

Value Delivered

- ✓ Derived concentration guideline levels established using DOE's RESRAD software
- ✓ Collection of statistically significant data ensured using QA/QC & methods
- ✓ Oversight for conducting the survey & support for interface with radiation laboratories
- ✓ Thorough documentation for site records
- ✓ Range of survey types & quality survey designs

Industry Challenge

As the U.S. nuclear fleet and other radiological facilities plant structures, systems, and components age, they become more susceptible to radiological contaminant leaks and even spills. Plant equipment degradation has raised concerns about contamination issues regarding public health, regulation, and decommissioning, so utilities must conduct radiation surveys and site investigations to demonstrate compliance with dose- or risk-based regulation.

ChemStaff Solution

As an industry leader equipped with extensive radiological survey experience, ChemStaff can meet this challenge. ChemStaff has been a leading organization in helping the industry respond to the challenge of radiological contamination and is equipped with the expertise to quickly and efficiently assist with the successful identification, planning, evaluation, and remediation of such areas. The purpose of radiation surveys and site investigations are to demonstrate compliance with dose or risk based regulation. Whether a licensee is the need is for an operating a facility, or for decommissioning, ChemStaff's practiced professionals offers the radiation safety and health physics expertise required for effectively planning, successfully implementing, and expertly evaluating environmental and facility radiological surveys. At ChemStaff, we provides the methods and analysis necessary to ensure quality results for every step of the process as described in NUREG 1575 – MARSSIM. This includes designing a radiation survey that uses the appropriate most effective measurement methods and systems, determining decision criteria, assessing survey results, and recommending a decision for any further action. We deliver comprehensive survey solutions including: All information collected can then be prepared and delivered to the NRC or other regulatory agency.

- ✓ **Survey types** – includes scoping, characterization, remediation support, and final status.
- ✓ **Survey designs** – includes which identification of the survey objectives of the survey as well as the instrument station to be used, . This includes historical assessments and the identification of likely radioactive materials, as well as recommendations for each media to be sampled medium (groundwater, surface water, subsurface soil, equipment.)
- ✓ **Survey results evaluation** – . This includes identification of radionuclides of concern, the extent of the contamination, an adjustment of initial DCGLs, and determinations of the need for additional action.

ChemStaff also prepares and submits all collected information [OR data] to the NRC or another applicable regulatory agency.

