TMI OBSERVATION CENTER NOBLE GAS SAMPLER

Krypton-85 exists in the atmosphere world-wide as a result of nuclear weapons testing, nuclear power generation and fuel reprocessing. These samples were analyzed in a laboratory, specifically for Krypton-85. Samples collected in the vicinity of TMI in recent months show background levels of Krypton-85 to be in the range of 20-40 pCi/m^3 (pico-curies per cubic meter).

The sample collected March 20 - March 26, 1980 contained 25 pCi/m^3.
The sample collected March 26 - April 2, 1980 contained 21 pCi/m^3.

W. D. Corkern
U. S. Environmental Protection Agency
On-Site Coordinator

bcc: John Collins, NRC✓
Thomas Gerusky, PA DER

These data have been posted for the people of Middletown.

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GOLDSBORO NOBLE GAS SAMPLER

In addition to the gamma rate recorder the EPA has installed a sampling devise, which collects a compressed air sample, at the Fire Hall. This sample is analyzed in a laboratory, specifically for Krypton-85.

Krypton-85 exists in the atmosphere world-wide as a result of nuclear weapons testing, nuclear power generation and fuel reprocessing. Samples collected in the vicinity of TMI in recent months show background levels of Krypton-85 to be in the range of 20-40 pCi/m^3 (picocuries per cubic meter).

The sample collected March 25 - March 31, 1980 contained 24 pCi/m^3.
The sample collected March 31 - April 03, 1980 contained 19 pCi/m^3.

W. D. Corkern
U. S. Environmental Protection Agency
On-Site Coordinator

bcc: John Collins, NRC ✓
Thomas Gerusky, PA DER

These date have been posted for the people of Goldsboro.

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT
ENVIRONMENTAL MONITORING SYSTEMS LABORATORY-LAS VEGAS
P.O. BOX 15027, LAS VEGAS, NEVADA 89114 • 702/736-2969 (FTS 595-2969)

Date: 04/14/80

Reply to Attn of: TMI

Subject: EPA Preliminary Data Report

To: John Collins
Deputy Director - NRC/TMI Site

Air Sampling

Stations: 3, 4, 5, 9, 11, 13, 14, 16, 23, 35, 36, 37, 38 - Collection date 04/09

Stations: 17, 20, 21, 31, 34 - Collection date 04/10/80

No reactor related radionuclides were identified.

Water Sampling

Location	Collection Date	Results*
Lancaster	04/05/80	GSN
Lancaster	04/06/80	GSN
Lancaster	04/07/80	GSN
Lancaster	04/08/80	GSN
TMI 001	04/09/80	GSN
TMI 001 (composite)	04/09 - 04/10	GSN
TMI 001 (composite)	04/10 - 04/11	GSN
TMI 001 (composite)	04/11 - 04/12	GSN

*GSN - Gamma Scan Negative

W. D. Corkern

W. D. Corkern
On-Site Coordinator

U.S. ENVIRONMENTAL PROTECTION AGENCY
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P.O. BOX 15027, LAS VEGAS, NEVADA 89114 • 702/736-2969 (FTS 595-2969)

Date: 04/09/80

Reply to Attn of: TMI

Subject: EPA Preliminary Data Report

To: John Collins
Deputy Director - NRC/TMI Site

Air Sampling

Stations: 3, 4, 9, 11, 13, 14, 16, 35, 36, 37, 38 - Collection date 04/02/80

Stations: 17, 20, 21, 23, 31, 34 - Collection date 04/03/80

Stations: 3, 4, 5, 9, 11, 13, 14, 16, 35, 36, 37, 38 - Collection date 04/04

Stations: 17, 20, 23, 31, 34 - Collection date 04/05/80

Stations: 3, 4, 5, 9, 11, 13, 14, 16, 21, 23, 35, 36, 37, 38 - Collection 04/07

Stations: 17, 20, 21, 31, 34 - Collection date 04/08/80

No reactor related radionuclides were identified.

Water Sampling

Location	Collection Date	Results*
Lancaster	04/01/80	GSN
Lancaster	04/02/80	GSN
Lancaster	04/03/80	GSN
Lancaster	04/04/80	GSN
TMI 001 (composite)	04/02 - 04/03	GSN
TMI 001 (composite)	04/03 - 04/04	GSN
TMI 001 (composite)	04/04 - 04/07	GSN

*GSN - Gamma Scan Negative

Allan E. Smith
Senior On-site Representative

GAMMA RATE RECORDER - MIDDLETOWN POLICE STATION

The chart of the radiation levels as measured by a gamma rate recorder installed at the Middletown Police Station has been reviewed for the period 5:15 p.m. 04/03/80 through 8:30 a.m. 04/07/80. The average daily readings are tabulated below. The average range figures represent the high and low values for the day excluding instantaneous fluctuations which result from power surges, line transients or other electrical causes and which immediately return to normal background levels.

Date (time)	Avg. (mR/hr)	Range (mR/hr)	Comment
04/03/80 (1715)	.010	.007 - .014	Normal Background
04/04/80	.010	.007 - .014	Normal Background
04/05/80	.010	.007 - .015	Normal Background
04/06/80	.009	.007 - .013	Normal Background
04/07/80	.009	.007 - .013	Normal Background

Allan E. Smith
U. S. Environmental Protection Agency
Senior On-Site Representative

bcc: John Collins, NRC
Thomas Gerusky, PA DER

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT
ENVIRONMENTAL MONITORING SYSTEMS LABORATORY-LAS VEGAS
P.O. BOX 15027, LAS VEGAS, NEVADA 89114 • 702/736-2969 (FTS 595-2969)

Date: April 16, 1980

Reply to Attn of: TMI

Subject: NRC Air Sample Results

To: John Collins
Deputy Director - NRC/TMI Site

Sample No.	Date On	Date Off	Volume (m^3)	^{131}I (uCi/cc)	^{137}Cs
HP-208					
(PF)	03/19/80	03/27/80	54	< 4.6E-13	< 4.6E-13
(CC)	03/19/80	03/27/80	54	< 4.6E-13	< 4.6E-13
HP-209					
(PF)		04/02/80	34	< 7.4E-13	< 7.4E-13
(CC)		04/02/80	34	< 7.4E-13	< 7.4E-13
HP-210					
(PF)		04/09/80	22.6	< 1.1E-12	< 1.1E-12
(CC)		04/09/80	22.6	< 1.1E-12	< 1.1E-12

No reactor related radioactivity was detected in any sample.

W. D. Corkern
On-Site Coordinator