

**Garner Correction Institution
 Deputy Warden Denise Dilworth
 Connecticut Department of Correction**



**TO: Roll Call
 FROM: Deputy Warden Denise Dilworth
 DATE: May 2, 2014
 RE: Draft Design for Garner**



The Director of Facilities Management and Engineering, Stephen Link, has received the draft remediation design for Garner and they are reviewing it and corresponding with the consultant with comments/questions. At this time it is not ready to use for bidding however they are working as fast as possible to bring it to that point. They should be able to achieve this next week. The process once they have an acceptable design is:

- Choose a contractor and based on the design and walk-through get an estimate/bid
- Send an emergency project request with design and estimate to DCS for approval
- Once they receive approval a PO can be issued to the contractor

They will expedite all phases as much as possible while making sure we get a good product/project.

**c: Warden Henry Falcone
 Deputy Warden Hein
 All Captains/Counselor Supervisors/Lieutenants/Unit Managers/Department Heads**

3rd Shift								
1st Shift								
2nd Shift								

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

Jewel Mullen, M.D., M.P.H., M.P.A.
Commissioner



Dannel P. Malloy
Governor
Nancy Wyman
Lt. Governor

Environmental Health Section Radon Program

January 27, 2014

Richard Pease
Department of Correction (DOC)
24 Wolcott Hill Road
Wethersfield, CT 06109

Dear Mr. Pease:

The Department of Public Health Radon Program has performed radon in air testing at the Garner Correctional Institution (GCI) at 50 Nunnawauk Road in Newtown, CT. Specifically, the Radon Program conducted initial testing for radon in air from December 11-17, 2013 and follow-up/confirmatory testing from January 13-16, 2014.

A letter was distributed to all GCI staff on December 3, 2013 for notification purposes of the radon testing event (See Attachment A). Air testing was conducted in all frequently occupied school rooms under "closed building conditions", during the weekday period of the colder months of the year, with the building occupied, and the heating, ventilation, and air-conditioning (HVAC) systems operating normally. Testing was conducted using AirChek, 3-7 day, activated, charcoal tests manufactured by AirChek, Inc. These tests contain no metal parts and are designed to resemble an envelope that includes a small amount of activated charcoal and a small rectangular piece of porous foam in the inner envelope and a small plastic hook attached to the outer envelope. Testing included the use of blank (Rm IDs 2001B-2005B & 1001B-1004B), duplicate (Associated room ID followed by a -1D or -2D), and spiked (Room IDs 1001S-1004S) tests as part of the Quality Assurance/Quality Control (QA/QC) plan and conducted in accordance with the United States Environmental Protection Agency (EPA) and State of Connecticut Department of Public Health (DPH) protocols. No QA/QC issues were identified that required further investigation. Test placement and retrieval was completed by DPH staff, Allison Sullivan and Lynn Hudak, who were approved by the DOC Security Division and authorized to visit the DOC facilities (see Attachment B). All radon tests were analyzed by AirChek, Inc. of Mills River, North Carolina and the QA/QC spiked samples were exposed for 3 days in a radon chamber at Bowser-Morner, Inc. of Dayton, Ohio. All radon test reports can be found in Attachment C of the report.



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Radon concentrations at and above 4.0 pCi/L were found in some locations at GCI during the initial testing in December, 2013. Follow-up testing was conducted at GCI to confirm these elevated radon levels in January, 2014. Out of 117 test locations at this facility, 58 test locations had radon levels at or above the EPA Action Level of 4.0 pCi/L at which mitigation is recommended. Radon mitigation by a qualified Radon Mitigation Professional is recommended for the locations listed in the following table.

Test Location	Initial Radon Results Over 4.0 pCi/L	Follow-Up Radon Results (pCi/L)	Average of Highest Initial and Highest Follow-up (in pCi/L)
277 Lower Main Control	5	5.4	5.2
277 Upper Main Control	4.6	5.6	5.1
701 Chapel	9.3	4.8/5.2	7.3
706B	6.3	5.9	6.1
707 Chapel Foyer	7.5	4.8	6.2
708B	7.1	4.5	5.8
806 Classroom 3	4.7	4.7	4.7
807 Classroom 2	4	4.4	4.2
812B	4.8/3.6	3.9	4.4
829B	6.4	4.5	5.5
830A	4.2	4.3	4.3
834	4.8	3.8	4.3
835	4.7	3.8	4.3
838	4.6	3.7	4.2
839	3.5/5.5	4.8	5.2
840	5.5	4.2	4.9
842	6.2	4.2/4.1	5.2
843	4.5	3.4	4
844	5.2	4.2	4.7
847A	5.3	3.9	4.6
849	4.4	4.3	4.4
850	5.1	5.1	5.1
853A	4.9	3.9	4.4
860 Gym Office	5.5	4	4.8
Gym-WD Front	5	4.9	5
Gym-WC	5.5	6.4	6
Gym-WD Back	5.8	5.4	5.6
104 Administration	11.1	9.5/9.8	10.5
107A	7.0/7.0	8.5	7.8
108 Rec	8.3	8.6	8.5
109 Rec	7.9	8.7	8.3

115 Visitor Station	8.1	9.3	8.7
117A Rec-Rear	6.9	7.3	7.1
119A Conference Room	7.7	9.1	8.4
120 Lounge	8.4	10.1	9.3
124 Rec	7.8	6.9	7.4
128A Work Room	8.1	8	8.1
156A Weight Room	8.9	8.6	8.8
163 Phone Room	8.5	7.9	8.2
165	7.8/8.3	8.2	8.3
176	9.8	11.5	10.7
306 Medical	20.6	18.8/18.9	19.8
308 Medical	15.8	16.8	16.3
313 Laboratory	18.7	19.3	19
314 Pharmacy	22.1	18.3	20.2
316 Medical	17.3	17.2	17.3
317 Medical	17.7	18.8	18.3
318 Medical	21.9	19.1	21
322 Medical	17.4	16.3	16.9
325 Medical	15.9	15.9	15.9
326 Medical	13.6	15.7	14.7
327 Medical	21.1	20	20.6
328 Medical	19.5	15.7	17.6
330 Dental	23.8	19.3/20.3	22.1
331 Medical	23.7	21.5	22.6
333 Medical	21.9/20.9	21.4	21.7
334 Medical	18	17	17.5
Records Area-WA	7.2	9.8	8.5
Records Area-WC	6.7	8.6	7.7

The most up-to-date list of Radon Mitigation Professionals can be found at the following address: www.ct.gov/dph/radon. A hard copy of the list only considered up-to-date as of the date of this report is provided in Attachment D.

It is also recommended that the following rooms be considered for mitigation because even though the average was not at or above 4.0 pCi/L, either the initial or follow-up result was at near 4.0 pCi/L. These locations include: C136, D120 Mental Health, D136 Nurse, and F136 Nurse.

In summary, at least 58 locations in the facility should be addressed in the radon mitigation plan designed by a qualified radon mitigation contractor not including the 10 school rooms that were previously identified as having radon levels at or above 4.0 pCi/L. Therefore, a total of 68 locations were found to have elevated levels of radon in air. Once reduced, these rooms should

be tested to ensure that the mitigation system is effective and then re-evaluated every 2.5 years to ensure the mitigation system is working properly as an important part of system maintenance.

If you have any questions or concerns, do not hesitate to contact me to discuss any aspect of the radon testing activities. I am happy the Radon Program was able to assist you in the radon testing efforts to promote a healthy environment for GCI residents and staff.

Sincerely,



Allison Perry Sullivan
Environmental Analyst 3
Radon Program

Did You Know?



"Did You Know" is an informational column aimed at increasing your knowledge of issues in our everyday lives. This article was compiled by Public Information Officer Andrius Banevicius. Any questions related to this article may be answered by contacting him at 860-692-7780. If you have any questions, or have an idea for a future column, please leave a message at 860-692-7780.

Radon Mitigation

Recently, as a result of some routine mandated testing within our correctional facilities, the Garner Correctional Institution was found to have increased levels of radon. This discovery prompted our agency to partner with the Department of Public Health (DPH) to formulate an action plan.

Before delving into the details of the plan, it might help to know a little bit about radon. Anyone who has purchased a home since 1984 has probably had a radon test done during the buying process.

Radon is an odorless, invisible, radioactive gas that is found in varying amounts in the earth. Radon is found in all 50 states and about 1 out of 15 homes in the U.S. have high levels of radon. Prolonged exposure to high levels of the gas has been linked to lung cancer.

Radon can enter indoor air environments through structural spaces, cracks and pores in the floors and walls. Radon is the heaviest known gas, nine times heavier than air – this is why the highest concentrations of radon are typically found in a building's basement. Current Environmental Protection Agency guidelines suggest that action be taken if the radon level in any occupied part of a building reaches or exceeds 4 pCi/L. Radon is measured in picocuries per liter of air (pCi/L). To understand the relative amounts you may be exposed to, the average indoor level is 1.3 pCi/L, and about 0.4 pCi/L is normally found in the outside air.

The DPH has determined that the levels of radon found at Garner CI do not require evacuation;

instead they recommended that a mitigation system be installed. The system typically involves the installation of a venting system that draws the radon gas from the ground beneath the building, and exhausts it above the roofline where it is quickly diluted.

A design consultant and licensed contractors have been secured and the remediation process is in motion. Locations that previously tested for elevated levels of radon will be re-tested after the mitigation system is installed to ensure the system is reducing radon levels as intended.

The Department is committed to keeping its employees informed as we move forward with collaboration between the Garner administration, Engineering, Human Resources, DPH and union officials. If you have any questions or concerns surrounding this process, a complete report of the radon test results is available for review in the Administrative Office (room 104) of the Garner Correctional Institution. You also have the ability to complete a WC207 package. The following link to the DPH website provides additional information about radon:

http://www.ct.gov/dph/cwp/view.asp?a=3140&q=387592&dphNav_GID=1828&dphPNavCtr=#47072

