



USCG Summary of DTRA Report DTRA-TR-10-26

United States Coast Guard (USCG) veterans stationed at LORAN stations (LORSTA) from 1942-2010 have expressed concern that their duties may have caused them radiogenic disease due to their occupational exposure to x-rays emanating from high voltage vacuum tubes. Approximately 10,000 USCG service members operated these units during this period of time and may have been occupationally exposed to this x-ray source. In response to this concern, the USCG Commandant (CG-1133) commissioned a technical report to review the personnel radiation exposure associated with x-rays emanating from USCG LORAN high voltage vacuum tube transmitter units that operated between 1942-2010. The Defense Threat Reduction Agency (DTRA) and the USCG jointly drafted this technical report (DTRA-TR-10-26). To assist USCG LORSTA veterans, their dependents, the Department of Veterans Affairs (VA), and the USCG, this report culminates in recommendations for the collection of veteran exposure scenario data and its subsequent use in radiation dose reconstructions in order to perform a probability of radiogenic disease causation calculation, which can lead to a VA radiogenic disease compensation decision.

Radiation measurements available for analysis included five distinct temporal collections: 1982, 1987-1988, 1993-1999, 2003, and 2008-2011. These measurements provide verification of a valid x-ray radiation exposure hazard that could potentially be a source of occupational disease. Radiation measurements in late 1993 resulted in the installation during 1995 of acrylic-lead radiation shields between the high power vacuum tubes and the outer electrical equipment cabinet doors. Subsequent radiation measurements demonstrated that the radiation shields were effective in eliminating occupational exposure from these radiation sources, if the shields were maintained between the USCG maintenance personnel and the energized power amplifier (vacuum tube).

The power amplifier tube used an applied voltage of 21,500 volts (21.5 kVp). From an x-ray protection viewpoint, a 21.5 kVp source is considered a "soft" x-ray source that is relatively easy to shield. For comparison purposes, clinical diagnostic imaging x-ray units are often operated at 100 kVp, and associated radiation shielding is typically lead sheets of approximately 1.5 mm in thickness. For USCG LORSTA tubes a lighter weight, plastic shield (commercial acrylic-lead) was sufficient. There were some other sources of potential x-ray exposure to the LORSTA workers outlined in the report. These include high voltage vacuum relays, vacuum tube switches, and arc suppressors. We have limited data associated with radiation exposures emanating from the LORSTA high voltage power amplifier tubes and even less exposure data associated with LORSTA vacuum tube switches, and other high voltage vacuum tube devices such as arc suppressors. These measurements varied over time and between individual tubes, and LORSTAs. As procedures changed, field changes were made, and radiation shielding was installed, radiation exposure scenarios evolved.

Results from the USCG's limited LORSTA personnel radiation dosimetry monitoring program in 1988 and 1994 demonstrated minimal personnel radiation exposure for monitored personnel, well within federal occupational radiation exposure limits and presumably was the rationale for not establishing a USCG LORSTA personnel radiation dosimeter program. However, LORAN transmitter maintenance and engineering experts cite anecdotal reports of LORAN technicians performing exceptional operation/maintenance procedures that entailed significant radiation exposures. Unfortunately, the limited personnel monitoring program did not address these cases, and it is not possible to create a

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Sebastian Brünink



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