



## Department of Toxic Substances Control

**Matthew Rodriguez**  
Secretary for  
Environmental Protection

Barbara A. Lee, Director  
700 Heinz Avenue  
Berkeley, California 94710-2721

**Edmund G. Brown Jr.**  
Governor

November 5, 2015

Mr. Keith S. Forman  
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Department of the Navy  
Base Realignment and Closure  
Program Management Office West  
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FORMER NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA –  
RADIOLOGICAL UNRESTRICTED RELEASE RECOMMENDATION (RURR)  
FOR BUILDING 233 SITE

Dear Mr. Forman:

The Department of Toxic Substances Control and the California Department Public Health (CDPH) concur with the conclusions and recommendations of the *Final Status Survey Report, Building 233 Site, Former Naval Station Treasure Island, San Francisco, California*, dated October 10, 2014. The Final Status Survey Report concluded that the Building 233 Site is suitable for radiological unrestricted release and recommended that no further work is required to demonstrate that the Building 233 Site meets the criterion for unrestricted release. Enclosed please find CDPH's memorandum recommending radiological unrestricted release for Buildings 233 Site.

If you have any questions, please contact me at 510-540-3840 or  
[remedios.sunga@dtsc.ca.gov](mailto:remedios.sunga@dtsc.ca.gov).

Sincerely,

Remedios V. Sunga

Brownfields and Environmental Restoration Program

Enclosure

Mr. Keith Forman  
November 5, 2015  
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cc: Email Distribution

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California Department of Public Health  
**MEMORANDUM**

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**DATE:** November 5, 2015

**TO:** Stephen Woods, *Stephen Woods*  
Department of Defense Project Manager  
Center for Environmental Health  
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Sacramento, California 95899-7377

**FROM:** Kelvin Yamada, Chief *Kelvin Yamada*  
Environmental Management Branch  
1616 Capitol Avenue, MS 7402  
Sacramento, California 95899-7377

**SUBJECT:** Radiological Unrestricted Release Recommendation for Building 233 Site, Former Naval Station Treasure Island, San Francisco, California.

Through the California Department of Toxic Substances Control (DTSC), the US Department of Navy (DON) seeks a radiological unrestricted release recommendation (RURR) from the Environmental Management Branch (EMB), California Department of Public Health (CDPH) for Building 233 Site, Former Naval Station Treasure Island, San Francisco, California.

The Building 233 Site is located in the southeastern area of former Naval Station Treasure Island (NSTI) on M avenue between 3<sup>rd</sup> and 4<sup>th</sup> streets. Building 233 was a two-story raised wood structure built on pillars in 1944. In January 1950 there was a spill of approximately 40 milligrams of radium-226 (Ra-226) powder in the first floor laboratory, Room 121. Ra-226 is the only radionuclide of concern (ROC). Nine months after the spill, decontamination of the building was completed by the Navy to standards existing at the time and Building 233 was released for continued, unrestricted use.



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However, based on the conclusions of the Treasure Island Naval Station Historical Radiological Assessment (Weston, 2006), limited radiological surveys were conducted and Ra-226 was found above background levels on building surfaces and in various drain lines (*Final Survey Report, Radiological Assessment of Building 233, NSTI, San Francisco California: Shaw, 2007*).

In 2010, radiological surveys were conducted on interior and exterior surfaces of Building 233. Ra-226 contaminated materials were removed from the building and were disposed of as low-level radioactive waste (LLRW). The building was demolished in January 2011.

In 2013, following the demolition and removal of the above-ground building structure, some of the surface and subsurface features were determined to be radiologically contaminated including the building foundation walls and piers, asphalt paving, concrete sidewalks, storm water catch basins, and storm water drain lines in the Building 233 footprint which were removed and disposed of as LLRW. As part of the remediation, all pipes directly below the building footprint were removed and disposed of as LLRW. Additionally, during site remediation activities, the following below grade structures were encountered and removed as LLRW: a concrete steam vault from the northern portion of the site footprint and a brick and concrete storm water catch basin from the southern portion of the footprint.

In July 2013 the DON conducted the final status survey. The surface area within the former Building 233 Site was divided into three (3) Class 1 survey units (SU1, SU2 and SU3) for the final status survey as described in the report cited below:

- *Final Final Status Survey Report Building 233 Site Former NSTI San Francisco, California; dated October 16, 2014.*



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All three SUs were remediated for radiological contamination and subjected to final status surveys. The DON conducted 100 percent gamma surface scan surveys and collected a total of 100 (88 systematic and 12 biased) soil samples from all three SUs. Seven soil samples collected by the DON were split in order to provide CDPH-EMB with duplicate soil samples for confirmatory testing.

Upon completion of EMB's review of submitted Multi-Agency Radiological Survey and Site Investigation Manual (MARSSIM) related documents, EMB has concluded that the final status surveys performed at this site meet the requirements under Title 17, California Code of Regulations, Section 30256 (k) [17 CCR §30256(k)]. Based on the review of all relevant documents submitted by DON and the results of the subsequent confirmatory soil sample analysis by EMB, EMB recommends radiological unrestricted release for the former Building 233 Site. Please note that this RURR is restricted to Survey Units 1, 2 and 3 as described in the document listed above.

If you need further assistance, please contact Sheetal Singh at 916-449-5661 or via email at [sheetal.singh@cdph.ca.gov](mailto:sheetal.singh@cdph.ca.gov).