

August 14, 1990

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Docket No's. 50289 & 50320  
Washington, D.C. 20555

Dear Sirs:

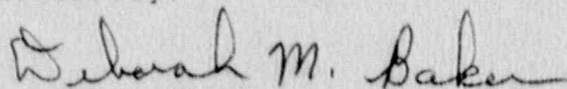
Enclosed is the report for the month of July. Many alarms were reported during this month, most of them occurred during the week-end and involved our Goldsboro and Middletown monitors. These are the monitors closest to the Three Mile Island Nuclear Power Station.

Also I wish to make note that our weekly averages have increased in several areas during this month.

I am concerned based on the data presented. I cannot say what caused our increases I can only record what we are picking up.

If you have any questions, please feel free to contact me at 717-566-7466.

Sincerely,



Deborah M. Baker  
TMI-CMN

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August 14, 1990

JULY

THREE MILE ISLAND CITIZEN'S MONITORING NETWORK

<u>07/01/90 thru 07/07/90</u>	<u>AVERAGE COUNTS PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/ DATE OCCURRED</u>	<u>MIN. CPM TIME / DATE OCCURRED</u>
Station #1	12.96	13.40 cpm 7/1/90 9:46 P.M. Wind: N @ 14	12.00 cpm 7/3/90 11:11 P.M. Wind: S @ 8
Station #2	14.75	15.69 cpm 7/6/90 8:46 A.M.	13.40 cpm 7/2/90 5:50 P.M.
Station #4	11.29	12.53 cpm 7/5/90 7:30 A.M. Wind: N @ 4	9.46 cpm 7/1/90 6:45 A.M. Wind: W @ 8
Station #5	18.03	16.37 cpm* 7/6/90 12:14 A.M. Wind: NW @ 3	14.52 cpm 7/7/90 1:44 A.M. Wind: ?
Station #7	10.47	11.53 cpm 7/1/90 2:56 P.M. Wind: NW @ 12	9.61 cpm 7/4/90 5:40 A.M. Wind: S @ 10
Station #8	14.72	17.42 cpm 7/4/90 9:35 P.M. Wind: W @ 9	11.20 cpm 7/6/90 9:45 P.M. Wind: NE @ 10
Station #9	12.42	14.73 cpm 7/1/90 7:30 P.M. Wind: E @ 5	10.20 cpm 7/3/90 10:20 A.M. Wind: NW @ 2

Station #10	14.70	16.40 cpm 7/7/90 12:55 A.M. Wind: SW @ 5	12.67 cpm 7/3/90 12:29 A.M. Wind: NW @ 12
Station #11	11.70	13.52 cpm 7/5/90 9:30 A.M. Wind: SW @ 7	10.05 cpm 7/1/90 10:06 P.M. Wind: N @ 14

<u>07/08/90 thru 07/14/90</u>	<u>AVERAGE COUNTS PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/ DATE OCCURRED</u>	<u>MIN. CPM TIME/ DATE OCCURRED</u>
Station #1	12.78	15.53 cpm* 7/10/90 3:38 P.M. Wind: W @ 5	11.88 cpm 7/8/90 11:21 P.M. Wind: SE @ 9
Station #2	13.78	13.95 cpm 7/13/90 8:52 A.M. Wind: N @ 7	13.33 cpm 7/12/90 9:04 A.M. Wind: SE @ 7
Station #4	11.20	13.20 cpm* 7/13/90 9:15 A.M. Wind: N @ 5	9.13 cpm 7/8/90 8:30 P.M. Wind: SE @ 8
Station #5	13.87	18.33 cpm 7/8/90 6:16 A.M. Wind: SE @ 5	9.88 cpm 7/10/90 8:03 A.M. Wind: NW @ 6
Station #7	10.46	14.55 cpm 7/12/90 9:53 P.M. Wind: NE @ 10	9:38 cpm 7/13/90 9:53 A.M. Wind: N @ 7
Station #8	15.08	18.26 cpm 7/9/90 7:15 A.M. Wind: Calm	12.00 cpm 7/13/90 10:00 P.M. Wind: SE @ 5

Station #9	12.57	13.86 cpm* 7/11/90 11:00 A.M. Wind: E @ 2	11.73 cpm 7/8/90 10:00 A.M. Wind: E @ 2
Station #10	14.76	17.20 cpm 7/11/90 4:23 P.M. Wind: E @ 5	13.27 cpm 7/9/90 1:34 P.M. Wind: ?
Station #11	13.06	14.11 cpm* 7/12/90 7:46 P.M. Wind: NE @ 10	11.20 cpm 7/11/90 5:21 P.M. Wind: E @ 5

<u>07/15/90 thru 07/21/90</u>	<u>AVERAGE COUNTS PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/ DATE OCCURRED</u>	<u>MIN. CPM TIME/ DATE OCCURRED</u>
Station #1	13.00	14.23 cpm 7/17/90 11:17 P.M. Wind: S @ 8	11.87 cpm 7/15/90 1:07 P.M. Wind: S @ 9
Station #2	14.27	14.87 cpm 7/15/90 8:00 P.M. Wind: SE @ 5	13.06 cpm 7/16/90 9:13 A.M. Wind: W @ 7
Station #4	11.28	14.00 cpm* 7/20/90 7:00 P.M. Wind: NW @ 16	7.40 cpm 7/16/90 8:20 P.M. Wind: S @ 8
Station #5	15.26	17.00 cpm 7/19/90 11:30 P.M. Wind: S @ 5	14.11 cpm 7/17/90 4:45 P.M. Wind: W @ 8

Station #7	10.31	11.85 cpm 7/15/90 2:41 P.M. Wind: S @ 9	9.31 cpm 7/17/90 1:17 A.M. Wind: ?
Station #8	14.48	16.60 cpm 7/16/90 7:25 A.M. Wind: W @ 5	11.33 cpm 7/15/90 10:50 P.M. Wind: NW @ 6
Station #9	12.68	15.33 cpm 7/18/90 10:55 A.M. Wind: W @ 1	11.93 cpm 7/16/90 10:10 A.M. Wind: N @ 4
Station #10	14.29	16.33 cpm 7/15/90 11:07 P.M. Wind: NW @ 6	12.66 cpm 7/16/90 11:04 A.M. Wind: W @ 13
Station #11	11.78	13.66 cpm 7/17/90 9:14 A.M. Wind: Calm	10.64 cpm 7/19/90 9:41 A.M. Wind: SW @ 4
<u>07/22/90 thru 07/28/90</u>			
	<u>AVERAGE COUNTS PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/ DATE OCCURRED</u>	<u>MIN. CPM TIME/ DATE OCCURRED</u>
Station #1	12.83	13.59 cpm 7/25/90 11:24 P.M. Wind: E @ 5	12.53 cpm 7/28/90 11:22 P.M. Wind: SE @ 8
Station #2	13.91	15.48 cpm 7/27/90 5:12 P.M. Wind: NE @ 5	12.96 cpm 7/26/90 5:46 P.M. Wind: NE @ 5
Station #4	10.80	13.13 cpm 7/27/90 10:30 A.M. Wind: SE @ 5	9.46 cpm 7/28/90 7:30 P.M. Wind: SE @ 7

Station #5	14.87	16.53 cpm 7/24/90 11:03 P.M. Wind: NW @ 3	13.68 cpm 7/27/90 9:36 P.M. Wind: SE @ 5
Station #7	10.50	11.35 cpm 7/22/90 7:26 A.M. Wind: N @ 7	9.68 cpm 7/26/90 1:23 A.M. Wind: ?
Station #8	15.31	17.54 cpm 7/28/90 6:47 A.M. Wind: NE @ 5	13.04 cpm 7/22/90 12:00 P.M. Wind: ?
Station #9	12.35	13.60 cpm 7/24/90 11:30 A.M. Wind: N @ 4	10.66 cpm 7/28/90 10:30 P.M. Wind: E @ 3
Station #10	14.55	16.40 cpm 7/23/90 11:45 P.M. Wind: W @ 8	13.18 cpm 7/22/90 4:57 P.M. Wind: SE @ 7
Station #11	11.70	12.77 cpm 7/23/90 11:39 A.M. Wind: SW @ 12	10.25 cpm 7/23/90 11:32 P.M. Wind: W @ 8
<u>AVERAGE COUNTS</u>			
<u>07/29/90 thru 08/04/90</u>	<u>PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/</u>	<u>MIN. CPM TIME/</u>
		<u>DATE OCCURRED</u>	<u>DATE OCCURRED</u>
Station #1	12.72	14.12 cpm 8/3/90 11:16 P.M. Wind: W @ 5	12.27 cpm 7/31/90 11:19 P.M. Wind: NW @ 12
Station #2	14.35	15.46 cpm 7/30/90 7:58 A.M. Wind: S @ 6	13.20 cpm 8/3/90 5:38 P.M. Wind: Calm

Station #4	11.48	12.86 cpm 7/29/90 8:15 A.M. Wind: NE @ 5	9.93 cpm 7/30/90 8:30 A.M. Wind: S @ 4
Station #5	14.96	16.5 cpm 8/4/90 3:30 P.M. Wind: S @ 11	14.52 cpm 8/1/90 1:12 P.M. Wind: NW @ 10
Station #8	15.86	17.06 cpm 8/1/90 2:20 P.M. Wind: ?	14.30 cpm 8/3/90 10:20 P.M. Wind: SW @ 5
Station #9	11.89	14.13 cpm 7/29/90 10:00 A.M. Wind: W @ 5	10.33 cpm 8/2/90 8:55 P.M. Wind: Calm
Station #10	14.77	16.40 cpm 7/30/90 5:47 P.M. Wind: S @ 9	13.20 cpm 8/1/90 5:12 P.M. Wind: NW @ 9
Station #11	12.14	13.73 cpm 8/4/90 8:36 A.M. Wind: Calm	10.33 cpm 8/1/90 11:38 P.M. Wind: N @ 7

Station #1 is located 7 miles N.N.E. of TMI  
 Station #2 is located 3 miles N. of TMI  
 Station #4 is located 5 miles N.N.W. of TMI  
 Station #5 is located 3 miles W.S.W. of TMI  
 Station #7 is located 1 mile W. of TMI

Station #8 is located 7 miles N.W. of TMI  
 Station #9 is located 13 miles W.N.W. of TMI  
 Station #10 is located 11 miles N.W. of TMI  
 Station #11 is located 9 miles N.W. of TMI

Normal background is 10 cpm per U.S. statistics. Our monitors are set to alarm automatically at 30 cpm in most areas. This represents 3X's background.

\*Occurred during rain

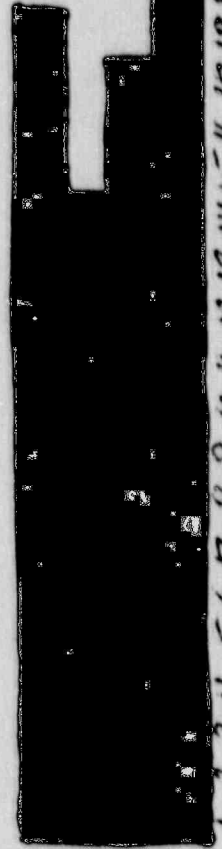
# 4 Minute Reading

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

M: n c t e s

stop → 4  
3  
2

Start → 1  
C.P.M.



**ALARM: 32 cps**  
Station # 2  
(Middletown)  
7-1-90 @ 7:41 P.M.  
Winds: ?

Also on 7-3-90 @  
12:29 P.M. monitor  
alarmed at 33 and  
went back down to 12.  
At 9:32 P.M. monitor  
alarmed at 33 and  
went back down to 12,  
this same date (7-3-90)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



5 Minute Reading

30  
29  
28  
27  
26  
25  
24  
23  
22  
21  
20  
19  
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17  
16  
15  
14  
13  
12  
11  
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9  
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7  
6

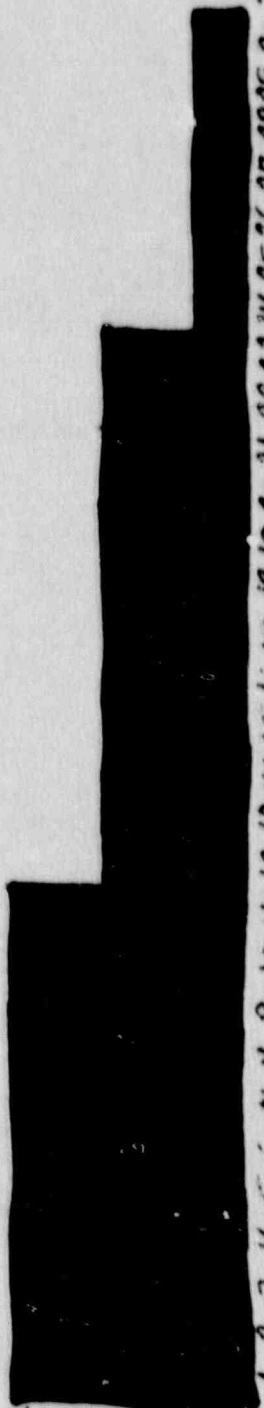
Minutes

End → 5  
4  
3  
2

Start → 1  
C. P. M.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

ALARM: 30cpm  
Station #7  
(Goldsboro)  
7-15-90 @ 12:48 P.M.  
Winds: NW @ 5



5 Minute Reading

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

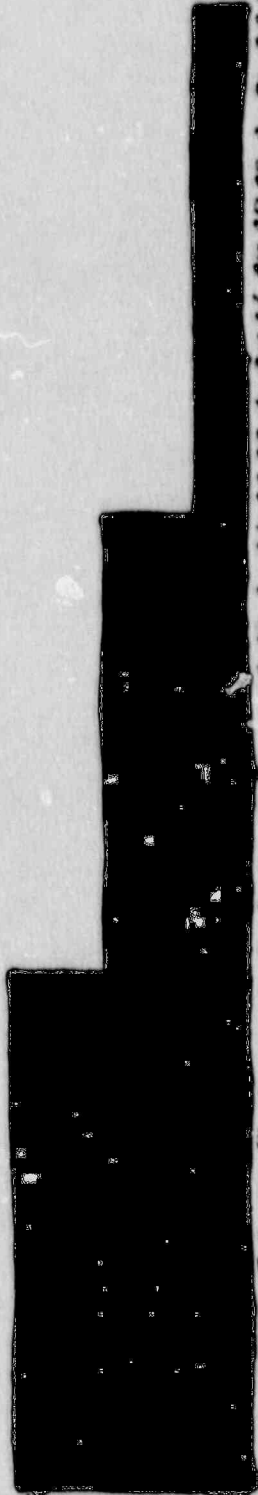
Minutes

End → 5  
4  
3  
2

Start → 1  
C.P.M.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

ALARM: 32 cpm  
station #7  
(Goldsboro)  
7-19-90 @ 2:23 P.M.  
winds: ?



5 Minute Reading

ALARM: 34cpm  
Station # 2  
(Middletown)  
7-21-90 @ 11:29 P.M.  
Winds: W @ 9

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

Minutes

Stop →

Start →

Total Counts: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



6 Minute Reading

30  
29  
28  
27  
26  
25  
24  
23  
22  
21  
20  
19  
18  
17  
16  
15  
14  
13  
12  
11  
10  
9  
8  
7

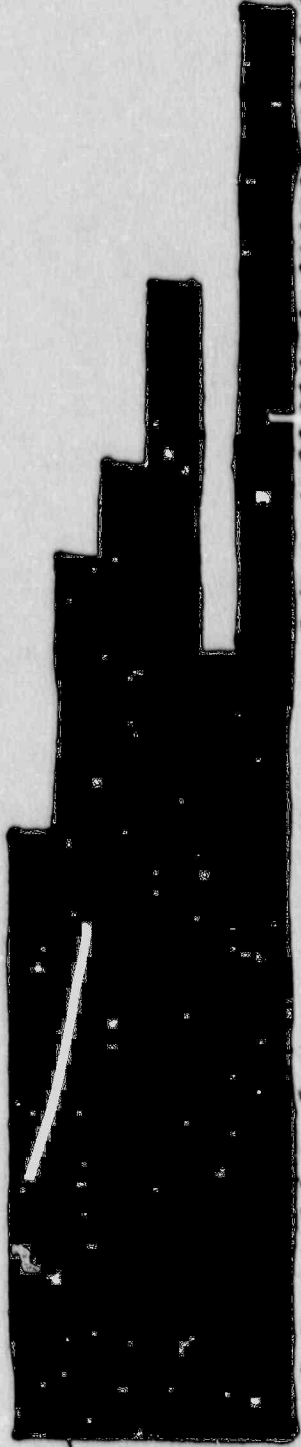
Minutes

End → 6

Start → 1

C. P. M.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37



ALARM: 31 cpm.

Station # 2  
(Middle town)

7-28-90 @ 11:11 AM.  
Winds: NE @ 5

Also on this date  
at 4:50 A.M., alarm  
went, but operator  
did not get to the  
monitor in time  
to get the reading.

All monitors are  
set to alarm at  
30 cpm's.

5 Minute Reading

ALARM: 31 cpm

Recorded on an  
elevation in Enola.

7-28-90 @ 3:58 P.M.

Winds: E @ 6

Minutes

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

End → 5

4  
3  
2

Start → 1

C.P.M. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37