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FACIL:50-244 Robert Emmet Ginna Nuclear Plant, Unit 1, Rochester G 05000244  
AUTH.NAME AUTHOR AFFILIATION  
MECREDY,R.C. Rochester Gas & Electric Corp.  
RECIP.NAME RECIPIENT AFFILIATION  
JOHNSON,A.R.

SUBJECT: Submits addl info to suppl application for amend to  
operating license reactor coolant activity TS,dtd 940523,per  
951025 telcon.

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AREA CODE 716 546-2700

ROBERT C. MECREDY

Vice President  
Nuclear Operations

November 1, 1995

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Attn: Allen R. Johnson  
Project Directorate I-1  
Washington, D.C. 20555

Subject: Additional Information for Application for  
Amendment to Operating License  
Reactor Coolant Activity  
Technical Specifications  
R.E. Ginna Nuclear Power Plant  
Docket No. 50-244

Ref.(a): RG&E Letter, R. C. Mecredy to A. R. Johnson (NRC),  
"Application for Amendment to Operating License Reactor  
Coolant Activity Technical Specification," May 23, 1994.

Dear Mr. Johnson:

As a result of an October 25, 1995 telephone conversation between  
RG&E and members of the NRC staff the following additional  
information is supplied to supplement Ref. (a):

1. Attached is tabular data for Ref. (a) Figure III.1 which is  
break flow flashing fraction for Cases 1 and 2.
2. Attached is tabular data for Ref. (a) Figure III.2 which is  
scrubbing efficiency for Cases 1 and 2.
3. The dose calculations done in Ref. (a) used a total primary  
coolant activity value of  $100/E \mu \text{ Ci/gm}$ .
4. The initial steam generator mass prior to break initiation  
used in the Ref. (a) calculations was  $3.39 \times 10^7 \text{ gm}$  per steam  
generator as listed on page 48 of Ref. (a).
5. An evaluation of the control room doses associated with a  
steam generator tube rupture indicates that the doses are  
significantly less than the doses associated with a large  
break loss of coolant accident. Therefore, control room doses  
remain bounded by the LBLOCA doses.

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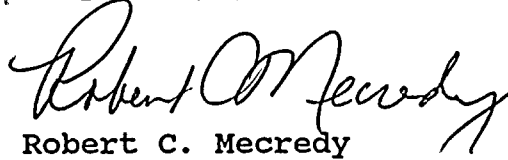
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If there are any questions call George Wrobel at (716) 724-8070 or Brian Flynn at (716) 771-4805.

Very truly yours,

  
Robert C. Mecredy

Attachments  
RWE\397

xc: Mr. Allen R. Johnson (Mail Stop 14B2)  
Project Directorate I-1  
Washington, D.C. 20555

U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

Ginna Senior Resident Inspector

# Case 1 - Break Flow Flashing Fraction vs. Time

IDENT = 0,  
KEEP = 0,  
INTERVL = 1,  
XCONV = 0.,  
YCONV = 0.,  
N3 = 61, 4\*0,  
SEND

TIME	Y(1) TAPE 1	Y(2) TAPE	Y(3)	Y(4)	Y(5)
0.00	0.177				
10.00	0.177				
20.00	0.177				
30.00	0.177				
40.00	0.178				
50.00	0.178				
60.00	0.081				
70.00	0.049				
80.00	0.043				
90.00	0.046				
100.00	0.050				
110.00	0.053				
120.00	0.055				
130.00	0.056				
140.00	0.057				
150.00	0.058				
160.00	0.058				
170.00	0.059				
180.00	0.059				
190.00	0.060				
200.00	0.060				
210.00	0.060				
220.00	0.060				
230.00	0.060				
240.00	0.061				
250.00	0.061				
260.00	0.061				
270.00	0.061				
280.00	0.061				
290.00	0.060				
300.00	0.061				
310.00	0.060				
320.00	0.058				
330.00	0.057				
340.00	0.055				
350.00	0.052				
360.00	0.050				
370.00	0.048				
380.00	0.046				
390.00	0.044				
400.00	0.042				
410.00	0.041				
420.00	0.039				
430.00	0.038				
440.00	0.036				
450.00	0.035				
460.00	0.034				
470.00	0.033				

480.00	0.031
490.00	0.030
500.00	0.029
520.00	0.027
540.00	0.024
550.00	0.022
580.00	0.020
600.00	0.017
620.00	0.015
640.00	0.012
660.00	0.010
680.00	0.009
700.00	0.007
720.00	0.006
740.00	0.005
760.00	0.004
780.00	0.003
800.00	0.002
820.00	0.002
840.00	0.001
860.00	0.000
880.00	0.000
900.00	0.000
920.00	0.000
940.00	0.000
960.00	0.000
980.00	0.000
1000.00	0.001
1020.00	0.001
1040.00	0.002
1060.00	0.003
1080.00	0.003
1100.00	0.004
1120.00	0.005
1140.00	0.006
1160.00	0.006
1180.00	0.007
1200.00	0.008
1220.00	0.008
1240.00	0.009
1260.00	0.009
1280.00	0.010
1300.00	0.011
1320.00	0.011
1340.00	0.012
1360.00	0.012
1380.00	0.012
1400.00	0.013
1420.00	0.013
1440.00	0.013
1460.00	0.014
1480.00	0.014
1500.00	0.014
1520.00	0.015
1540.00	0.015
1560.00	0.015
1580.00	0.015
1600.00	0.015
1620.00	0.015
1640.00	0.015
1660.00	0.015
1680.00	0.015
1700.00	0.015
1720.00	0.015

1740.00	0.014
1760.00	0.014
1780.00	0.014
1800.00	0.014
1820.00	0.014
1840.00	0.014
1860.00	0.013
1880.00	0.012
1900.00	0.010
1920.00	0.008
1940.00	0.004
1960.00	0.001
1980.00	0.000
2000.00	0.000
2020.00	0.000
2040.00	0.000
2060.00	0.000
2080.00	0.000
2100.00	0.000
2120.00	0.000
2140.00	0.000
2160.00	0.000
2180.00	0.000
2200.00	0.000
2220.00	0.000
2240.00	0.000
2260.00	0.000
2280.00	0.000
2300.00	0.000
2320.00	0.000
2340.00	0.000
2360.00	0.000
2380.00	0.000
2400.00	0.000
2420.00	0.000
2440.00	0.000
2460.00	0.000
2480.00	0.000
2500.00	0.000
2520.00	0.000
2540.00	0.000
2560.00	0.000
2580.00	0.000
2600.00	0.000
2620.00	0.000
2640.00	0.000
2660.00	0.000
2680.00	0.000
2700.00	0.000
2720.00	0.000
2740.00	0.000
2760.00	0.000
2780.00	0.000
2800.00	0.000
2820.00	0.000
2840.00	0.000
2860.00	0.000
2880.00	0.000
2900.00	0.000
2920.00	0.000
2940.00	0.000
2960.00	0.000
2980.00	0.000
3000.00	0.000

3000.00

0.000

3020.00	0.000
3040.00	0.000
3060.00	0.000
3080.00	0.000
3100.00	0.000
3120.00	0.000
3140.00	0.000
3160.00	0.000
3180.00	0.000
3200.00	0.000
3220.00	0.000
3240.00	0.000
3260.00	0.000
3280.00	0.000
3300.00	0.000
3320.00	0.000
3340.00	0.000
3360.00	0.000
3380.00	0.000
3400.00	0.000
3420.00	0.000
3440.00	0.000
3460.00	0.000
3480.00	0.000
3500.00	0.000
3520.00	0.000
3540.00	0.000
3560.00	0.000
3580.00	0.000
3600.00	0.000

# Case 2 - Break Flow Flashing Fraction vs. Time

IDENT = 0,  
KEEP = 0,  
INTERVL = 1,  
XCONV = 0.,  
YCONV = 0.,  
N3 = 61, 4\*0,  
SEND

TIME	Y(1) TAPE 1	Y(2) TAPE	Y(3)	Y(4)	Y(5)
1.00	0.177				
10.00	0.177				
20.00	0.177				
30.00	0.177				
40.00	0.178				
50.00	0.170				
60.00	0.069				
70.00	0.049				
80.00	0.050				
90.00	0.053				
100.00	0.055				
110.00	0.056				
120.00	0.057				
130.00	0.058				
140.00	0.058				
150.00	0.059				
160.00	0.059				
170.00	0.059				
180.00	0.060				
190.00	0.060				
200.00	0.060				
210.00	0.060				
220.00	0.061				
230.00	0.061				
240.00	0.061				
250.00	0.061				
260.00	0.061				
270.00	0.061				
280.00	0.061				
290.00	0.061				
300.00	0.061				
310.00	0.060				
320.00	0.059				
330.00	0.057				
340.00	0.055				
350.00	0.053				
360.00	0.051				
370.00	0.048				
380.00	0.046				
390.00	0.044				
400.00	0.042				
410.00	0.041				
420.00	0.039				
430.00	0.038				
440.00	0.036				
450.00	0.035				
460.00	0.034				
470.00	0.032				



480.00	0.031
490.00	0.030
500.00	0.028
520.00	0.026
540.00	0.023
560.00	0.020
580.00	0.018
600.00	0.015
620.00	0.012
640.00	0.010
660.00	0.014
680.00	0.037
700.00	0.041
720.00	0.044
740.00	0.046
760.00	0.048
780.00	0.049
800.00	0.050
820.00	0.050
840.00	0.050
860.00	0.050
880.00	0.050
900.00	0.049
920.00	0.049
940.00	0.048
960.00	0.048
980.00	0.048
1000.00	0.047
1020.00	0.047
1040.00	0.046
1060.00	0.046
1080.00	0.045
1100.00	0.045
1120.00	0.044
1140.00	0.044
1160.00	0.043
1180.00	0.042
1200.00	0.042
1220.00	0.041
1240.00	0.041
1260.00	0.040
1280.00	0.040
1300.00	0.039
1320.00	0.039
1340.00	0.038
1360.00	0.038
1380.00	0.038
1400.00	0.037
1420.00	0.037
1440.00	0.037
1460.00	0.037
1480.00	0.036
1500.00	0.036
1520.00	0.037
1540.00	0.037
1560.00	0.036
1580.00	0.032
1600.00	0.028
1620.00	0.025
1640.00	0.022
1660.00	0.020
1680.00	0.017
1700.00	0.015
1720.00	0.014

1740.00	0.012
1760.00	0.010
1780.00	0.008
1800.00	0.006
1820.00	0.004
1840.00	0.002
1860.00	0.001
1880.00	0.000
1900.00	0.000
1920.00	0.000
1940.00	0.000
1960.00	0.000
1980.00	0.000
2000.00	0.000
2020.00	0.000
2040.00	0.000
2060.00	0.000
2080.00	0.000
2100.00	0.000
2120.00	0.000
2140.00	0.000
2160.00	0.000
2180.00	0.000
2200.00	0.000
2220.00	0.000
2240.00	0.000
2260.00	0.000
2280.00	0.000
2300.00	0.000
2320.00	0.000
2340.00	0.000
2360.00	0.000
2380.00	0.000
2400.00	0.000
2420.00	0.000
2440.00	0.000
2460.00	0.000
2480.00	0.000
2500.00	0.000
2520.00	0.000
2540.00	0.000
2560.00	0.000
2580.00	0.000
2600.00	0.000
2620.00	0.000
2640.00	0.000
2660.00	0.000
2680.00	0.000
2700.00	0.000
2720.00	0.000
2740.00	0.000
2760.00	0.000
2780.00	0.000
2800.00	0.000
2820.00	0.000
2840.00	0.000
2860.00	0.000
2880.00	0.000
2900.00	0.000
2920.00	0.000
2940.00	0.000
2960.00	0.000
2980.00	0.000
3000.00	0.000

3000.00

0.000

2

3020.00	0.000
3040.00	0.000
3060.00	0.000
3080.00	0.000
3100.00	0.000
3120.00	0.000
3140.00	0.000
3160.00	0.000
3180.00	0.000
3200.00	0.000
3220.00	0.000
3240.00	0.000
3260.00	0.000
3280.00	0.000
3300.00	0.000
3320.00	0.000
3340.00	0.000
3360.00	0.000
3380.00	0.000
3400.00	0.000
3420.00	0.000
3440.00	0.000
3460.00	0.000
3480.00	0.000
3500.00	0.000
3520.00	0.000
3540.00	0.000
3560.00	0.000
3580.00	0.000
3600.00	0.000

Case 1 - Scrubbing Efficiency	
0	0.022
50	0.013
200	0.046
340	0.15
450	0.2
520	0.45
620	0.51
760	0.29
840	0.31
1020	0.36
1260	0.45

**Case 1 - Scrubbing Efficiency**

The graph plots Iodine Scrubbing Efficiency (Y-axis, 0 to 0.6) against Time in seconds (X-axis, 0 to 1500). The efficiency starts at 0.022 at 0 seconds, rises to a peak of 0.51 at 620 seconds, drops to 0.29 at 760 seconds, and then rises to 0.45 at 1260 seconds.

Time (seconds)	Iodine Scrubbing Efficiency
0	0.022
50	0.013
200	0.046
340	0.15
450	0.2
520	0.45
620	0.51
760	0.29
840	0.31
1020	0.36
1260	0.45

Case 2 - Scrubbing Efficiency	
0	0
50	0
200	0
340	0.05
450	0.14
520	0.22
680	0.06
820	0.04
1080	0.03
1420	0.05

**Case 2 - Scrubbing Efficiency**

Time (seconds)	Iodine Scrubbing Efficiency
0	0
50	0
200	0
340	0.05
450	0.14
520	0.22
680	0.06
820	0.04
1080	0.03
1420	0.05