

# ENVIRONMENTAL DOSIMETRY STANDARDIZATION to ANSI/HPS 13.37



## Value Delivered

- ✓ Ensured conformance with ANSI/HPS 13.37 – 2014 using DG-4019 methodology (Reg Guide 4.13 rev. 2)
- ✓ Site-specific baseline background dose calculations based on historical data
- ✓ Innovative yet proven methods for quarterly & annual dosimeter data analysis
- ✓ Quality assurance standards to ensure proper administration of an environmental dosimetry program

## Industry Challenge

In 2014, the American National Standards Institute (ANSI) and the Health Physics Society (HPS) published a new standard for the administration of environmental dosimetry systems, ANSI/HPS 13.37 – 2014: “Environmental Dosimetry – Criteria for System Design and Implementation.” In addition to services surrounding data analysis of dosimeter monitoring locations, ANSI/HPS 13.37 – 2014 requires the implementation of a quality assurance program. In response, the NRC issued Draft Regulatory Guide DG-4019, “Environmental Dosimetry – Performance Specifications, Testing, and Data Analysis” to establish implementation standards for nuclear power plants.

## ChemStaff Solution

ChemStaff can meet this challenge, as a leading organization in helping the industry respond to the issuance of the new regulatory requirements. The highly trained technicians at ChemStaff are equipped with the skills and understanding needed to quickly and efficiently assist in the successful upgrade of plant environmental dosimetry systems.

The purpose of environmental dosimetry programs is to quantify potential direct radiation from nuclear facilities to the surrounding environment.

At ChemStaff, we offer the effluent and health physics expertise needed to support the upgrade of dosimetry programs to the new ANSI/HPS 13.37. We deliver thorough data analysis including calculation of baseline background dose at each monitored location, effective methods for determining quarterly and annual facility related dose, and requirements for review of field dosimetry results accounting for extraneous dose. ChemStaff also provides expert support in the development of a blind-spiking program and independent annual assessments of the site’s dosimetry data. We can also offer determination of site-specific programmatic gap analysis and procedure development if requested.

