

HSA BUILDING FACT SHEET

Building No. / Name Building #2540 (CECOM Lab)
Installation Fort Monmouth

Original / Former Use

N/A

Current Tenant / Use

CECOM Laboratory and Radiological testing; New World Technologies is current laboratory contractor

Construction Information

Western half of building was built first, and then eastern half addition (2540A) was added to include radiological laboratories in 1997. Building does not contain any sink disposals. HEPA filter is used, fumes vent to atmosphere. A floor drain is present in the lab, which drains to the sanitary sewer.

<u>Date of Construction:</u>	<u>Early 1990's</u>	<u>Construction Material:</u>	<u>Concrete</u>
<u>Total Sq. Footage:</u>	<u>7,920</u>	<u>Renovation Information:</u>	<u>Building addition in 1997</u>
<u>Floors:</u>	<u>1</u>	<u>Current Building Status:</u>	<u>Existing</u>

Sources of Information (*Document No's Used, Interviews, etc.*)

- Document Reviews – Ref. 047, Ref. 048, Ref. 049, Ref. 059, Ref. 060, Ref. 063
- Site Visit and Interviews – Ref. 001

Radiological Data Summary (*RCOPCs, Impacted Room(s) / Area(s), etc.*)

- Due to the presence of several Health Physics Laboratories, a nuclear counting laboratory, and a Radioactive Waste Storage Facility, Building 2540 was noted as a building of interest on a list provided by Barry Silber of the CECOM Safety Office (Ref. 045).
- CECOM Safety inventory lists (Ref. 047) cite multiple radiological materials still in use and Radiation Protection Surveys (Ref. 048) are being regularly conducted in Building 2540, specifically mentioning calibration range (room 108), radiological lab, prep lab (room 102), calibration lab, radwaste storage, excess waste storage (room 109), exposure room, irradiator room, and panoramic range (106A). Some survey results show levels elevated beyond background in certain locations. The surveys note that a Mobile Laboratory that was considered part of this building had a closeout survey completed in August 2001.
- Minutes from Radiological Control Committee Meetings (Ref. 049) discuss the disposal of low-level waste (drums containing tritium exit signs and smoke detectors) by shipping to Wright Patterson Air Force Base as well as an inventory of sources, smoke detectors, instruments, etc.
- Radiological Work Permits were issued for the use of x-ray machines, calibrator use of Cs-137, Pu-238, Tc-99, and Co-60, research and development use of Cs-137, a Ra-Be source, Cf-252, and Co-60, and demilitarization activities from excess storage of Th-232, Ra-226, and H-3 (Ref. 063).

**HSA and Addendum to Environmental Condition of Property
Fort Monmouth**

Materials used on site are covered under NRC licenses and R & D licenses; testing is done in a low-level environmental lab (*e.g.*, use of HPGe detector, scintillator, etc.); a 120 mCi storage area is at this location; building contains an irradiator room (Room 7) with a 2000-Ci Co-60 source (decayed) and activity of 500 mR/h; Cf-252 is used for calibration and instrument testing, along with various sealed sources. One of the laboratories has a fume hood, which has been regularly surveyed. Some work involving liquids has been done in the building (Ultima Gold Liquid Scintillation fluids).

A storage room adjacent to the building (Room 109) contains unused sealed sources/devices, including Radiac meters (for training) and 10 55-gallon drums containing items such as smoke detectors and tritium compasses – dose is at mCi levels. [Items here are included under the Logistics License.]

Preliminary MARSSIM Classifications

Impacted, MARSSIM Class 1

Site Visit Information (*Date Toured, Site Contact, Security Issues, Photos Taken*)

Site visit conducted July 10, 2006 by Bob Dover, Michele Driscoll, and Hank Siegrist, accompanied by representatives from Shaw Environmental. Site contact is Barry Silber, CECOM RSO. Site visit included interviews with Mr. Silber and two resident contractors, Laboratory Supervisor, Jason Simpson of New World Technologies and Ed Grover, Joint Project Manager for NBC Contamination Avoidance from Edgewood.

Additional Information:

Nearby “Butler Building” is used to store Radiac equipment only, not sealed calibration sources.

Representative Photographs/Floor Plans/Drawings

Floor plan provided. Tenant requested that no photos be taken of this building.