



DEPARTMENT OF THE NAVY
NAVAL SUPPORT ACTIVITY WASHINGTON
1411 PARSONS AVENUE SE STE 340
WASHINGTON NAVY YARD, DC 20374-5034

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01 Aug 18

From: Commanding Officer, Naval Support Activity Washington
To: Occupants of Naval Support Activity Washington
Via: Activity Leadership/Tenants/Building Managers, Naval Support Activity Washington
Subj: UPDATED RESULTS OF THE 2017-2018 NAVAL SUPPORT ACTIVITY RADON SURVEY AT NAVAL SUPPORT FACILITY, NAVAL OBSERVATORY

Encl: (1) Updated Radon Survey Results for NSF Naval Observatory
(2) Frequently Asked Questions

1. Beginning in October 2016, NSAW initiated a project to conduct a radon assessment in occupied nonresidential buildings at NSAW installations. We initiated this action because we are committed to providing a healthy environment for our tenant commands, workforce, service members and employees. According to OSHA and the National Cancer Institute, exposure to indoor radon is the second leading cause of lung cancer in the United States and the number one cause among nonsmokers. This project enables us to identify areas of elevated levels of radon and to begin to take steps to mitigate those areas to ensure a safe and healthful work environment.
2. We placed almost 2,000 radon detectors in occupied areas NSAW wide during May to June 2017. The testing period lasted for one year and the detectors were collected in May to June 2018 for analysis.
3. The delayed result for Building 52, Room 119, has been received and is below the Navy's radon action level of 4.0 pCi/L.
4. Based on the tested radon levels and Navy radon program protocols, radon mitigation is not required for any spaces at Naval Support Facility Naval Observatory.
5. A full list of test results, including the exact location of each detector and the associated radon readings, are in Enclosure (1). They are also available online at <http://www.cnmc.navy.mil/NSAWRadon>.
6. The safety and well-being of our workforce is an utmost priority. Our medical health professionals and environmental professionals are available to answer any questions personnel may have at any time. We have also constructed a Frequently Asked Questions document, available in Enclosure (2), that addresses many of the questions and concerns that you may have. For any questions not addressed in Enclosure (2), please email: radon.nsaw@navy.mil

G. A. DICKS

ENCLOSURE 1

Building ID	Floor Level	Room	Device ID	Type	Device Type	Place Date	Retrieve Date	Device Radon Level Result (pCi/L)	Mitigation Category Assigned	Comments
NAVAL OBSERVATORY SPACE 1	01	Library	235781-2	ATD	2nd	5/17/2017	5/23/2018	2.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	Library	484421-3	ATD	1st	5/17/2017	5/23/2018	2.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	P	187898-2	ATD	2nd	5/17/2017	5/23/2018	1.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	P	705480-2	ATD	1st	5/17/2017	5/23/2018	1.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	Q	220440-2	ATD	2nd	5/17/2017	5/23/2018	1.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	Q	357377-1	ATD	1st	5/17/2017	5/23/2018	1.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	QB	266806-9	ATD	2nd	5/17/2017	5/23/2018	1.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	QB	401499-9	ATD	1st	5/17/2017	5/23/2018	1.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	QC	266815-0	ATD	1st	5/17/2017	5/23/2018	1.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	QC	631980-0	ATD	2nd	5/17/2017	5/23/2018	1.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	R	220753-8	ATD	2nd	5/17/2017	5/23/2018	1	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	R	356687-4	ATD	1st	5/17/2017	5/23/2018	1.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	S	356861-5	ATD	2nd	5/17/2017	5/23/2018	1.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	S	356865-6	ATD	1st	5/17/2017	5/23/2018	1.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	T	306600-8	ATD	2nd	5/17/2017	5/23/2018	1.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	T	357379-7	ATD	1st	5/17/2017	5/23/2018	1.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	Tony Jordan	166587-6	ATD	1st	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	Tony Jordan	236074-1	ATD	2nd	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	U	235809-1	ATD	2nd	5/17/2017	5/23/2018	2.1	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	U	743968-0	ATD	1st	5/17/2017	5/23/2018	2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	YA	356906-8	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	YA	357468-8	ATD	1st	5/17/2017	5/23/2018	0.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	YB	477083-0	ATD	1st	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 1	01	YB	610207-3	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Clancy	400296-0	ATD	1st	5/17/2017	5/23/2018	0.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Clancy	689841-5	ATD	2nd	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Cubicle Area	357291-4	ATD	2nd	5/17/2017	5/23/2018	1.1	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Cubicle Area	406512-4	ATD	1st	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Gilliand	154481-6	ATD	1st	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Gilliand	991781-6	ATD	2nd	5/17/2017	5/23/2018	1.1	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Melendez	205216-5	ATD	1st	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Melendez	357227-8	ATD	2nd	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Wasson	356772-4	ATD	1st	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 19	01	Wasson	405917-6	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 2	01	Hartkopf	113427-9	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 2	01	Hartkopf	357469-6	ATD	1st	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 2	01	Mason	126086-8	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 2	01	Mason	356609-8	ATD	1st	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 3	01	Conference Room	106656-2	ATD	2nd	5/17/2017	5/23/2018	1.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 3	01	Conference Room	636833-6	ATD	1st	5/17/2017	5/23/2018	1.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 3	01	Left Wing	158700-5	ATD	1st	5/17/2017	5/23/2018	1.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 3	01	Left Wing	357358-1	ATD	2nd	5/17/2017	5/23/2018	1.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 3	01	Right Wing	104556-6	ATD	2nd	5/17/2017	5/23/2018	1.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 3	01	Right Wing	145487-5	ATD	1st	5/17/2017	5/23/2018	1.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	103	159820-0	ATD	2nd	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	103	357285-6	ATD	1st	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	110	356337-6	ATD	2nd	5/17/2017	5/23/2018	0.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	110	406147-9	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required

NAVAL OBSERVATORY SPACE 52	01	113	357434-0	ATD	1st	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	113	406470-5	ATD	2nd	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	114	356808-6	ATD	2nd	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	114	357282-3	ATD	1st	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	118	400274-7	ATD	1st	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	118	667290-1	ATD	2nd	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	118A	235860-4	ATD	2nd	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	118A	356616-3	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	119	204626-6	ATD	2nd	5/17/2017	6/28/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	119	627078-9	ATD	1st	5/17/2017	6/28/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	123	400304-2	ATD	2nd	5/17/2017	5/23/2018	0.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	123	400783-7	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	124	356706-2	ATD	2nd	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	124	406480-4	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	N6 Conference Room	145697-9	ATD	2nd	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	N6 Conference Room	165239-5	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	N6 Dept. Cubicle Area	357194-0	ATD	2nd	5/17/2017	5/23/2018	0.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	N6 Dept. Cubicle Area	406190-9	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	Workshop	203985-7	ATD	2nd	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	Workshop	356340-0	ATD	1st	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	Workshop	356977-9	ATD	2nd	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52	01	Workshop	357178-3	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	104	357313-6	ATD	1st	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	104	400842-1	ATD	2nd	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	105	207020-9	ATD	1st	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	105	357092-6	ATD	2nd	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	106	177627-7	ATD	2nd	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	106	786463-0	ATD	1st	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	108	174334-3	ATD	1st	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	108	406686-6	ATD	2nd	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	109	357355-7	ATD	1st	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 52A	01	109	653453-1	ATD	2nd	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106A	406578-5	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106A	774164-8	ATD	2nd	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106B	156671-0	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106B	357062-9	ATD	2nd	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106C	357224-5	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106C	357239-3	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106E	357125-4	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106E	400529-4	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106F	696112-2	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106F	973044-1	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106G	401633-3	ATD	2nd	5/17/2017	5/23/2018	0.3	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106G	980255-4	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106H	401114-4	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	106H	406379-8	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	109	356348-3	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	109	400010-5	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	B1	1-A	357281-5	ATD	1st	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	B1	1-A	406679-1	ATD	2nd	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	B1	1-B	260867-7	ATD	2nd	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	B1	1-B	357014-0	ATD	1st	5/17/2017	5/23/2018	0.4	4	Mitigation not required

NAVAL OBSERVATORY SPACE 56	B1	1-C	266225-2	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	B1	1-C	406466-3	ATD	2nd	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	Conference Room	265721-1	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	Conference Room	745528-0	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	Dr. Rey	400201-0	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 56	01	Dr. Rey	400306-7	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Conference Room	357435-7	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Conference Room	635506-9	ATD	2nd	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	357430-8	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	233238-5	ATD	2nd	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	401432-0	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	401713-3	ATD	2nd	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	401559-0	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	702797-2	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	597405-0	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office	406687-4	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office Area	142703-8	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Office Area	401357-9	ATD	2nd	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Reception	406191-7	ATD	2nd	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Reception	789477-7	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Surveillance Room	356803-7	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 59	01	Surveillance Room	788783-9	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 61	01	BR1	313630-6	ATD	1st	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 61	01	BR1	400356-2	ATD	2nd	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 61	01	BR2	357391-2	ATD	1st	5/17/2017	5/23/2018	0.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 61	01	BR2	400579-9	ATD	2nd	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 61	01	Living Room	178631-8	ATD	2nd	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 61	01	Living Room	231072-0	ATD	1st	5/17/2017	5/23/2018	0.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	102A	356655-1	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	102A	401206-8	ATD	2nd	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	102B	406167-7	ATD	1st	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	102B	406508-2	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	121	180389-9	ATD	2nd	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	121	401605-1	ATD	1st	5/17/2017	5/23/2018	0.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	126	356497-8	ATD	2nd	5/17/2017	5/23/2018	2.4	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	126	478835-2	ATD	1st	5/17/2017	5/23/2018	2.5	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	129	357347-4	ATD	1st	5/17/2017	5/23/2018	1.9	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	129	401550-9	ATD	2nd	5/17/2017	5/23/2018	2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	130	126542-0	ATD	1st	5/17/2017	5/23/2018	1.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	130	236411-5	ATD	2nd	5/17/2017	5/23/2018	1.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	Chamber 125	357171-8	ATD	1st	5/17/2017	5/23/2018	1.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	Chamber 125	357453-0	ATD	2nd	5/17/2017	5/23/2018	1.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	GPS Server Room	401011-2	ATD	2nd	5/17/2017	5/23/2018	3.1	4	Mitigation not required
NAVAL OBSERVATORY SPACE 78	01	GPS Server Room	572899-3	ATD	1st	5/17/2017	5/23/2018	3.1	4	Mitigation not required
NAVAL OBSERVATORY SPACE 8	01	Holman	236254-9	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 8	01	Holman	356894-6	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 8	01	Office Area	203423-9	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 8	01	Office Area	268260-7	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 8	01	Office Area	357212-0	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 8	01	Office Area	404546-4	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 91	01	Cubicle Area	406046-3	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 91	01	Cubicle Area	764263-0	ATD	2nd	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required

NAVAL OBSERVATORY SPACE 91	01	Lt Cruz	695687-4	ATD	1st	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 91	01	Lt Cruz	966876-5	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 91	01	Office	117012-5	ATD	2nd	5/17/2017	5/23/2018	0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE 91	01	Office	607774-7	ATD	1st	5/17/2017	5/23/2018	< 0.2	4	Mitigation not required
NAVAL OBSERVATORY SPACE A	01	Kitchen	145433-9	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE A	01	Kitchen	401772-9	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE A	01	NEA Office	111547-6	ATD	2nd	5/17/2017	5/23/2018	0.7	4	Mitigation not required
NAVAL OBSERVATORY SPACE A	01	NEA Office	357452-2	ATD	1st	5/17/2017	5/23/2018	0.6	4	Mitigation not required
NAVAL OBSERVATORY SPACE A	01	USSS Office	133047-1	ATD	1st	5/17/2017	5/23/2018	0.8	4	Mitigation not required
NAVAL OBSERVATORY SPACE A	01	USSS Office	159927-3	ATD	2nd	5/17/2017	5/23/2018	0.8	4	Mitigation not required

LEGEND

Column A – Installation and Building Number

Column B – The floor the detectors were installed on

Column C- Room detectors were installed in, each room was given two unique detectors for comparative purposes

Column D- Unique Radon Detector ID#

Column E- Type of Detector (ATD – Alpha Track Detector)

Column F – Device Type = 1st and 2nd refers to the collocated detectors

Column G – Date the detectors were placed

Column H – Date the detectors were retrieved

Column I – Radon measurement (pCi/L); 4 pCi/L is the action level; See Carderock's elevated measurement.

Column J - Mitigation Category Assigned: 1 - mitigation within 3 weeks required; 2 - mitigation within 6 months required; 3 - mitigation within 2 years required; 4 - no mitigation required

Column K – Comments

APPENDIX B: QUESTIONS AND ANSWERS

Q. Why did you test for radon?

A. The health of military personnel and civilian employees is a primary concern of the Navy. When medical studies showed that radon could be a potential health risk, the Navy developed a program called the Navy Radon Assessment and Mitigation Program (NAVRAMP) to identify and manage radon at all naval installations worldwide. Testing is a key component of the NAVRAMP.

UNDERSTANDING RADON

Q. What is radon?

A. Radon is a colorless, odorless, tasteless gas that is produced by the radioactive decay of naturally occurring uranium which is a common component of the soil and rocks under all homes and buildings around the world. Outdoors, radon is diluted by the atmosphere. However, in enclosed places, radon can accumulate at levels requiring corrective action.

- Naturally uranium decays into other elements, one of them being radon gas. The gas molecules work their way up through the soil and rock fissures to escape into our air.
- We breathe small concentrations of it every time we step outdoors.
- Radon undergoes several more radioactive decays, creating radioactive substances known as radon daughters or progeny. The atom finally decays into a stable atom.
- As radon progeny undergo radioactive decay, radiation is released in forms that include
 - High-energy alpha particles,
 - Beta particles, and
 - Gamma radiation.
- Radon is present in outdoor air but may also collect in basements or ground level spaces. Thus, indoor environments are commonly studied to determine whether radon is present at high concentrations.
- Long-term exposure to radon gas at high concentrations can potentially impact health over time.

Wherever air or moisture seeps into building drains, joints, pores, cracks, foundations or exterior walls, radon levels can increase.

Q. How does radon enter a building?

A. There are a variety of ways in which radon may enter a building. Most commonly by simple diffusion through building materials, cracks and structural openings, drainage pipes, etc. In addition, improperly balanced or designed HVAC systems, use of exhaust systems with insufficient make-up air (negative pressure) and building envelope tightness.

Q. How common is radon?

A. Radon comes from natural breakdown (radioactive decay) of uranium. It is usually found in rock and soil uranium in varying amounts throughout the earth's crust, and has been found in almost every country in the world. No area in the world is considered radon free.

Q. Can it be completely removed from indoor spaces?

A. Radon is a naturally occurring gas that is everywhere. Unlike other environmental hazards, radon cannot be eliminated, only minimized. However, with the installation and proper maintenance of a mitigation system, radon levels can be reduced and controlled.

RADON TESTING REQUIREMENTS FOR NAVY FACILITIES

Q. What is NAVRAMP?

A. The Navy Radon Assessment and Mitigation Program (NAVRAMP) is the Navy's plan to identify, mitigate and prevent radon in Navy-occupied buildings.

Q. What other buildings were tested and how elevated were the results?

A. Please refer to Appendix E for a complete list of rooms and buildings, as well as the results for those areas.

Q. Who is responsible for conducting radon tests within Naval Support Activity Washington buildings?

A. Public Works Department (PWD) Environmental has overall environmental monitoring responsibilities for all NSAW facilities. PWD Environmental in coordination with NAVFAC and their contractor MultiMAC JV conducted this round of tests.

RADON GUIDELINES PER EPA AND OSHA

Q. What is the EPA action level for radon?

A. The U.S. EPA has a recommended action level of 4 pCi/L. This action level is for residential exposure. EPA recommends mitigation of any home or school whose radon level is above 4 pCi/L. The Navy, however, adheres to its Environmental Readiness Program Manual (OPNAV M- 5090.1) and the Navy Radon Assessment and Mitigation Program (NAVRAMP) for standards and guidance on radon and has adopted the EPA action level (4 pCi/L) for its buildings, including office buildings.

Q. What is the OSHA Permissible Exposure Limit for Radon?

A. For work areas occupied for 40 hours per week, with an exposure to radon greater than 100 pCi/L, OSHA requires employers to take action (either by eliminating the hazard, effecting mitigation or reducing the number of hours worked in the area)¹. None of the buildings tested exceed the OSHA standard of 100 pCi/L.

MITIGATION AND NOTIFICATION

Q. What is the plan to mitigate the exceedances found during the testing?

A. The most common contributor to high radon readings is the improper balancing of the HVAC systems, and therefore, changing the ground floor rooms from negative to positive pressure is the

¹ Occupational Safety and Health Administration. Radon. 2005.
https://www.osha.gov/dts/chemicalsampling/data/CH_265469.html

most effective action that may be taken in the near term without taking structural mitigation measures.

We have engaged MultiMAC JV consultants to conduct diagnostic evaluations of the facilities. The in-depth evaluations will pinpoint problem locations and recommend specific mitigation for the affected facilities.

Radon mitigation can be divided into two basic categories: passive and active. Passive mitigation is defined as a nonmechanical means of radon reduction or control by the use of sealing cracks, balancing an existing mechanical system, installing a passive stack vent pipe, or increasing the natural ventilation rate of the building substructure (i.e., the crawlspace). The other category, active mitigation, involves using mechanical means, such as a fan or blower, to either dilute or control the entry of radon into the living area. Because of the diversity in style and construction of naval installation buildings, a single mitigation approach for all buildings at an installation is not likely.

Q. How were employees notified of the testing results?

A. Employees were notified by the NSAW Commanding Officer, who sent a letter on 2 July to personnel who worked in the affected buildings. Email notices also went out to affected employees / occupants, through their respective chains of command. NSAW Commander and NAVFAC Washington Executive Officer sent notices to affected employees.

A link to the NAVRAMP, which discusses procedures for testing can be found at:

- https://cnic.navy.mil/regions/ndw/installations/nsa_washington/om/environmental-support-/radon-testing-introduction-.html

HR CONCERNS/WORKERS' COMPENSATION AND REASONABLE ACCOMMODATIONS

Q. While this issue is being mitigated, will you offer affected employees alternate work sites or allow them to telework?

A. Per OSHA standards, the levels of radon detected in all surveyed buildings pose no immediate health risk. Employees who may have further questions or concerns should address those with their supervisors.

Q. Is there a form available for potential claims for hazardous exposure on the jobsite?

A. Our Legal and Human Resources teams are working on this and we will have an answer soon.

Q. Under the Federal Employees Compensation Act, will employees be compensated by Worker's Compensation for exposure to radon in the workplace?

A. Exposure to a workplace hazard such as radon does not constitute a work-related injury entitling an employee to reimbursement for medical expenses or lost wages unless the employee has sustained an injury or medical condition as a result of that exposure.

Q. Will Worker's Compensation pay for employee treatment or other measures designed to protect themselves from radon exposure?

A. Worker's Compensation is an insurance provided by the employer that is designed to reimburse employees for medical expenses and or lost wages incurred due to work-related injuries. Worker's Compensation is neither funded nor intended to pay for preventive or protective measures.

Q. Will Workers Compensation pay for an employee to be tested for radon exposure?

A. There are no recommended or accepted medical tests for Radon exposure. Furthermore, the law (29 CFR 1910.1096, Ionizing Radiation Standard) does not recommend medical surveillance or monitoring following radon exposure in the work place. The Federal Employee Compensation Act (FECA) does not provide for routine examination of an employee who has been exposed to hazards of the workplace unless it is part of a diagnostic work-up leading to medical diagnosis of a causally work related disease.

Q. Who may I contact for additional information about Radon or the tests that were completed?

A. You are encouraged to follow the appropriate chain of command and speak to your supervisor about any questions or concerns. In addition, some helpful information may be found on the US EPA website (radon homepage) at: <http://www.epa.gov/radon>. Additionally, you can contact the WNY Branch Health clinic for any questions regarding Radon Exposures at 202-433-3758 during normal working hours of 0700 – 1530.

HEALTH CONCERNS

Q. How do we really know the workforce is doing fine until such time that they have been given all the information (levels over time, in each room, what, if any, mitigation efforts have been implemented and on what schedule, level of knowledge regarding radon and its health effects, etc.,).

A. Leadership is committed to being completely open and transparent with regard to the radon levels in NSAW's facilities. The PWD and NAVFAC Washington Environmental team is working to put together the radon history in these same buildings. All results will be posted: www.cnmc.navy.mil/NSAWRadon

Q. Can and should I wear a mask?

A. Navy policy contained in OPNAVINST 5100.23 states that activity programs shall permit the issuance of respiratory protection for "workers in areas known to have contaminant levels requiring the use of respiratory protection."

Q. Can we get a copy of the results of the radon-measuring/detection devices that were in our immediate areas?

A. Yes, the results from the testing can be found at www.cnmc.navy.mil/NSAWRadon

Q. What are the health concerns or hazards for the employees who have been exposed to elevated levels of radon?

A. While there are no safe levels of radon, occupational exposure to radon would fall under the Department of Labor - OSHA standards. Under this standard, the Permissible Exposure Limit (PEL) for Radon is 100 pCi/L for an adult worker during a 40-hourwork week¹. Radon exposure

poses an increased risk to the individual of developing lung cancer later in life but the concentration in our buildings is below OSHA limits. We are monitoring and have put mitigation efforts in place to reduce that risk even further.

Q. Where can employees go for more information if they have health concerns?

A. Health concerns can be addressed through your private physician or health provider. You can go to the NSAW Radon web page: www.cnmc.navy.mil/NSAWRadon. Employees can also contact Dr. Paresh V. Lakhani, MD, MPH, MBA, Chief of Occupational Health at the WNY Branch Health Clinic (paresh.v.lakhani.civ@mail.mil). The EPA also has radon information available online at: www.epa.gov/radon.