

Richard M. Treinen

Paso Robles, CA 93446 · 805-769-8001 · ricktreinen@gmail.com

EXPERIENCE

Pacific Gas & Electric Co. (Diablo Canyon Power Plant), Avila Beach, CA

Engineering Technician II (11/09 – Present)

- Setup, Calibration and Operation of thermoluminescent dosimeter (TLD) readers (Panasonic UD710A & UD7900) in an accredited NVLAP dosimetry laboratory
- Collection and organization of environmental samples supporting the Diablo Canyon Power Plant (DCPP) Radiological Environmental Monitoring Program (REMP)
- Analyzing environmental samples using gamma-ray spectroscopy
- Material testing at the DCPP warehouse utilizing an ARL optical emission spectrometer, FTIR spectroscopy, Niton x-ray fluorescence analyzer and a Rockwell hardness tester
- **Contributions include, but not limited to:**
 - Development of maps and web-based program for viewing REMP and EP information in Google Earth and ArcGIS Explorer mapping software
 - Revision and improvements to the Dosimetry Laboratory's NVLAP Management System Cross-reference Document (NIST Handbook 150 & 150-4)
 - Creation of spreadsheet based data entry and measurement calculation system for the calibration of the Sheppard irradiators, improving the speed and accuracy of the previous hand-calculated methods
 - Research, testing and documenting the development of the LabSOCS gamma spectroscopy system for use at the Off-site Emergency Lab
 - Creation of a spreadsheet based dose algorithm simulation that replicates the high-dose algorithm used by the dosimetry lab software

Pacific Gas & Electric Co. (Diablo Canyon Power Plant), Avila Beach, CA

Nuclear Security Officer (NSO) (9/02 – 10/09)

- Qualified radiation worker
- Charged with maintaining accountability and safety of plant employees
- Trained and certified per Nuclear Regulatory Commission (NRC) requirements as an armed responder with the primary purpose of defending a nuclear power plant from an attack that would result in a radiological release
- Support of the DCPP Emergency Plan through participation in security drills
- Graduated from NSO academy with highest awards in scholastic achievement and marksmanship