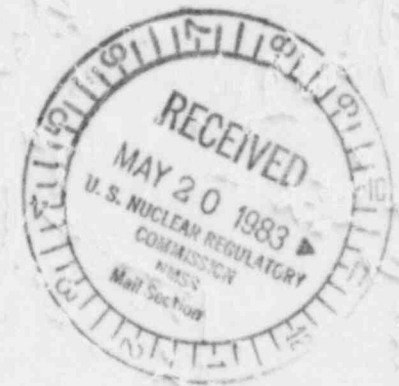


40-6506 Docket + Nixon

PDR Return to 39655

Operated for the United States Department of Energy



Mr. William T. Crow  
Assistant Director  
Fuel Cycle Safety and Licensing  
Division of Fuel Cycle and Materials  
Safety (MS 396-SS)  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Crow:

Please find enclosed a summary of data from the radon monitoring network in the Canonsburg, Pennsylvania area for the period of October 29, 1982 through January 28, 1983. During this period, the average radon concentrations ranged from 0.14 to 1.2 picocuries per liter. The concentrations at the control group locations ranged from 0.14 to 0.32 picocuries per liter and averaged 0.26 picocuries per liter. The CAR designators in this table are to be used with maps of the Canonsburg area that were sent to you on April 15, 1983.

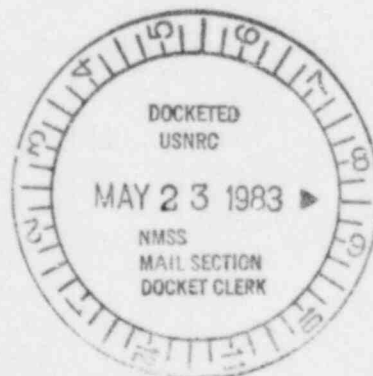
Indoor radon monitoring commenced on November 19, 1982 at one new site not marked on the location map. This new location, with designator CAR54, is located in another school building located adjacent to Location CAR53. In addition, indoor radon progeny measurements using MODs were initiated at both locations commencing December 10, 1982. A PERM was moved from outdoor Location CAR42 to outdoor Location CAR52 located on the western edge of the same block adjacent to Payne Place.

If there are any questions concerning the radon monitoring program, please call me at 513/865-4156.

Sincerely,

*Clifford R. Rudy*

Clifford R. Rudy, PhD  
Radon Program Manager



CRR:jd  
Encl.

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22308

MONSANTO RESEARCH CORPORATION

P.O. BOX 32

Miamisburg, Ohio 45342

(513) 865-4020

a subsidiary of Monsanto Company

MOUND RADON PROGRAM

SUMMARY OF CANONSBURG OFF-SITE MONITORING DATA

10/29/82 to 01/28/83

	Outdoor Location	Average Radon Concentration (pCi/liter)
1	CAR41	1.16
2	CAR02	0.83
3	CAR12	0.79
4	CAR34	0.79
5	CAR26	0.64
6	CAR33	0.56
7	CAR45	0.54
8	CAR22	0.47
9	CAR16	0.46
10	CAR18	0.42
11	CAR17	0.42
12	CAR10	0.38
13	CAR23	0.37
14	CAR52	0.36
15	CAR36	0.36
16	CAR09	0.34
17	CAR46	0.32
18	CAR37	0.32
19	CAR19	0.31
20	CAR11	0.31
21	CAR27	0.31
22	CAR35	0.30
23	CAR51	0.29
24	CAR08	0.29
25	CAR44	0.29
26	CAR15	0.29
27	CAR03	0.29
28	CAR29	0.28
29	CAR28	0.27
30	CAR43	0.27
31	CAR40	0.27
32	CAR50	0.26
33	CAR25	0.26
34	CAR13	0.24
35	CAR30	0.24
36	CAR14	0.22
37	CAR21	0.20
38	CAR24	0.16
39	CAR05	0.16
40	CAR38	0.15
41	CAR39	0.14

Average radon concentrations for the locations in the outdoor control group ranged from 0.14 to 0.32 pCi/liter and averaged 0.26 pCi/liter.

MOUND RADON PROGRAM

SUMMARY OF CANONSBURG OFF-SITE MONITORING DATA

10/29/82 to 01/28/83

	<u>Indoor Location</u>	<u>Average Radon Concentration (pCi/liter)</u>	<u>Average Radon Progeny Conc. (Working Level)</u>
42	CAR53	0.59	0.003
43	CAR54*	0.75	0.004

\*Monitoring was initiated at this location on 11/19/82.

MOUND RADON PROGRAM  
SUMMARY OF CANONSBURG ON-SITE MONITORING DATA  
10/29/82 to 01/28/83

<u>Outdoor Location</u>	<u>Average Radon Concentration (pCi/liter)</u>
#1	0.65
#2	2.0
#3	3.7
#4	1.2
#5	2.0

DOCKET NO. 40-6500  
CONTROL NO. 22308  
DATE OF DOC. 05/10/83  
DATE RECD. 05/20/83  
FCUF  FDR   
FCAF \_\_\_\_\_ LPDR \_\_\_\_\_  
WM \_\_\_\_\_ I&E REF.   
WMUR \_\_\_\_\_ SAFEGUARDS \_\_\_\_\_  
FCTC \_\_\_\_\_ OTHER \_\_\_\_\_

DESCRIPTION:

enclosed a summary of  
data from the radon  
monitoring networks  
in the Canonsburg Pennsylvania  
area for the period of 10/29/82 thru 01/28/83  
05/23/83 INITIAL C&C