

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8405140328 DOC. DATE: 84/03/19 NOTARIZED: NO DOCKET #
 FACIL: 50-244 Robert Emmet Ginna Nuclear Plant, Unit 1, Rochester G 05000244
 AUTH. NAME AUTHOR AFFILIATION
 KOBER, R.W. Rochester Gas & Electric Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 NEHEMIAS, J. Radiological Assessment Branch

SUBJECT: Requests permission for disposal of contaminated matl into
 nonregulated waste disposal facility per IE Info Notice
 83-05. Matl generated from roofs of auxiliary & other bldgs.
 Guidance requested.

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NOTES: NRR/DL/SEP 1cy.

05000244

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ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649-0001

ROGER W. KOBER
VICE PRESIDENT
ELECTRIC & STEAM PRODUCTION

TELEPHONE
AREA CODE 716 546-2700

March 19, 1984

Jack Nehemias
USNRC
Radiological Assessment
P712
Washington, DC 20555

Dear Sir:

In compliance with IE Notice No. 83-05, Disposal of Very Low-Level Radiocactive Waste, reference 10CFR20.302, dated February 24, 1983, we request permission for the disposal of some contaminated material into a non-regulated waste disposal facility.

The material is from the roofs of the auxiliary building and other locations. It consists of small stones, tar and plywood pieces. Several analysis have been performed and are included for your review. The average concentration is approximately 1×10^{-5} uCi/cc.

Individually, this material is releasable by our definitions (less than 250 dpm/100 cm² and less than 0.1 mRad/hr at one cm, with an HP-270 probe or equivalent). However, collectively the waste streams have concentrations which, while not high, are identifiable. The total quantity for disposal is 25 tons.

We respectfully request your guidance on handling the situation and will be available for any further questions.

Sincerely,

Roger W. Kober
Vice President
Electric & Steam Production

RWK/lvh

xc: D.L. Filkins
F.J. Mis

Rec'd 5/14/84

A001
1/1

Add: J. Nehemias
NRR/DE/AEAB
NRR/DE/EEB
NRR/EHEB
NRR/DE/SAB

50-244

8405140328 840319
PDR ADOCK 05000244
Q PDR

- R.E. GINNA STATION -

AUX BLDG ROOF UPPER LEVEL EAST HALF
2/17/84 13:47:45

SAMPLE COUNTING DATE 2/17/84 12: 1:37
SAMPLE COLLECTION DATE 2/17/84 11: 0: 0

SAMPLE ANALYZED BY N.KIEDROWSKI
DECAY TIME 0 DAYS 1.027 HRS.
ACQ. LIVE TIME 3600 SEC.
SAMPLE WT. 3.15E+03 GM.
BKDG SUBTRACTED YES
DETECTOR NUMBER 2 (12)
LINE SHAPE FILE NO. 2 #2 ENERGY CALIB - 1/15/84
EFF. FILE NO. 8 MARI BKR LIQD - 1/20/84

PEAK SEARCH-4

NO.	CENTROID (KEV)	T.ENERGY (KEV)	NET CNTS.	BGND.	%ERR.	FWHM (KEV)	EFF.
1	352.6	352.3	178	1398	25.6	1.20	4.407E-03
2	511.8	511.6	125	738	27.2	1.34	3.193E-03
3	563.7	563.5	302	621	11.6	1.38	2.916E-03
4	570.0	569.8	401	885	10.2	1.38	2.884E-03
5	605.3	605.1	3546	702	1.9	1.41	2.715E-03
6	662.2	662.0	10130	456	1.0	1.45	2.470E-03
7	796.4	796.2	2384	280	2.3	1.55	2.064E-03
8	835.3	835.1	130	279	17.9	1.57	1.964E-03
9	1173.5	1173.4	2090	166	2.3	1.80	1.429E-03
10	1332.7	1332.7	1869	40	2.4	1.89	1.279E-03
11	1365.4	1365.4	43	18	20.1	1.91	1.256E-03
12	1461.0	1461.1	230	9	6.9	1.97	1.191E-03

ACT RESULTS-10

11-LIQD ISO W/LLD'S

NUCLIDE	UCI/GM	DECAY CORR.	ABUND(%)	RATE(CPM)	% ERR	DELTA-E
CR-51	****NOT IDENTIFIED****	1.00				
	320.0 < 7.99E-07	9.90				
MN-54	1.36E-07 +/- 2.81E-08	1.00				
	834.8 1.57E-07	100.00	2.2	17.9	-0.2	
CO-58	****NOT IDENTIFIED****	1.00				
	810.5 < 7.32E-08	99.40				
FE-59	****NOT IDENTIFIED****	1.00				
	1099.3 < 1.68E-07	56.00				
CO-60	3.43E-06 +/- 5.79E-08	1.00				
	1332.5 3.49E-06	99.60	31.2	2.4	-0.1	
	1173.1 3.48E-06	100.00	34.8	2.3	-0.2	
ZR-95	****NOT IDENTIFIED****	1.00				

736.5 < 1.16E-07 54.00

NB-95 ****NOT IDENTIFIED**** 1.00
765.8 < 6.99E-08 99.00

RU-103 ****NOT IDENTIFIED**** 1.00
497.1 < 9.19E-08 90.00

AG-110M ****NOT IDENTIFIED**** 1.00
884.5 < 1.52E-07 75.00

SB-125 ****NOT IDENTIFIED**** 1.00
427.9 < 3.76E-07 30.40

I-131 ****NOT IDENTIFIED**** 1.00
364.5 < 1.42E-07 82.00

I-132 ****NOT IDENTIFIED**** 1.00
667.7 < 7.45E-08 98.00

TE-132 ****NOT IDENTIFIED**** 1.00
228.2 < 1.27E-07 88.00

CS-134	3.12E-06 +/- 4.61E-08	1.00			
795.8	3.12E-06 88.00	39.7	2.3	-0.3	
604.5	3.17E-06 98.10	59.1	1.9	-0.5	

CS-137	1.15E-05 +/- 1.18E-07	1.00			
661.3	1.15E-05 84.60	168.8	1.0	-0.6	

BA-140 ****NOT IDENTIFIED**** 1.00
537.4 < 2.80E-07 28.30

LA-140 ****NOT IDENTIFIED**** 1.00
1596.6 < 2.04E-08 95.60

CE-141 ****NOT IDENTIFIED**** 1.00
145.2 < 2.73E-07 49.00

CE-144 ****NOT IDENTIFIED**** 1.00
133.5 < 1.29E-06 10.80

NP-239 ****NOT IDENTIFIED**** 1.00
277.5 < 6.63E-07 14.00

MO-99 ****NOT IDENTIFIED**** 1.00
140.5 < 1.45E-07 95.10

CS-136 ****NOT IDENTIFIED**** 1.00
1048.0 < 1.15E-07 80.50

TOTAL ACTIVITY 1.82E-05 UCI/GM

END ANALYSIS

870 kg

- R.E. GINNA STATION -

AUX ROOF EAST END WEST HALF LOWER LEVEL
2/17/84 15: 8:24

SAMPLE COUNTING DATE 2/17/84 13:40:29
SAMPLE COLLECTION DATE 2/17/84 14:16: 0

SAMPLE ANALYZED BY J. BEMENT
***ERROR** ENTER DECAY TIME(DAYS) ?.0278
DECAY TIME 0 DAYS 0.667 HRS.
ACQ. LIVE TIME 3600 SEC.
SAMPLE WT. 3.26E+03 GM.
BKDG SUBTRACTED YES
DETECTOR NUMBER 1 (22)
LINE SHAPE FILE NO. 1 #1 ENERGY CALIB - 1/18/84
EFF.FILE NO. 8 MARI BKR LIQD - 1/20/84

PEAK SEARCH-4

NO.	CENTROID (KEV)	T.ENERGY (KEV)	NET CNTS.	BGND.	%ERR.	FWHM (KEV)	EFF.
1	563.5	563.1	255	771	14.7	1.49	2.129E-03
2	569.8	569.4	393	994	11.0	1.49	2.104E-03
3	605.1	604.7	3222	798	2.1	1.52	1.966E-03
4	662.0	661.6	9255	560	1.1	1.55	1.771E-03
5	796.2*	795.8	2194	552	2.5	1.63	1.480E-03
6	802.7*	802.3	211	552	14.1	1.63	1.468E-03
7	835.3	834.9	133	240	16.6	1.65	1.407E-03
8	1173.6*	1173.1	1826	217	2.5	1.82	9.859E-04
9	1332.7	1332.2	1475	47	2.7	1.89	8.609E-04
10	1365.8	1365.3	48	9	16.7	1.90	8.451E-04
11	1460.9	1460.3	142	10	8.9	1.94	8.015E-04

ACT RESULTS-10

11-LIQD ISO W/LLD'S

NUCLIDE	UCI/GM	DECAY CORR.	ABUND(%)	RATE(CPM)	% ERR	DELTA-E
CR-51	****NOT IDENTIFIED****	1.00				
320.0	(1.97E-06	9.90				
MN-54	1.94E-07 +/- 3.62E-08	1.00				
834.8	2.18E-07	100.00	2.2	16.6	-0.0	
CO-58	****NOT IDENTIFIED****	1.00				
810.5	(1.01E-07	99.40				
FE-59	****NOT IDENTIFIED****	1.00				
1099.3	(2.39E-07	56.00				
CO-60	4.01E-06 +/- 1.52E-07	1.00				
1332.5	3.95E-06	99.60	24.6	2.7	0.3	
1173.1	4.26E-06	100.00	30.4	2.5	0.0	
ZR-95	****NOT IDENTIFIED****	1.00				

758.9 < 1.82E-07 54.80

NB-95 ****NOT IDENTIFIED**** 1.00
765.8 < 1.05E-07 99.00

RU-103 ****NOT IDENTIFIED**** 1.00
497.1 < 1.55E-07 90.00

AG-110M ****NOT IDENTIFIED**** 1.00
884.5 < 2.18E-07 75.00

SB-125 ****NOT IDENTIFIED**** 1.00
427.9 < 6.11E-07 30.40

I-131 ****NOT IDENTIFIED**** 1.00
364.5 < 2.35E-07 82.00

I-132 ****NOT IDENTIFIED**** 1.00
667.7 < 1.17E-07 98.00

TE-132 ****NOT IDENTIFIED**** 1.00
228.2 < 3.01E-07 88.00

CS-134	3.82E-06 +/- 6.13E-08	1.00			
795.8	3.87E-06 88.00	36.6	2.5	0.0	
604.5	3.84E-06 98.10	53.7	2.1	-0.1	

CS-137	1.41E-05 +/- 1.54E-07	1.00			
661.3	1.41E-05 84.60	154.2	1.1	-0.2	

BA-140 ****NOT IDENTIFIED**** 1.00
537.4 < 4.28E-07 28.30

LA-140 ****NOT IDENTIFIED**** 1.00
1596.6 < 2.85E-08 95.60

CE-141 ****NOT IDENTIFIED**** 1.00
145.2 < 6.41E-07 49.00

CE-144 ****NOT IDENTIFIED**** 1.00
133.5 < 3.02E-06 10.80

NP-239 ****NOT IDENTIFIED**** 1.00
277.5 < 1.56E-06 14.00

MO-99 ****NOT IDENTIFIED**** 1.00
140.5 < 3.35E-07 95.10

CS-136 ****NOT IDENTIFIED**** 1.00
1048.0 < 1.73E-07 80.50

TOTAL ACTIVITY 2.22E-05 UCI/GM

END ANALYSIS

- 7091 kg

< < ROCHESTER GAS & ELECTRIC > >

- R.E. GINNA STATION -

AUX BLDG ROOF EAST END EAST HALF LOWER LEVEL
2/17/84 14:16:22

SAMPLE COUNTING DATE 2/17/84 13:16:12
SAMPLE COLLECTION DATE 2/17/84 11: 0: 0

SAMPLE ANALYZED BY N.KIEDROWSKI
DECAY TIME 0 DAYS 2.270 HRS.
ACQ. LIVE TIME 3600 SEC.
SAMPLE WT. 2.83E+03 GM.
BKDG SUBTRACTED YES
DETECTOR NUMBER 2 (22)
LINESHAPE FILE NO. 2 #2 ENERGY CALIB - 1/15/84
EFF.FILE NO. 8 MARI BKR LIQD - 1/20/84

PEAK SEARCH-4

NO.	CENTROID (KEV)	T.ENERGY (KEV)	NET CNTS.	BGND.	%ERR.	FWHM (KEV)	EFF.
1	476.3	476.0	238	3299	29.1	1.31	3.399E-03
2	512.6	512.4	365	2296	16.4	1.34	3.188E-03
3	563.9	563.7	759	1905	7.8	1.38	2.915E-03
4	570.0	569.8	1224	2477	5.7	1.38	2.884E-03
5	605.4	605.2	9833	2131	1.2	1.41	2.714E-03
6	662.3	662.1	27933	1394	0.6	1.45	2.469E-03
7	796.4	796.2	6572	1083	1.4	1.55	2.064E-03
8	811.4	811.2	131	798	27.4	1.56	2.025E-03
9	835.3	835.1	502	902	8.5	1.57	1.964E-03
10	1173.7	1173.6	8208	584	1.2	1.80	1.429E-03
11	1332.8	1332.8	7303	144	1.2	1.89	1.279E-03
12	1365.5	1365.5	166	27	8.7	1.91	1.256E-03
13	1400.6	1400.6	46	31	21.3	1.93	1.232E-03
14	1461.1	1461.2	262	23	6.7	1.97	1.191E-03

ACT RESULTS-10

11-LIQD ISO W/LLD'S

NUCLIDE	UCI/GM	DECAY CORR.			
ENERGY	ABUND(%)	RATE(CPM)	% ERR	DELTA-E	
CR-51 ****NOT IDENTIFIED***		1.00			
320.0 < 2.29E-06	9.90				
MN-54 6.53E-07 +/- 5.75E-08		1.00			
834.8 6.77E-07	100.00	8.4	8.5	-0.2	
CO-58 1.42E-07 +/- 4.74E-08		1.00			
810.5 1.73E-07	99.40	2.2	27.4	-0.6	
FE-59 ****NOT IDENTIFIED***		1.00			
1099.3 < 3.70E-07	56.00				
CO-60 1.51E-05 +/- 1.26E-07		1.00			
1332.5 1.51E-05	99.60	121.7	1.2	-0.2	
1173.1 1.52E-05	100.00	136.8	1.2	-0.4	

ZR-95 . ****NOT IDENTIFIED****	1.00		
756.9 (2.76E-07 54.00			
NB-95 ****NOT IDENTIFIED****	1.00		
765.8 (1.63E-07 99.80			
RU-103 ****NOT IDENTIFIED****	1.00		
497.1 (2.00E-07 90.00			
AG-110M ****NOT IDENTIFIED****	1.00		
884.5 (3.51E-07 75.00			
SB-125 ****NOT IDENTIFIED****	1.00		
427.9 (7.23E-07 30.40			
I-131 ****NOT IDENTIFIED****	1.00		
364.5 (2.64E-07 82.00			
I-132 ****NOT IDENTIFIED****	1.00		
667.7 (1.74E-07 98.00			
TE-132 ****NOT IDENTIFIED****	1.00		
228.2 (3.54E-07 88.00			
CS-134 9.66E-06 +/- 9.69E-08	1.00		
795.8 9.58E-06 88.00	109.5	1.4	-0.3
604.5 9.78E-06 98.10	163.8	1.2	-0.6
CS-137 3.54E-05 +/- 2.19E-07	1.00		
661.3 3.54E-05 84.60	465.5	0.6	-0.7
BA-140 ****NOT IDENTIFIED****	1.00		
537.4 (6.18E-07 28.30			
LA-140 ****NOT IDENTIFIED****	1.00		
1596.6 (2.27E-08 95.60			
CE-141 ****NOT IDENTIFIED****	1.00		
145.2 (7.22E-07 49.00			
CE-144 ****NOT IDENTIFIED****	1.00		
133.5 (3.38E-06 10.80			
NP-239 ****NOT IDENTIFIED****	1.00		
277.5 (1.81E-06 14.00			
MO-99 ****NOT IDENTIFIED****	1.00		
140.5 (3.77E-07 95.10			
CS-136 ****NOT IDENTIFIED****	1.00		
1048.0 (2.77E-07 80.50			

TOTAL ACTIVITY 6.10E-05 UCI/GM

END ANALYSIS

282 kg

- R.E. GINNA STATION -

AUX BLDG ROOF UPPER LEVEL WEST
2/17/84 13:42:10

SAMPLE COUNTING DATE 2/17/84 12: 1:26
SAMPLE COLLECTION DATE 2/17/84 11: 0: 0

SAMPLE ANALYZED BY N.KIEDROWSKI
DECAY TIME 0 DAYS 1.024 HRS.
ACQ. LIVE TIME 3600 SEC.
SAMPLE WT. 3.60E+03 GM.
BKDG SUBTRACTED YES
DETECTOR NUMBER 1 (12)
LINESHAPE FILE NO. 1 #1 ENERGY CALIB - 1/18/84
EFF.FILE NO. 8 MARI BKR LIQD - 1/20/84

PEAK SEARCH-4

NO.	CENTROID (KEV)	T.ENERGY (KEV)	NET CNTS.	BGND.	%ERR.	FWHM (KEV)	EFF.
1	352.4	352.1	136	412	19.8	1.33	3.382E-03
2	569.8	569.4	86	241	24.5	1.49	2.104E-03
3	605.0*	604.6	712	282	4.7	1.52	1.967E-03
4	662.0	661.6	2135	132	2.3	1.55	1.771E-03
5	796.3*	795.9	472	169	5.6	1.63	1.480E-03
6	1173.6	1173.1	434	68	5.4	1.82	9.859E-04
7	1332.8	1332.3	360	20	5.5	1.89	8.608E-04
8	1365.1	1364.6	18	4	27.9	1.90	8.454E-04
9	1461.2	1460.6	159	7	8.2	1.94	8.014E-04
10	1765.0	1764.4	16	0	25.3	2.04	6.783E-04

ACT RESULTS-10

11-LIQD ISO W/LLD'S

NUCLIDE	UCI/GM	DECAY CORR.	ABUND(%)	RATE(CPM)	% ERR	DELTA-E
CR-51	****NOT IDENTIFIED****	1.00				
	320.0 < 6.13E-07	9.90				
MN-54	****NOT IDENTIFIED****	1.00				
	834.8 < 5.38E-08	100.00				
CO-58	****NOT IDENTIFIED****	1.00				
	810.5 < 3.97E-08	99.40				
FE-59	****NOT IDENTIFIED****	1.00				
	1099.3 < 9.40E-08	56.00				
CO-60	8.12E-07 +/- 3.46E-08	1.00				
	1332.5 8.76E-07	99.60	6.0	5.5	0.2	
	1173.1 9.18E-07	100.00	7.2	5.4	0.0	
ZR-95	****NOT IDENTIFIED****	1.00				
	756.9 < 8.40E-08	54.80				
NB-95	****NOT IDENTIFIED****	1.00				

765.8 < 4.97E-08 99.80

RU-103 ****NOT IDENTIFIED**** 1.00
497.1 < 7.04E-08 90.00

AG-110M ****NOT IDENTIFIED**** 1.00
884.5 < 5.43E-08 75.00

SB-125 ****NOT IDENTIFIED**** 1.00
427.9 < 2.40E-07 30.40

I-131 ****NOT IDENTIFIED**** 1.00
364.5 < 8.09E-08 82.00

I-132 ****NOT IDENTIFIED**** 1.00
667.7 < 4.45E-08 98.00

TE-132 ****NOT IDENTIFIED**** 1.00
228.2 < 7.74E-08 88.00

CS-134 7.37E-07 +/- 2.73E-08 1.00
795.8 7.54E-07 88.00 7.9 5.6 -0.0
604.5 7.68E-07 98.10 11.9 4.7 -0.0

CS-137 2.94E-06 +/- 6.76E-08 1.00
661.3 2.96E-06 84.60 35.6 2.3 -0.2

BA-140 ****NOT IDENTIFIED**** 1.00
537.4 < 1.95E-07 28.30

LA-140 ****NOT IDENTIFIED**** 1.00
1596.6 < 2.58E-08 95.60

CE-141 ****NOT IDENTIFIED**** 1.00
145.2 < 1.18E-07 49.00

CE-144 ****NOT IDENTIFIED**** 1.00
133.5 < 5.33E-07 10.80

NP-239 ****NOT IDENTIFIED**** 1.00
277.5 < 4.25E-07 14.00

MO-99 ****NOT IDENTIFIED**** 1.00
140.5 < 5.92E-08 95.10

CS-136 ****NOT IDENTIFIED**** 1.00
1048.0 < 5.31E-08 80.50

TOTAL ACTIVITY 4.49E-06 UCI/GM

END ANALYSIS

3,401 kg

