



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

DEC 4 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 Monitoring Network, covering the report date of November 20, 1990 is to be processed through the NUDCCS system for TMI with its docket number 50-289, Unit 1 and 50-220, 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,

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

Enclosures:

TMI Report Dates

1. September 2-8, 1990
2. September 9-15, 1990
3. September 16-22, 1990
4. September 23-29, 1990
5. September 30, 1990 to October 6, 1990
6. October 7-13, 1990
7. October 14-20, 1990
8. October 21-27, 1990

IRAS
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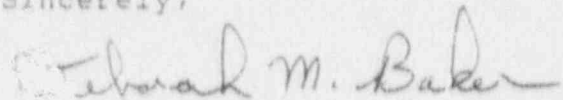
November 20, 1990

Enclosed is the report for the months of September and October, 1990. During the period we recorded a total of 13 alarms. Most of the alarms lasted for one minute before falling back to background. I have pulled the Goldsboro and Middletown monitors to check the calibration. They both are recording very accurately.

We have pulled Station #4 off line and will be relocating that monitor in the future.

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

Sincerely,



Deborah M. Baker
TMI-CMN

THREE MILE ISLAND CITIZEN'S MONITORING NETWORK

<u>09-02-90 thru 09-08-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	13.01	13.88 on 09-05-90 10:55 PM-W: Calm	12.57 on 09-03-90 11:56 PM-W: N @ 5
Station #2	14.13	15.56 on 09-08-90 4:17 PM-W: SE @ 11	11.71 on 09-07-90 4:37 PM-W: N @ 7
Station #5	14.64	15.76 on 09-06-90 11:20 AM-W: N @ 7	13.54 on 09-07-90 10:46 PM-W: NW @ 6
Station #7	13.52	13.43 on 09-07-90 11:08 AM-W: N @ 7	8.60 on 09-04-90 9:28 AM-W: SE @ 6
Station #8	15.69	19.52 on 09-05-90 6:43 AM-W: SW @ 13	13.21 on 09-02-90 8:34 PM-W: NW @ 10
Station #9	12.49	13.66 on 09-03-90 5:40 PM-W: Calm	11.73 on 09-04-90 8:30 AM-W: N @ 2
Station #10	14.28	16.31 on 09-07-90 3:59 PM-W: W @ 12	12.36 on 09-03-90 9:13 PM-W: NE @ 10
Station #11	12.09	14.36 on 09-07-90 7:54 AM-W: SW @ 9	11.07 on 09-08-90 8:59 AM-W: SE @ 6
Station #12	13.35	14.87 on 09-04-90 5:00 PM-W: SE @ 5	11.33 on 09-02-90 8:30 AM-W: W @ 7

ALARMS

Station #3
(Goldsboro) Suffered an alarm of 33 CPM's on 09-03-90 at 12:49 P.M.
The second minute registered 23 CPM's before falling
to background. Winds were N @ 8 and conditions were
sunny.

<u>09-09-90 thru 09-15-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	13.45	15.79 on 09-10-90 11:48 PM-W: W @ 3	12.71 on 09-13-90 9:54 PM-W: S @ 9
Station #2	14.17	15.00 on 09-14-90 8:49 AM-W: E @ 5	12.05 on 09-10-90 9:20 AM-W: NE @ 6
Station #5	15.11	16.60 on 09-12-90 12:01 AM-W: NE @ 5	13.89 on 09-10-90 10:11 PM-W: W @ 3
Station #7	12.10	16.03 on 09-10-90 4:34 PM-W: W @ 3	10.65 on 09-09-90 5:28 PM-W: SE @ 8
Station #8	15.21	16.77 on 09-11-90 6:20 AM-W: NW @ 7	12.45 on 09-14-90 6:30 AM-W: SE @ 5
Station #9	11.86	12.60 on 09-12-90 3:10 PM-W: Calm	10.00 on 09-10-90 11:10 PM-W: Calm
Station #10	13.81	14.53 on 09-09-90 11:21 PM-W: SW @ 5	10.91 on 09-13-90 4:55 PM-W: S @ 10
Station #11	11.33	13.72 on 09-14-90 7:37 AM-W: Calm	11.47 on 09-10-90 7:41 AM-W: NW @ 7
Station #12	13.02	15.70 on 09-09-90 5:45 PM-W: SE @ 14	11.13 on 09-12-90 5:30 PM-W: SE @ 7

ALARMS

Station #2
(Middletown) Suffered an alarm of 32 CPM's on 09-09-90 at 7:30 A.M.
The second minute registered at background. Winds were SE @ 8, conditions were cloudy.

Station #7
(Goldsboro) Suffered an alarm of 31 CPM's on 09-10-90 at 4:12 P.M.
The second minute registered at background. Winds were W @ 3, conditions were clear.

This station also suffered an alarm of 38 CPM's on 09-11-90 at 4:12 P.M. The second minute registered at background. Winds were NW @ 7, conditions were partly cloudy.

Also on 09-13-90 this station suffered an alarm of 30 CPM's at 4:21 P.M. The second minute registered at background. Winds were S @ 5, conditions were cloudy.

<u>09-16-90 thru 09-22-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	13.75	15.04 on 09-20-90 3:14 PM-W: NW @ 10	12.28 on 09-20-90 10:27 PM-W: N @ 6
Station #2	14.23	15.40 on 09-19-90* 5:18 PM-W: SW @ 6	13.10 on 09-17-90 6:24 PM-W: NW @ 10
Station #5	15.36	16.93 on 09-22-90* 8:19 AM-W: SE @ 5	14.30 on 09-16-90 8:41 AM-W: W @ 5
Station #7	11.87	14.20 on 09-22-90 4:59 AM-W: NW @ 13	10.45 on 09-18-90 9:13 AM-W: SW @ 8
Station #8	17.33	17.62 on 09-22-90 9:00 PM-W: W @ 6	15.28 on 09-21-90 7:40 AM-W: W @ 6
Station #10	13.89	18.93 on 09-16-90* 5:47 PM-W: NE @ 6	12.80 on 09-22-90* 12:05 AM-W: SE @ 5
Station #11	12.72	13.84 on 09-19-90* 3:53 PM-W: S @ 5	11.40 on 09-21-90 11:20 PM-W: SE @ 5
Station #12	12.65	14.86 on 09-16-90 8:00 AM-W: W @ 5	10.00 on 09-22-90 4:15 PM-W: N @ 8

ALARMS

Station #2 (Middletown) Suffered an alarm of 33 CPM's on 09-16-90 at 2:44 P.M. The second minute registered background. Winds were S @ 7, conditions were cloudy with light rain.

This station also suffered an alarm of 31 CPM's on 09-19-90 at 5:12 P.M. The next 4 minutes registered slightly above background before dropping to background after 6 minutes. Winds were SW @ 6, conditions were cloudy.

* indicates rain during reading

<u>09-23-90 thru 09-29-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	13.51	14.47 on 09-26-90 1:38 PM-W: E @ 7	12.60 on 09-27-90 11:18 PM-W: N @ 6
Station #2	14.56	15.50 on 09-29-90 9:27 AM-W: Calm	13.52 on 09-23-90 6:42 AM-W: SW @ 10
Station #5	15.55	17.22 on 09-26-90 7:55 AM-W: NE @ 5	14.68 on 09-25-90 9:31 PM-W: SE @ 9
Station #7	11.79	13.21 on 09-27-90 6:19 PM-W: N @ 5	10.58 on 09-23-90 7:33 AM-W: W @ 9
Station #8	16.09	17.47 on 09-23-90 11:50 AM-W: W @ 9	14.00 on 09-27-90 9:34 PM-W: N @ 5
Station #9	12.21	12.80 on 09-29-90 7:30 PM-W: W @ 3	11.53 on 09-28-90 9:45 AM-W: E @ 2
Station #10	13.73	16.33 on 09-24-90 7:46 PM-W: NW @ 7	12.24 on 09-29-90 11:38 PM-W: SE @ 5
Station #11	12.30	13.88 on 09-29-90 8:20 AM-W: Calm	10.33 on 09-27-90 11:10 PM-W: NW @ 5
Station #12	12.67	14.56 on 09-26-90 5:15 PM-W: NE @ 5	11.43 on 09-27-90 7:00 AM-W: W @ 3

ALARMS

Station #7
(Goldsboro)

Suffered an alarm of 44 CPM's on 09-29-90 at 1:56 P.M. The second minute registered at 31 CPM's before going down to background. Winds were calm, conditions were clear.

This station also suffered an alarm of 36 CPM's on 09-29-90 at 6:34 P.M. The second minute registered at 24 CPM's before going down to background. Winds were SE @ 5, conditions were cloudy.

<u>09-30-90 thru 10-06-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	12.29	13.33 on 10-02-90 10:35 PM-W: Calm	11.20 on 10-05-90 11:21 PM-W: SW @ 9
Station #2	14.18	15.01 on 10-01-90 9:10 AM-W: W @ 5	12.75 on 09-30-90 8:21 AM-W: Calm
Station #5	15.55	16.50 on 10-06-90 9:42 AM-W: Calm	14.81 on 10-06-90 7:31 PM-W: S @ 8
Station #7	11.48	12.13 on 10-02-90 2:57 AM-W: ?	10.70 on 10-01-90 8:57 PM-W: SW @ 5
Station #8	15.45	17.60 on 10-04-90 9:30 PM-W: NW @ 7	12.84 on 10-04-90 5:45 AM-W: ?
Station #9	12.49	13.33 on 10-05-90 11:10 AM-W: NW @ 9	11.66 on 10-05-90 5:20 PM-W: W @ 3
Station #10	14.84	15.60 on 10-06-90 11:25 PM-W: SW @ 9	12.09 on 10-04-90 11:15 PM-W: W @ 10
Station #11	12.01	14.00 on 10-02-90 11:05 PM-W: NW @ 6	10.91 on 10-03-90 7:38 AM-W: W @ 5
Station #12	13.52	15.33 on 09-30-90 8:30 AM-W: S @ 10	11.43 on 10-05-90 8:00 PM-W: S @ 12

ALARMS

Station #2 (Middletown) Reported two alarms this week on 10-02-90 at 12:55 A.M. and 2:20 A.M. but did not record amounts. All monitors are pre-set to alarm at 30 CPM's.

<u>10-07-90 thru 10-13-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	12.83	13.93 on 10-08-90 11:02 PM-W: Calm	12.18 on 10-09-90 10:53 AM-W: SW @ 5
Station #2	13.96	15.61 on 10-07-90 7:52 AM-W: Calm	13.03 on 10-10-90 7:50 PM-W: SE @ 10
Station #5	14.76	16.63 on 10-08-90 4:51 PM-W: Calm	14.05 on 10-11-90* 1:49 PM-W: SE @ 9
Station #7	11.60	12.58 on 10-12-90* 9:16 PM-W: SE @ 5	10.76 on 10-12-90* 6:16 PM-W: SE @ 9
Station #8	15.08	16.90 on 10-07-90 10:45 AM-W: Calm	13.13 on 10-12-90 6:50 AM-W: SE @ 6
Station #9	12.41	13.00 on 10-10-90 6:45 PM-W: NW @ 3	11.26 on 10-08-90 9:40 AM-W: Calm
Station #10	13.29	16.73 on 10-13-90* 12:10 PM-W: NE @ 5	12.42 on 10-08-90 12:28 AM-W: Calm
Station #11	12.39	13.66 on 10-13-90 10:44 PM-W: NE @ 5	11.20 on 10-09-90 11:01 PM-W: S @ 7
Station #12	13.63	16.33 on 10-07-90 5:45 PM-W: S @ 9	11.50 on 10-11-90 6:30 PM-W: NW @ 6

* Indicates rain during reading

<u>10-14-90 thru 10-20-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	12.87	13.53 on 10-15-90 11:40 PM-W: W @ 9	12.32 on 10-16-90 10:27 PM-W: Calm
Station #2	14.29	16.68 on 10-18-90* 5:08 PM-W: W @ 23	12.20 on 10-20-90 8:54 AM-W: Calm
Station #5	16.04	15.86 on 10-18-90* 1:04 PM-W: W @ 23	14.48 on 10-19-90 6:00 PM-W: NW @ 8
Station #7	11.45	14.05 on 10-18-90* 5:30 PM-W: W @ 23	10.41 on 10-20-90 6:31 PM-W: SE @ 5
Station #8	14.10	16.32 on 10-19-90 6:55 AM-W: W @ 20	11.13 on 10-20-90 7:33 AM-W: Calm
Station #9	12.52	13.60 on 10-18-90 10:30 AM-W: S @ 16	11.46 on 10-19-90 11:45 AM-W: E @ 5
Station #10	13.60	15.80 on 10-15-90 11:51 PM-W: W @ 9	12.89 on 10-17-90 11:42 PM-W: SE @ 6
Station #11	12.48	13.66 on 10-16-90 10:45 PM-W: Calm	10.85 on 10-14-90 8:56 AM-W: NW @ 5
Station #12	13.27	15.40 on 10-20-90 8:00 AM-W: Calm	10.60 on 10-15-90 6:30 AM-W: W @ 2

ALARMS

Station #2 (Middletown) Suffered an alarm of 32 CPM's on 10-17-90 at 8:19 P.M. The second minute registered at 22 CPM's before going down to background. Winds were SE @ 6, conditions were cloudy.

* indicates rain during reading

<u>10-21-90 thru 10-27-90</u>	<u>AVERAGE</u>	<u>MAX C.P.M.</u>	<u>MIN C.P.M.</u>
Station #1	12.69	13.60 on 10-23-90 10:31 PM-W: NW @ 8	10.62 on 10-27-90 10:52 PM-W: SE @ 6
Station #2	14.06	14.54 on 10-22-90 8:57 AM-W: Calm	11.80 on 10-22-90* 5:42 PM-W: E @ 5
Station #5	15.77	16.20 on 10-23-90* 10:12 AM-W: NE @ 5	14.13 on 10-24-90 8:21 AM-W: NW @ 12
Station #7	11.45	12.86 on 10-23-90* 4:17 PM-W: W @ 5	11.00 on 10-22-90 3:58 AM-W: ?
Station #8	12.96	17.20 on 10-24-90 7:22 AM-W: NW @ 12	12.20 on 10-23-90* 8:50 PM-W: ?
Station #9	12.58	13.93 on 10-23-90* 4:00 PM-W: Calm	10.60 on 10-27-90 10:19 AM-W: N @ 4
Station #10	13.79	17.20 on 10-22-90* 5:42 PM-W: E @ 5	13.43 on 10-25-90 11:27 PM-W: NE @ 14
Station #11	12.20	14.36 on 10-21-90 8:52 AM-W: E @ 6	11.32 on 10-26-90 8:08 AM-W: N @ 16
Station #12	13.24	15.26 on 10-25-90 5:15 PM-W: W @ 7	11.86 on 10-26-90 8:15 AM-W: N @ 10

ALARMS

Station #2 (Middletown) Suffered an alarm of 33 CPM's on 10-25-90 at 11:03 A.M. The second minute registered at background. Winds were NE @ 9, conditions were cloudy.

This station also suffered an alarm of 32 CPM's on 10-26-90 at 4:42 P.M. The second minute registered close to background. Winds were NE @ 14, conditions were partly cloudy.

* Indicates rain during reading

MONITOR LOCATIONS

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

Our monitors are set to alarm automatically at 30 cpm in most areas. This represents 3X's background.