



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406

NOV 23 1990

James McKnight
Document Control Desk
U.S. Nuclear Regulatory Commission
1717 H Street, N.W.
Washington, D.C. 20555

Dear Mr. McKnight:

The attached information from the Three Mile Island Citizens Radiological Monitoring Network, covering the report dates of July 11, and September 13, 1990, is to be processed through the NUDOCS system for Three Mile Island with its docket number 50-289, Unit 1 and 50-320, Unit 2.

If you have any questions concerning these reports, please contact me at FTS 346-5213 or Ms. L. Peluso of my staff at FTS 346-5323.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert Bores".

Robert Bores, Chief
Effluents Radiation Protection Section
Facilities Radiological Safety and
Safeguards Branch
Division of Radiation Safety and
Safeguards

Enclosures: TMI Report Dates - July 11, 1990 and September 13, 1990

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PDR ADOCK 05000289
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JUNE

July 11, 1990

THREE MILE ISLAND CITIZEN'S MONITORING NETWORK

<u>05/27/90 thru 06/02/90</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	12.59	15.55 cpm 5/27/90 4:08 P.M. Wind: S @ 10	10.40 cpm 5/30/90 11:42 P.M. Wind: N @ 12
Station #2	13.91	15.00 cpm 6/1/90 8:36 A.M. Wind: Calm	13.10 cpm 5/31/90 5:11 P.M. Wind: Calm
Station #4	10.79	13.00 cpm* 5/29/90 9:30 A.M. Wind: N @ 8	8.33 cpm 6/1/90 7:00 A.M. Wind: Calm
Station #5	15.76	17.28 cpm 6/1/90 7:51 A.M. Wind: Calm	14.80 cpm* 6/2/90 10:22 P.M. Wind: SW @ 13
Station #8	12.62	15.27 cpm 5/31/90 6:43 A.M. Wind: W @ 5	10.20 cpm 5/31/90 5:50 A.M. Wind: W @ 5
Station #9	12.18	13.33 cpm 6/2/90 2:13 P.M. Wind: SE @ 4	11.26 cpm 6/2/90 11:25 A.M. Wind: SW @ 2
Station #10	14.66	16.06 cpm 5/28/90 4:42 P.M. Wind: SE @ 3	13.47 cpm 6/2/90 11:57 P.M. Wind: SW @ 14

<u>06/03/90 thru 06/09/90</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	12.91	14.05 cpm 6/5/90 9:20 P.M. Wind: S @ 7	11.86 cpm 6/4/90 11:35 A.M. Wind: NW @ 14
Station #2	13.77	15.06 cpm 6/6/90 6:02 P.M. Wind: S @ 12	12.57 cpm* 6/8/90 4:37 P.M. Wind: SW @ 15
Station #4	11.25	13.66 cpm 6/4/90 9:30 A.M. Wind: W @ 10	9.60 cpm* 6/8/90 5:00 P.M. Wind: SE @ 5
Station #5	15.94	17.27 cpm 6/6/90 10:58 P.M. Wind: S @ 7	15.20 cpm 6/5/90 10:41 P.M. Wind: SW @ 6
Station #7	10.34	11.55 cpm 6/8/90 1:51 P.M. Wind: SE @ 5	8.96 cpm 6/4/90 10:32 P.M. Wind: NW @ 14
Station #8	13.23	16.20 cpm 6/7/90 9:35 P.M. Wind: SW @ 6	10.20 cpm 6/6/90 10:13 P.M. Wind: S @ 7
Station #9	11.51	13.07 cpm 6/5/90 4:40 P.M. Wind: W @ 6	9.60 cpm 6/5/90 11:15 A.M. Wind: W @ 2
Station #10	14.93	16.73 cpm 6/7/90 11:33 P.M. Wind: W @ 6	12.73 cpm 6/9/90 11:27 P.M. Wind: W @ 5

Station #	AVERAGE COUNTS PER MINUTE, PER WEEK	MAX. CPM TIME/ DATE OCCURRED	MIN. CPM TIME/ DATE OCCURRED
Station #11	11.38	13.46 cpm 6/8/90 7:50 A.M. Wind: Calm	11.08 cpm 6/7/90 7:50 A.M. Wind: W @ 5
<u>06/10/90 thru 06/16/90</u>			
Station #2	14.10	15.46 cpm 6/16/90 8:17 A.M. Wind: Calm	12.75 cpm 6/12/90 4:55 P.M. Wind: NW @ 12
Station #4	11.53	13.20 cpm 6/10/90 8:30 A.M. Wind: W @ 6	9.93 cpm 6/14/90 9:00 A.M. Wind: Calm
Station #5	15.55	17.13 cpm 6/11/90 9:32 P.M. Wind: N @ 12	14.95 cpm 6/11/90 7:27 A.M. Wind: N @ 10
Station #7	10.02	10.76 cpm 6/10/90 7:00 A.M. Wind: W @ 6	9.08 cpm 6/15/90 9:34 A.M. Wind: SE @ 5
Station #8	13.00	16.80 cpm 6/11/90 6:30 A.M. Wind: N @ 10	8.04 cpm 6/14/90 10:17 P.M. Wind: SE @ 10
Station #9	12.29	13.93 cpm 6/10/90 10:10 A.M. Wind: E @ 4	11.13 cpm 6/10/90 2:50 P.M. Wind: E @ 4

Station #10	14.80	16.06 cpm 6/16/90 11:14 P.M. Wind: Calm	12.93 cpm 6/14/90 1:46 P.M. Wind: S @ 6
Station #11	11.18	11.87 cpm 6/14/90 9:57 A.M. Wind: Calm	11.06 cpm 6/15/90 8:21 A.M. Wind: Calm
<u>06/17/90 thru 06/23/90</u>	<u>AVERAGE COUNTS PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/ DATE OCCURRED</u>	<u>MIN. CPM TIME/ DATE OCCURRED</u>
Station #2	13.19	15.60 cpm 6/18/90 8:27 A.M. Wind: S @ 5	11.93 cpm 6/21/90 7:00 P.M. Wind: W @ 8
Station #4	11.67	13.46 cpm 6/23/90 8:15 A.M. Wind: SW @ 10	10.66 cpm 6/20/90 6:00 P.M. Wind: SW @ 3
Station #5	15.71	18.13 cpm 6/18/90 5:59 P.M. Wind: NE @ 18	14.41 cpm 6/17/90 10:13 P.M. Wind: SE @ 6
Station #7	10.63	11.50 cpm 6/23/90 8:43 A.M. Wind: SW @ 10	9.83 cpm 6/23/90 7:27 P.M. Wind: SW @ 12
Station #8	13.39	16.61 cpm 6/22/90 7:00 A.M. Wind: SW @ 8	11.13 cpm 6/19/90 10:06 P.M. Wind: NW @ 10

Station #9	13.35 cpm	15.07 cpm 6/18/90 3:10 P.M. Wind: S @ 1	12.33 cpm 6/19/90 11:30 A.M. Wind: NE @ 2
Station #10	14.66	15.66 cpm 6/18/90 12:23 P.M. Wind: S @ 10	13.20 cpm 6/17/90 5:08 P.M. Wind: Calm
Station #11	12.00	14.40 cpm 6/18/90 9:49 A.M. Wind: SE @ 5	11.38 cpm 6/20/90 9:22 A.M. Wind: NW @ 6
<u>06/24/90 thru 06/30/90</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	12.95	13.88 cpm 6/28/90 9:44 P.M. Wind: SW @ 5	12.86 cpm 6/29/90 11:28 A.M. Wind: SW @ 10
Station #2	12.85	13.83 cpm 6/29/90 11:00 A.M. Wind: W @ 3	12.27 cpm 6/24/90 7:00 A.M. Wind: SW @ 10
Station #4	11.79	13.66 cpm 6/27/90 11:00 A.M. Wind: S @ 5	10.20 cpm 6/26/90 7:00 P.M. Wind: SW @ 10
Station #5	15.37	17.11 cpm* 6/28/90 7:23 P.M. Wind: SW @ 14	14.65 cpm 6/30/90 7:17 A.M. Wind: W @ 12

Station #7	10.53	12.18 cpm 6/29/90 9:49 P.M. Wind: W @ 17	9.40 cpm 6/27/90 5:13 P.M. Wind: SW @ 16
Station #8	15.25	19.53 cpm 6/28/90 5:50 A.M. Wind: SW @ 5	10.65 cpm 6/26/90 8:51 P.M. Wind: SW @ 10
Station #9	12.71	13.86 cpm 6/25/90 11:00 A.M. Wind: N @ 2	10.86 cpm 6/27/90 11:20 A.M. Wind: W @ 3
Station #10	14.87	17.27 cpm 6/30/90 11:40 P.M. Wind: W @ 14	12.93 cpm 6/27/90 12:21 A.M. Wind: W @ 8
Station #11	12.61	14.46 cpm 6/26/90 11:39 P.M. Wind: SE @ 6	11.18 cpm 6/26/90 9:23 A.M. Wind: W @ 5

Station #1 is located 7 miles N.N.E. of TMI	Station #8 is located 7 miles N.W. of TMI
Station #2 is located 3 miles N. of TMI	Station #9 is located 13 miles W.N.W. of TMI
Station #4 is located 5 miles N.N.W. of TMI	Station #10 is located 11 miles N.W. of TMI
Station #5 is located 3 miles W.S.W. of TMI	Station #11 is located 9 miles N.W. of TMI
Station #7 is located 1 mile 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

AUGUSTTHREE MILE ISLAND CITIZEN'S MONITORING NETWORK

<u>08/05/90 thru 08/11/90</u>	<u>AVERAGE COUNT PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/ DATE OCCURRED</u>	<u>MIN. CPM TIME/ DATE OCCURRED</u>
Station #1	12.84	14.40 cpm 8/10/90 11:02 P.M. Wind: NE @ 5	11.93 cpm 8/8/90 10:48 P.M. Wind: N @ 6
Station #2	14.44	15.70 cpm 8/9/90 9:09 A.M. Wind: NE @ 6	13.18 cpm 8/11/90 7:55 P.M. Wind: SW @ 5
Station #4	11.75	13.53 cpm 8/10/90 5:15 P.M. Wind: NE @ 6	9.66 cpm 8/7/90 9:45 A.M. Wind: NW @ 10
Station #5	15.23	17.44 cpm* 8/6/90 3:59 P.M. Wind: NW @ 4	14.55 cpm* 8/5/90 7:42 A.M. Wind: E @ 4
Station #8	15.53	19.73 cpm 8/10/90 10:41 P.M. Wind: NE @ 5	12.80 cpm 8/11/90 11:40 A.M. Wind: NW @ 5
Station #9	12.07	13.06 cpm* 8/8/90 8:20 A.M. Wind: NE @ 2	11.00 cpm 8/9/90 8:15 A.M. Wind: NW @ 2
Station #10	14.96	16.05 cpm* 8/6/90 3:59 P.M. Wind: NW @ 9	14.00 cpm 8/8/90 4:45 P.M. Wind: NW @ 6

Station #11	12.41	13.33 cpm 8/6/90 10:28 A.M. Wind: W @ 7	11.63 cpm 8/8/90 9:32 A.M. Wind: W @ 5
Station #12	11.64	12.13 cpm 8/7/90 5:45 P.M. Wind: NE @ 6	10.33 cpm 8/11/90 8:15 A.M. Wind: Calm
<u>08/12/90 thru 08/18/90</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	14.33 cpm 8/12/90 11:16 P.M. Wind: S @ 7	12.08 cpm 8/14/90 11:05 P.M. Wind: NW @ 3
Station #2	14.35	15.05 cpm 8/17/90 8:50 A.M. Wind: Calm	13.40 cpm 8/14/90 8:46 A.M. Wind: Calm
Station #4	11.26	12.80 cpm 8/15/90 9:30 A.M. Wind: Calm	9.60 cpm 8/12/90 8:00 P.M. Wind: S @ 5
Station #5	15.30	16.33 cpm 8/15/90 7:35 A.M. Wind: NE @ 6	14.57 cpm 8/16/90 10:44 P.M. Wind: Calm
Station #8	15.61	17.33 cpm 8/14/90 9:30 P.M. Wind: S @ 3	12.26 cpm 8/18/90 10:14 P.M. Wind: W @ 8
Station #9	11.73	12.93 cpm 8/15/90 9:30 A.M. Wind: E @ 2	9.40 cpm 8/16/90 10:45 A.M. Wind: E @ 2

Station #10	14.68	15.73 cpm 8/13/90 5:23 P.M. Storm Alert	12.00 cpm 8/14/90 9:44 P.M. Wind: S @ 3
Station #11	12.25	13.54 cpm 8/13/90 7:21 P.M. Storm Alert	9.86 cpm 8/18/90 8:08 A.M. Wind: Calm
Station #12	11.91	14.57 cpm 8/13/90 5:10 P.M. Storm Alert	10.70 cpm 8/15/90 5:13 P.M. Wind: S @ 14
<u>08/19/90 thru 08/25/90</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	12.98	14.09 cpm* 8/22/90 11:29 P.M. Wind: E @ 3	13.04 cpm* 8/23/90 11:02 P.M. wind: E @ 7
Station #2	14.69	16.14 cpm 8/21/90 9:27 A.M. Wind: SE @ 5	13.44 cpm* 8/22/90 7:35 P.M. Wind: E @ 3
Station #4	12.49	14.53 cpm 8/24/90 11:50 A.M. Wind: NE @ 5	10.40 cpm 8/19/90 9:25 A.M. Wind: NE @ 3
Station #5	15.22	16.97 cpm* 8/20/90 9:36 A.M. Wind: NE @ 10	13.00 cpm 8/24/90 10:11 P.M. Wind: Calm
Station #8	14.48	18.60 cpm* 8/20/90 7:40 A.M. Wind: NE @ 10	11.00 cpm 8/23/90 9:50 P.M. Wind: Calm

Station #9	12.44	13.73 cpm 8/25/90 10:45 A.M. Wind: Calm	11.26 cpm 8/24/90 5:30 P.M. Wind: Calm
Station #10	15.21	16.53 cpm 8/16/90 9:35 A.M. Wind: S @ 9	13.20 cpm* 8/20/90 8:45 P.M. Wind: NE @ 5
Station #11	12.63	17.31 cpm* 8/20/90 8:30 A.M. Wind: NE @ 10	10.93 cpm 8/25/90 8:18 A.M. Wind: Calm
Station #12	11.90	13.67 cpm* 8/20/90 4:29 A.M. Wind: E @ 9	10.27 cpm 8/24/90 6:15 P.M. Wind: SW @ 6
<u>AVERAGE COUNTS</u>			
<u>08/26/90 thru 9/1/90</u>	<u>PER MINUTE, PER WEEK</u>	<u>MAX. CPM TIME/ DATE OCCURRED</u>	<u>MIN. CPM TIME/ DATE OCCURRED</u>
Station #1	12.86	15.27 cpm 8/28/90 10:59 P.M. Wind: SW @ 7	10.66 cpm 9/1/90 10:55 P.M. Wind: SW @ 9
Station #2	14.28	16.15 cpm 8/27/90 8:47 A.M. Wind: Calm	12.60 cpm 8/29/90 8:37 A.M. Wind: W @ 10
Station #4	12.16	13.53 cpm 8/26/90 10:15 A.M. Wind: Calm	10.33 cpm 8/28/90 10:40 P.M. Wind: W @ 10
Station #5	14.71	16.08 cpm 8/29/90 10:57 A.M. Wind: W @ 5	13.54 cpm 9/1/90 8:37 P.M. Wind: S @ 10

Station #8	14.70	16.45 cpm 8/27/90 7:35 A.M. Wind: Calm	13.40 cpm 8/26/90 9:50 P.M. Wind: NW @ 6
Station #10	13.38	16.53 cpm* 8/30/90 6:07 P.M. Wind: NW @ 6	13.02 cpm 8/29/90 10:30 P.M. Wind: SE @ 2
Station #11	11.72	14.33 cpm* 8/29/90 5:13 P.M. Wind: NW @ 6	10.78 cpm 8/30/90 10:51 P.M. Wind: NE @ 5
Station #12	11.82	13.17 cpm 8/28/90 4:25 A.M. Wind: SW @ 6	9.80 cpm 8/31/90 4:50 P.M. Wind: S @ 6

Station #1 is located 7 miles N.N.E. of TMI	Station #8 is located 7 miles N.W. of TMI
Station #2 is located 3 miles N. of TMI	Station #9 is located 13 miles W.N.W. of TMI
Station #4 is located 5 miles N.N.W. of TMI	Station #10 is located 11 miles N.W. of TMI
Station #5 is located 3 miles W.S.W. of TMI	Station #11 is located 9 miles N.W. of TMI
Station #7 is located 1 mile W. of TMI	Station #12 is located 3 miles N.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

6 Minute Reading

ALARM 32 cpm

Station # 2
(Middletown)

8-5-90 @ 11:13 A.M.
Winds: E @ 4 (cloudy)

Minutes

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

End → 6

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