Nathan Schulz

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SUMMARY

Health Physicist 2 and program manager with experience building and running site-level safety, training, equipment, work authorization, documentation, and reporting programs in DOE-regulated accelerator and nuclear environments. Scope spans compliance program operations, cross-functional project execution, risk-based controls, leadership reporting, and AI-assisted workflow development.

SKILLS

- Compliance program operations, program ownership, workflow design, control implementation, audit-ready documentation, renewal cycles, corrective-action follow-through
- Training and communications, contractor onboarding, regulated work authorization, field verification, risk-based controls, stakeholder coordination, leadership reporting
- Excel dashboards, SharePoint, Power Automate, AI-assisted reporting workflows, metrics tracking, process improvement

EXPERIENCE

SLAC National Accelerator Laboratory — Menlo Park, CA November 2022 – Present

Health Physicist 2

- Program manager/owner for Radiation Generating Devices (RGDs), Radiological Training, Radiological Work Permits (RWPs), and Search & Survey programs in a DOE-regulated accelerator environment.
- Own site RWP program operations, maintaining over 60 permits under continuous quarterly renewal; review, close out, approve, and issue new-cycle RWPs while personally supporting higher-complexity or job-specific permits from planning through closeout/retirement.
- Oversee compliance for over 100 RGDs, including roughly 85 active devices at any time and a changing inventory of density gauges, radiography devices, and other RGDs requiring authorization, survey scheduling, training verification, documentation, leak-test/operator tracking, and field readiness.
- Built and deployed SharePoint/Power Automate RGD compliance tracker for over 100 RGD records, structuring reminder logic, dashboard views, and compliance tracking for leak tests, operator training expirations, and regulatory status.
- Radiation Protection project lead for CUIR (Critical Utilities Infrastructure Revitalization), coordinating multi-year readiness, dose forecasting, staffing/time/cost estimates, contractor training requirements, dosimeter kiosk setup, field communications, and four-week lookahead planning.
- Streamlined CUIR compliance workflows by enabling kiosk-based dosimeter checkout and digital RWP acknowledgement, reducing sign-in/out friction and aligning workers to a simplified job-type RWP structure while preserving required controls.
- Built and deployed CUIR dose and roof-survey dashboard used in daily leadership meetings, using AI-supported development to improve formula logic, reporting structure, and workflow design; converted dosimeter, survey, control-measurement, outlier, and work-location data into daily/weekly compliance metrics across 1,000+ personnel-day entries and 60+ active project days.
- Presented CUIR dose forecasts, work controls, training plans, and project readiness to ALARA Committee stakeholders and department leadership, supporting approval for both mockup and full-scale project work.
- Maintains radiation worker training compliance for approximately 750 SLAC staff site-wide; trained and onboarded roughly 120 workers for the CUIR project, delivering multiple RWT I/II, Source Custodian, RGD, and job-specific training sessions weekly during peak periods.

- Modernized Search & Survey and Area HP workflows by digitizing a neglected paper database into a SharePoint/Excel tracker, reporting completion status to leadership, reviewing accelerator maintenance data, and approving recurring biweekly survey cycles for sectors 0–10 and 20–30 plus daily CUIR roof surveys when project work is active.

Naval Nuclear Laboratories — Idaho Falls, ID August 2021 – September 2022
Radiation Health Physicist

- Performed dose investigation reports, audits, and peer reviews.
- Supported environmental radiation level monitoring, medical qualification checks, whole-body counting, gamma spectroscopy analysis, and dose estimation calculations.
- Managed implementation of skin dose calculation software (Varskin+) across Naval Nuclear Laboratory Radiation Health departments; also executed monthly TLD dosimetry monitoring with Harshaw 8800 TLD Reader.
- Acquired certifications in Radiation Work, Thermoluminescent Detection, Source Handling, and Emergency Response (Health Physics Responder and Medical Coordinator).

Smith & Burgess Process Safety Engineering — Houston, TX May – August 2019
Engineering Intern

- Analyzed P&IDs, equipment data sheets, equipment drawings, vendor diagrams, and process data for natural gas process safety engineering projects.
- Completed facility equipment calculations, evaluated overpressure scenarios, created process flow diagrams, and scribed for Process Hazard Analyses using PHA Pro.

EDUCATION

Texas A&M University — College Station, TX 2016 – 2021
B.S. Nuclear Engineering | Minors: Mathematics and Radiological Health Engineering