 10 TYPE 11 12 DESCRIPTION 43 44

20 | N | 44 | NA
7 8 PUBLICITY 9 10 ISSUED 11 12 DESCRIPTION 45 46 NRC USE ONLY 47 48

8103030810

ATTACHMENT TO LICENSEE EVENT REPORT 81-09
 CONSUMERS POWER COMPANY
 PALISADES PLANT
 DOCKET 50-255

This attachment supplies data required by Technical Specification 3.1.4e.

1. Power History

<u>Time</u>	<u>Power</u> <u>(1-31-81)</u>	<u>Power</u> <u>(1-14-81)</u>
0100	97	98.5
0200	97.4	98.5
0300	97.7	98.5
0400	98.4	98.8
0500	98.5	98.7
0600	98.5	98.7
0700	98.4	98.7
0800	98.2	98.4
0900	98	98.4
1000	97.8	98.2
1100	97.6	98.1
1200	97.4	-
1300	97.3	97.7
1400	97.8	97.4
1500	98.1	97.4
1600	98.1	97.3
1700	98	97.2
1800	98.2	97.1
1900	98.4	97.0
2000	98.5	97.8
2100	98.5	97.9
2200	98.5	98.5
2300	98.5	98.4
2400	98.5	98.9

2. Fuel burnup by core region. (See Attached Printout)

	<u>Flow (GPM) *</u> <u>(1-13-81)</u>	<u>Flow (GPM) *</u> <u>(1-14-81)</u>
3. <u>Time</u>		
0100	35	40
0200	35	41
0300	35	40
0400	35	41
0500	35	41
0600	35	40
0700	36	38
0800	35	38
0900	35	38
1000	35	38
1100	35	38
1200	35	38
1300	35	38
1400	35	38
1500	35	60
1600	36	54
1700	36	54
1800	36	52
1900	36	78
2000	35	38

*Clean-up System

<u>Time</u>	<u>Flow (GPM) *</u> <u>(1-13-81)</u>	<u>Flow (GPM) *</u> <u>(1-14-81)</u>
2100	35	38
2200	35	38
2300	38	38
2400	36	38

4. Degassing Operation History: No degassing was performed during 48-hour period prior to the event.
5. Time Duration of Dose Equivalent Iodine Limit Being Exceeded: The limit was exceeded for approximately 8 hours.

*Clean-up System

CORE INFORMATION

TOTAL CORE POWER (MW-THERMAL) = 2430.9
 CORE AVERAGE EXPOSURE (MWD/MTU) = 15359.0
 CYCLE CORE AVERAGE EXPOSURE (MWD/MTU) = 8559.2
 POWER SPLIT
 LOWER-UPPER/FIDIAL = 0.052146

BATCHWISE INFORMATION

POWER FRACTION IN BATCH D = 0.2697
 POWER FRACTION IN BATCH E = 0.0335
 POWER FRACTION IN BATCH G = 0.3589
 POWER FRACTION IN BATCH H = 0.1055
 POWER FRACTION IN BATCH WH = 0.2324
 EXPOSURE IN BATCH D (MWD/MTU) = 20599.6
 EXPOSURE IN BATCH E (MWD/MTU) = 3093.6
 EXPOSURE IN BATCH G (MWD/MTU) = 15754.8
 EXPOSURE IN BATCH H (MWD/MTU) = 9321.0
 EXPOSURE IN BATCH WH (MWD/MTU) = 9255.1

XY NORMALIZED POWER FROM INCA DEFLECTIONS

FULL - CORE COLLAPSED POWER DISTRIBUTION - Y ERROR
 COLLAPSED X16 POWER DISTRIBUTION - Z ERROR

0.095	1.074	0.919	0.907	1.051	1.070	0.932	0.906							
0.077	-0.52X	1.127	4.94X	-2.74X	0.869	-4.29X	1.071	0.92X	1.51X	0.900	-3.49X	0.956	-3.04X	
0.875	-0.97X	1.131	5.33X	0.895	-1.53X	-2.49X	1.095	3.20X	1.107	3.50X	0.900	-3.58X	0.924	-5.28X
0.911	1.022	1.173	1.173	0.532	0.907	0.876	0.915	1.040	0.854	1.17X	1.040	0.754	0.777	0.754
0.905	-0.28X	1.095	2.41X	1.125	2.02X	-4.20X	0.864	-5.54X	1.068	2.75X	0.952	-2.23X	0.952	-2.23X
0.905	-0.64X	1.055	3.05X	1.212	3.53X	-2.62X	0.876	-4.51X	1.058	2.39X	0.918	-3.79X	0.918	-3.79X
1.114	1.121	1.121	1.121	1.273	1.273	0.854	0.854	1.17X	1.17X	1.17X	0.777	0.777	0.777	0.777
1.120	1.27X	1.190	3.57X	1.166	-0.59X	0.873	2.20X	1.191	1.49X	0.730	-5.34X	0.730	-5.34X	0.730
1.134	1.80X	1.179	3.27X	1.279	0.49X	0.877	2.51X	1.185	0.79X	0.705	-9.49X	0.705	-9.49X	0.705
0.901	0.900	0.900	0.900	1.028	1.028	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044	1.044
0.972	-3.25X	0.886	-1.56X	1.041	1.26X	1.49X	1.26X	1.49X	1.26X	1.49X	1.26X	1.49X	1.26X	1.49X
0.974	-2.95X	0.908	-1.53X	1.040	1.25X	1.45X	1.25X	1.45X	1.25X	1.45X	1.25X	1.45X	1.25X	1.45X
1.260	1.092	1.092	1.092	1.260	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092
1.262	0.75X	1.094	0.18X	0.691	-2.88X	1.262	0.75X	1.094	0.18X	0.691	-2.88X	1.262	0.75X	1.094
1.272	0.93X	1.099	-0.26X	0.580	-4.84X	1.272	0.93X	1.099	-0.26X	0.580	-4.84X	1.272	0.93X	1.099

THESE ARE 170% EFFECTIVE FULL POWER DAYS LEFT IN THE LIBRARY. THIS OCCURS AT THE LOWER MIDDLE LEVEL OF OCTANT 19.

ASSEMBLY INFORMATION

OCTANT NUMBERING SYSTEM

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31

CYCLE 4 CORE LOADING

0	6	0	0	6	6	0	H
3	3	6	6	0	0	6	H
5	6	6	WH	WH	E	WH	4
0	0	0	0	0	6	WH	WH
WH	WH	WH	WH	WH	WH	WH	WH

INTEGRATED POWER (MWH)

10.78	13.10	11.21	11.07	12.96	13.05	11.39	12.03
11.12	12.47	14.31	11.37	11.17	12.59	11.54	11.54
13.52	13.76	15.54	10.43	19.32	9.44	12.74	15.33
10.99	10.58	15.38	13.53	9.73	12.54	12.74	9.73

XY NORMALIZED POWER

0.823	1.074	0.319	0.907	1.061	1.071	0.332	0.986
0.911	1.022	1.173	0.932	0.915	1.040	0.954	0.954
1.114	1.127	1.273	0.954	1.173	1.173	1.173	1.173
0.981	0.900	1.023	1.099	1.023	1.099	1.023	1.099
1.260	1.092	0.715	1.092	0.715	1.092	0.715	1.092

EXPOSURE (MWD/MTU)

25592.22	13359.19	23196.09	25407.72	15819.92	15784.01	23870.29	4631.23
25539.04	19718.95	12558.06	26767.06	25312.83	15834.37	4614.16	
14551.43	15132.20	5946.14	30343.54	5493.20	3537.75		
	28747.29	28092.22	17536.23	4872.70			
	5525.66	4366.57	3271.83				

TOTAL ACCUMULATED CONTROL ROD EXPOSURE (MWD)

26.53	21.25	24.32	27.62
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23.97	22.26	21.08
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552.14	17.05
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POINT OF MAXIMUM CONTROL ROD EXPOSURE (FRACTION OF ROD LENGTH FROM ROD POINT)

0.02	0.02	0.02	0.02
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0.22	0.02	0.02
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0.02	0.02
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MAXIMUM CONTROL ROD EXPOSURE (MWD/0.04 ROD LENGTH)

19.61	21.25	22.10	20.91
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23.12	22.26	21.08
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345.17	17.05
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***** 15-JAN-81 05:46:25 *****

NO5620 GELI#2, DASP2 SAMPLE ANALYSIS

SAMPLE DATE: 15-JAN-81 04:35:00

SAMPLE IDENTIFICATION: SX1023

TYPE OF SAMPLE: LIQUID

SAMPLE QUANTITY: 1.000000 UNITS: ML

SAMPLE GEOMETRY: 50 ML BOTTLE

EFFICIENCY FILE NAME: GELI2.EFF50.,

ACQUIRE DATE: 15-JAN-81 05:35:00 * PWAN13327 2.520
PRESET TIME(LIVE): 500. SEC * SENSITIVITY: 5.000
ELAPSED REAL TIME: 603. SEC * SHAPE PARAMETER: 10.0 %
ELAPSED LIVE TIME: 500. SEC * NBR ITERATIONS: 5.

DETECTOR: GELI #2 * LIBRARY:NUC. UPDAT2
CALIB DATE: 06-JAN-81 10:24:54 * ENERGY TOLERANCE: 2.000KV
KEV/CHNL: 0.4971793 * HALF LIFE RATIO: 6.00
OFFSET: 0.6018560 KEV * ABUNDANCE LIMIT: 50.00%
Q. COEFF. : -2.101E-07 KEV/C**2 *

IODINE EQUIVALENCE REPORT (V03)

NUCLIDE	ACTIVITY (UCI /UNIT)	EQUIVALENCE FACTOR	I-131 D. E. (UCI /UNIT)
I-131	7.6403E-01	1.0000	7.6403E-01
I-132	3.4248E-01	0.0361	1.2363E-02
I-133	1.1071E 00	0.2700	3.1240E-01
I-134	3.6330E-02	0.0169	6.1736E-04
I-135	6.9466E-01	0.0696	5.8213E-02

TOTAL I-131 DOSE-EQUIVALENT = 1.1476E 00 UCI /UNIT

NUCLIDE IDENTIFICATION SYSTEM (REV 07/80)
SUMMARY OF NUCLIDE ACTIVITY

PAGE 11

TOTAL LINES IN SPECTRUM 105
LINES NOT LISTED IN LIBRARY 14
IDENTIFIED IN SUMMARY REPORT 118 112.38%

FISSION GAS

NUCLIDE	SBHR	HLIFE	DECAY	UCI /UNIT	1-SIGMA	
					ERROR	%ERR
XE-133	FG	5.29D	1.003	1.308E 0	3.649E -3	0.28
XE-133M	FG	2.26D	1.006	1.958E -2	5.130E -3	31.82
XE-135	FG	9.17H	1.037	2.914E -1	1.418E -3	0.49
XE-135M	FG	15.60M	3.031	1.807E 0	1.921E -2	1.22
KR-85M	FG	4.48H	1.076	3.374E -2	7.399E -4	2.19
KR-87	FG	76.31M	1.295	6.108E -1	2.591E -3	48.94
KR-88	FG	2.80H	1.125	4.625E -2	2.263E -3	4.89

ACTIVATION PRODUCT

NUCLIDE	SBHR	HLIFE	DECAY	UCI /UNIT	1-SIGMA	
					ERROR	%ERR
CR-51	AP	27.72D	1.000	1.158E -1	1.493E -2	12.89
NR-94	AP	312.00D	1.000	3.764E -2	1.263E -3	3.35
MN-56	AP	2.59H	1.135	2.878E -2	1.256E -3	4.38
RU-99	AP	66.63H	1.005	6.497E -3	4.773E -4	7.35
CO-58	AP	71.30D	1.000	5.134E -2	1.175E -3	2.29
SE-75	AP	120.00D	1.000	**KEY LINE NOT PRESENT**		

FISSION PRODUCT

NUCLIDE	SBHR	HLIFE	DECAY	UCI /UNIT	1-SIGMA	
					ERROR	%ERR
TC-99M	FP	6.00H	1.036	7.836E -3	6.805E -4	7.16
RB-88	FP	2.80H	1.125	4.292E -2	4.493E -3	10.47
I-131	FP	8.04D	1.062	7.840E -1	2.471E -3	0.32
I-132	FP	2.28H	1.155	3.425E -1	2.187E -3	0.64
I-133	FP	20.80H	1.016	1.157E 0	3.126E -3	0.27
I-134	FP	53.20M	1.449	3.653E -2	2.909E -3	7.96
I-135	FP	6.70H	1.058	6.947E -1	7.151E -3	1.03
SR-91	FP	9.75H	1.034	2.486E -2	2.849E -3	11.46
SR-92	FP	2.71H	1.129	1.219E -2	1.151E -3	9.44
Y-91M	FP	49.70M	1.487	8.765E -3	2.030E -3	23.16
RA-106	FP	367.00D	1.000	3.863E -2	6.980E -3	7.05
CS-134	FP	2.06Y	1.000	4.656E -3	8.723E -4	18.74
CS-136	FP	13.00D	1.001	7.833E -3	3.075E -4	12.79
CS-137	FP	30.17Y	1.000	1.041E -2	9.138E -4	8.78
CE-144	FP	284.20D	1.000	3.001E -2	5.641E -3	5.94
CD-113M	FP	13.60Y	1.000	6.525E 0	6.801E -1	10.42
SN-113	FP	115.31D	1.000	1.220E -1	1.822E -2	14.87
CE-141	FP	32.50D	1.000	8.184E -3	9.045E -4	11.05

NATURAL PRODUCT

NUCLIDE	SBHR	HLIFE	DECAY	UCI /UNIT	1-SIGMA	
					ERROR	%ERR
RA-226	NP	1602.00Y	1.000	1.857E -2	1.386E -3	7.46
PO-214	NP	25.00M	2.036	**KEY LINE NOT PRESENT**		

PEAK WIDTH = 3.00 FWHM. CONFIDENCE LEVEL = 4.66.

FORM 8513

NUCLIDE	HALF-LIFE	UCI /UNIT	1-SIGMA ERROR	% ERROR	% MPC
AR-41	1.83H	< 4.756E-03			
AR-41			NUCLIDE NOT DETECTED		
XE-131M	11.90D	< 8.849E-02			
XE-133	5.29D	1.308E-00	3.649E-03	0.28	*****
XE-133M	2.26D	1.958E-02	8.186E-03	31.62	*****
XE-135	9.17H	2.914E-01	1.410E-03	0.49	*****
XE-135M	15.60M	1.637E-00	1.951E-02	1.22	*****
XE-138	14.50M	< 1.612E-01			
XE-138			NUCLIDE NOT DETECTED		
KR-80M	4.48H	3.374E-02	7.399E-04	2.19	*****
KR-80	10.76Y	< 8.913E-01			
KR-80			NUCLIDE NOT DETECTED		
KR-81	76.31M	6.336E-03	2.593E-03	40.94	*****
KR-82	2.80H	4.625E-02	2.263E-03	4.89	*****
KR-84	15.05H	< 1.041E-02			
KR-84			NUCLIDE NOT DETECTED		
BS97-03	NUCLIDE NOT DETECTED	DETECTED			
BS97-03			NUCLIDE NOT DETECTED		
CR-51	27.72D	1.158E-01	1.493E-02	12.89	*****
W-187	23.90H	< 1.136E-02			
W-187			NUCLIDE NOT DETECTED		
MN-54	312.50D	3.764E-02	1.261E-03	3.35	*****
MN-56	2.59H	2.870E-02	1.256E-03	4.38	*****
MO-99	5.67H	< 3.328E-03			
MO-99			NUCLIDE NOT DETECTED		
MO-99	66.69H	6.497E-03	4.779E-04	7.36	*****
TU-55M	6.03H	7.688E-03	5.655E-04	7.36	76993.00
FE-59	44.60D	< 5.543E-03			
FE-59			NUCLIDE NOT DETECTED		
CU-67	278.00D	< 1.942E-02			
CU-67			NUCLIDE NOT DETECTED		

PEAK WIDTH = 3.00 FWHM CONFIDENCE LEVEL = 4.66

1-SIGMA

NUCLIDE	HALF-LIFE	DCI UNIT	ERROR	% ERROR	% MPC
CO-58	71.30D	5.134E-02	1.175E-03	2.29	*****
CO-60	5.26Y	< 2.235E-03	NUCLIDE NOT DETECTED		
NI-65	2.52H	< 1.221E-02	NUCLIDE NOT DETECTED		
CU-64	12.71H	< 4.721E-01	NUCLIDE NOT DETECTED		
ZN-65	244.00D	< 5.192E-03	NUCLIDE NOT DETECTED		
HG-110M	253.00D	< 2.893E-03	NUCLIDE NOT DETECTED		
NB-94	1000.00Y	< 2.685E-03	NUCLIDE NOT DETECTED		
ZR-95	69.50D	< 4.287E-03	NUCLIDE NOT DETECTED		
NB-95	35.10D	< 2.714E-03	NUCLIDE NOT DETECTED		
ZR-97	17.00H	< 2.673E-03	NUCLIDE NOT DETECTED		
NB-97	17.00H	< 2.836E-03	NUCLIDE NOT DETECTED		
RB-88	15.60M	< 9.392E-02	4.492E-03	19.47	*****
BR-84	31.80M	< 2.827E-02	NUCLIDE NOT DETECTED		
I-131	8.04D	7.640E-01	2.471E-03	0.32	*****
I-132	2.28H	3.420E-01	2.187E-03	0.64	*****
I-133	20.80H	1.157E-00	3.126E-03	0.27	*****
I-134	53.20M	3.653E-02	2.983E-03	7.96	*****
I-135	6.70H	6.947E-01	7.151E-03	1.03	*****
SR-90	65.20D	< 3.830E-03	NUCLIDE NOT DETECTED		
SR-91	9.75H	2.486E-02	2.849E-03	11.46	*****
SR-92	2.71H	1.219E-02	1.191E-03	9.44	*****
Y-91M	49.70M	8.765E-03	2.030E-03	23.16	43824.04
Y-92	3.52H	< 2.430E-02	NUCLIDE NOT DETECTED		
RH-106	367.00D	8.869E-02	6.965E-03	7.85	*****
RU-102	39.60D	< 3.112E-03	NUCLIDE NOT DETECTED		
CS-134	2.06Y	4.656E-03	8.723E-04	18.74	*****
CS-136	13.00D	7.092E-03	9.875E-04	12.79	*****
CS-137	30.17Y	1.041E-02	9.138E-04	8.78	*****
CS-138	32.20M	< 1.348E-02	NUCLIDE NOT DETECTED		
BR-133	10.50Y	< 4.700E-03	NUCLIDE NOT DETECTED		
BR-135	82.71M	< 1.822E-02	NUCLIDE NOT DETECTED		
BR-140	12.79D	< 1.149E-02	NUCLIDE NOT DETECTED		
LA-140	40.22H	< 2.109E-03	NUCLIDE NOT DETECTED		
CE-144	284.20D	9.501E-02	5.643E-03	5.94	*****
CO-109	453.00D	< 3.818E-02	NUCLIDE NOT DETECTED		
CO-113M	13.60Y	6.525E-00	6.801E-01	10.42	*****
CE-139	137.20D	< 2.201E-03	NUCLIDE NOT DETECTED		
HG-203	46.76D	< 2.860E-03	NUCLIDE NOT DETECTED		
SR-113	115.31D	1.235E-01	1.822E-02	14.87	*****
K-40	99999.00Y	< 3.882E-02	NUCLIDE NOT DETECTED		
SB-122	2.72D	< 4.123E-02	NUCLIDE NOT DETECTED		
SB-124	60.20D	< 3.281E-03	NUCLIDE NOT DETECTED		
SB-125	2.73Y	< 8.154E-03	NUCLIDE NOT DETECTED		
SE-75	120.00D	1.000E-00	1.000E-00	100.00	*****
RU-102	13.20Y	< 1.615E-02	NUCLIDE NOT DETECTED		
RA-226	1602.00Y	1.857E-02	1.386E-03	7.46	*****
PO-214	26.80M	1.000E-00	1.000E-00	100.00	*****
BI-214	3.82D	< 6.138E-03	NUCLIDE NOT DETECTED		
U-235	2000.00Y	< 1.972E-02	NUCLIDE NOT DETECTED		
TE-132	78.00H	< 2.684E-03	NUCLIDE NOT DETECTED		
TH-232	99999.00Y	< 9.618E-03	NUCLIDE NOT DETECTED		
SO-46	83.80D	< 2.479E-03	NUCLIDE NOT DETECTED		
CE-141	32.00D	8.184E-03	9.846E-04	11.85	*****

PEAK WIDTH = 3.00 FWHM. CONFIDENCE LEVEL = 4.66

1-SIGMA

NUCLIDE	HALF-LIFE	UCI /UNIT	ERROR	% ERROR	% MFC
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TOTAL ACTIVITY = 1.555E 01 UCI /UNIT) TOTAL % MFC =*****

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