

Resume for Kurt T. Schaefer

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POSITIONS:

Principal (Nuclear Plant) Licensing Engineer, Nuclear Plant Licensing Instructor/Trainer, Nuclear Project Licensing Manager, or Lead QA Auditor/Engineer

EDUCATION:

BS Nuclear Engineering - University of Arizona

KNOWLEDGE & SKILL SUMMARY:

Nuclear and fusion plant licensing; plant site determination criteria; extensive experience with the NRC; 9 yrs COL Applications, 10 CFR 52 and ITAAC; engineering and licensing processes/procedures; Licensing Topical Report (LTR) generation; 10 CFR 50 Appendix B and ISO-9001 QA requirements; 10 CFR 21; operability evaluations; PSAR, FSAR and Design Control Document generation, revisions and upgrades; 10 CFR 50, 10 CFR 50.59 and 10 CFR 50.92 requirements; all types of power uprates; BWR core design; nuclear plant systems; organization-project management; communication and presentation skills; development and providing training services; procedure writing; criticality safety; customer relations; technical writing; MS Office; licensing process development; FLEX.

ADVANCED & CORPORATE TRAINING:

GE Engineering Operating Procedures, Nuclear Quality Assurance Lead Auditor, Nuclear Utility Procurement Training, Classroom Instructor (INPO) Certification, Effective Presentation, Project Leadership, Technical Project Engineer, Effective Negotiating Skills, Change Control, Quality Assurance, Design Verification, Kepner Tregoe, BWR/6 Site Simulator Training, BWR Process Computer, Technical Writing, Numerous other GE corporate courses, MS Office.

NUCLEAR SPECIFIC EXPERIENCE: (Total of 43 years)

- TAE Technologies – 06/2016 through 10/2018.
Regulatory Consultant:
Determined the Federal and multi-state regulatory requirements for TAE test plant and fusion power plant. Wrote (a) power plant siting guide with criteria and checklist, (b) style guide for technical and licensing reports, (c) ISO-9001 Quality Assurance Manuals and other QA procedures for power plant designing and medical devices, (e) topical report demonstrating that NRC regulations are not applicable to a TAE fusion based power plant.
- ENERCON Contractor to Emirates Nuclear Energy Corporation – 11/2014 through 06/2016.
Principal (Nuclear Plant) Licensing Engineer:
Contract assignment for reviewing the Barakah NPP commitments, promises, ENEC comments and vendor responses, Departure Reports, SAR Change Notices and conditional acceptance items,

generating Body of Evidence forms, to assure completeness of the FSAR prior to its submittal to the FANR (UAE) regulatory authority. Tracking the PSAR RAIs and their responses, to support responding of the FSAR RAIs. Generation and review of FSAR RAI responses. Provide RAI response training to KEPCO engineers.

- System One Contractor to Westinghouse in San Jose, CA office – 05/2010 through 10/2014.

Sr. (Nuclear Plant) Licensing Engineer:

Licensing lead for Quad Cities and Dresden MUR power uprates, generated EPU SAR templates for BWR3/4, 5, 6 and ABWRs, managed the Toshiba ABWR Design Control Document validation project, providing licensing for MUR and extended power uprates, and AP1000 ISG-11 evaluations, 10 CFR 52 COL departure evaluations, Design Control Document Tier 1 (ITAAC) and Tier 2 changes, COL UFSAR changes, COL license amendment requests, Perry FLEX project report.

- ENERCON Contractor to Xcel Energy at Monticello nuclear plant – 11/2009 through 04/2010.

Sr. (Nuclear Plant) Licensing Engineer:

Short – term contract licensing the Monticello Extended Power Uprate; generating of License Amendment Requests and changes, responses to NRC Requests for Additional Information, and a white paper on the High Energy Line Break Licensing Basis.

- Myriad Technical Contractor at Fitzpatrick nuclear plant – 12/2008 through 05/2009.

Principal (Nuclear Plant) Licensing Engineer:

Six month contract, generating of Technical Specifications changes, Technical Requirements Manual changes, license amendment requests, bi-annual FSAR update, 10 CFR 50.72 & 50.73 reportability determinations, Licensee Event Reports, Condition Reports, Corrective Actions, Apparent Cause Evaluations, and Root Cause Evaluations, and plant performance indicator evaluations.

- Panlyon Technologies Contractor to GE Nuclear – 01/2004 through 09/2008.

Principal (Nuclear Plant) Licensing Engineer:

- Authored the ESBWR licensing strategy white paper.
- Developed the process, wrote the procedure and trained the engineers for the production of the ESBWR Design Control Document (DCD).
- ESBWR Licensing technical leader for the production and updating of the ESBWR DCD Tier 1 (ITAAC), Tier 2, Technical Specifications and plant-specific Combined Operating License (COLA) applications, which includes process development, guideline production and program management.
- Authored the reports for Classification of “ESBWR Abnormal Events and Determination of Their Safety Analysis Acceptance Criteria,” “Ultrasonic Flow Meter,” and “Regulatory Relaxation For The Post Accident SRV Position Indication System.”
- Produced and provided inputs to numerous 50.59, 50.92 and technical safety evaluations, and BWROG report “Improved BPWS Control Rod Insertion Process.”

- Adecco Technical Contractor to GE Nuclear – 07/2002 through 12/2003.

Principal (Nuclear Plant) Licensing Engineer:

- Managed the production of the EPU and MELLLA+ licensing reports for the Browns Ferry Unit 1 restart.
- Developed the process for generating the Lungmen FSAR PRA.

- Electric Power Research Institute (EPRI) – 03/2001 through 07/2002

Manager, QA Engineering:

- Lead quality assurance (QA) auditor for internal and vendor audits.
- Performed other ISO-9001 and 10 CFR 50 App. B QA functions; e.g., QA procedure generation and updates, 10 CFR 21 procedure update, writing and the follow-up of the corrective actions, root cause evaluations and the annual QA trending report.

- TAD & Adecco Contractor GE Nuclear – 02/1997 through 03/2001.

Principal (Nuclear Plant) Licensing Engineer:

- Authored the LTR, "Original Safe Shutdown Paths For The BWR."
- Managed the production of the Quad Cities and Dresden EPU licensing reports, and the Browns Ferry 2/3, LaSalle and River Bend Power Uprate licensing reports.
- Technical lead for the Fermi UFSAR Validation Project, and authored the "Procedure for Performing UFSAR Validations for Fermi 2."
- Provided licensing training to ROC-AEC and Taipower Lungmen engineers.

- General Electric Nuclear Energy – 10/1975 through 10/1995.

Sr. (Nuclear Plant) Licensing Engineer:

- Authored various procedures for performing 10 CFR 50.59 licensing evaluations.
- Plant Licensing Engineer for the SBWR.
- Developed NPP safety bases criteria, to be in U(F)SAR reductions and enhancements, commitment reductions and 10 CFR 50.54(f) programs.
- Authored "Criteria For Deleting Non-safety Basis NRC Commitments and USAR Information", and managed the Limerick UFSAR Reduction Pilot Program.
- Produced the generic content and text for BWR power uprate licensing reports, and managed the production of the licensing reports, Tech Spec changes and 10 CFR 50.92 analyses for the Fermi 2, Fitzpatrick, Susquehanna, WNP-2, Cofrentes, Hatch, Peach Bottom and Limerick power uprates.
- Performed safety classification for CNV, Cooper, Hatch, and Laguna Verde.
- GE licensing lead on performing 10 CFR 50.59 Applicability Reviews and Safety Evaluations. Authored 10 CFR 50.59 procedures for NMP-2, River Bend, Laguna Verde, GETSCO Mexico, and GE. Authored the LTRs, "Criteria for Exempting Nonsafety-Related Change Proposals From 10 CFR 50.59 Evaluations," and "Guideline Procedure for Performing 10 CFR 50.59 Applicability Reviews and Safety Evaluations."

INPO Certified Instructor:

- Authored and taught GE training courses on Performing 10 CFR 50.59 Safety Evaluations, Reactor Core Management, Licensing Perspectives of Technical Specifications, Plant Licensing Bases, and Safety Classification.
- Specifically, taught classes for River Bend, NMP, Laguna Verde, La Salle, Fitzpatrick, Cooper, the Mexican NRC, Cofrentes, Santa Maria de Garoña, GE Mexico, KKL and Caorso.

Sr. (Nuclear Plant) Licensing Engineer for international projects:

- Directly responsible for all licensing activities for all NPP's in Spain and Mexico.
- Managed licensing activities and interfaces between GE Projects, GE Services, GE Engineering, AE, utility and regulators.
- Managed the production of the CN Valdecaballeros 1 & 2 NPP FSAR for Spain.
- Managed the NSSS (GE scope) support in the licensing of the Cofrentes NPP.

- Managed the production of the Cofrentes Tech Specs to FSAR, SER, and design documents cross reference matrices.

Supported licensing activities for other foreign and domestic NPP's.

Sr. Licensing Engineer and Licensing Project Manager for domestic NPP's:

- Managed the production of the GE inputs to the NMP-2 NPP FSAR.
- Produced of the NMP-2, Hope Creek, Limerick Tech Specs vs. SER, FSAR, GE documents and GE drawings consistency reviews, and produced the respective Technical Specifications cross reference matrices.
- Supported the licensing of numerous domestic NPP's, including a six week assignment in the Niagara Mohawk home office.

Reactor Core Management Engineer:

- Performed reactor core design and operating engineering for various operating BWR's, and directly responsible for core design and management for Millstone and Pilgrim NPP's.
- Designed the core and aided the operations of the first control cell core NPP.

Site Criticality Safety Specialist and License Compliance Engineer at the Vallecitos Nuclear Center:

- Performed or verified all criticality analyses on U, Pu and U+Pu systems in both homogeneous and heterogeneous forms.
- Responsible for licensing activities and all on site radioactive material authorizations.

- BECHTEL, Inc. – 09/1973 through 08/1975

Project Criticality Safety Engineer:

- Criticality safety analyst during the design of a nuclear fuel reprocessing plant. Performed or verified safety analyses for all U, Pu and U+Pu systems in both homogeneous and heterogeneous forms.

OTHER: 08/1997 to present

Owner of A&K Nuclear Licensing, providing licensing and SAR training, and writing various licensing, QA, Writers Guide and plant siting procedures. Authored:

1. Licensing Training Manual, "Detailed Instructions For Performing Nuclear Power Plant Licensing Evaluations, Generic BWR Version."
2. "USAR Optimization Criteria & Process."
3. "Safety Bases Criteria and Their Usage."
4. "Generic Procedure for Generating License Amendment Requests Including 10 CFR 50.92 SHC Determinations and Emergency Amendment Requests."
5. "Generic Nuclear Power Plant Siting Guidance."
6. "Prototypical Publication and Writers Guide for Highly Regulated Industries."
7. "Proto-Typical Safety Analysis Report Writers Guide."
8. "Generic Radiation Safety Design Specification."
9. "Quality Assurance Manual" (Generic Prototypical Procedure).
10. "Project Quality Plans," (Generic Prototypical Procedure).
11. "Generic Design Verification, Non-Software."