
LONGENECKER and ASSOCIATES

Bill Higgins

DETAILED EXPERIENCE

Experience: 1983 – Present San Onofre Nuclear Generating Station (SONGS)

2003 – Present

- Developing single nuclear Software Quality Assurance program for nuclear site from the six existing separate software control programs, developed over the 30 year history of the site
- Developing site team from multiple software control program divisions to integrate new program
- Developing indoctrination to industry and regulatory codes best practices, guidelines for site development team and site management
- Developed / drove approval of the first single Software Quality Assurance policy nuclear procedure for SONGS nuclear plant
- Participated/developed/reviewed industry standards documents:
 - Guideline for Policy for SQA programs in the Nuclear Industry
 - Guideline for Implementing SQA Policy in the Nuclear Industryfor national industry organization, the Nuclear Information Technology Strategic Leadership (NITSL, formerly Nuclear Utility Software Management Group -- NUSMG) as member of its Software Quality Assurance Standing Committee (Document drafts AP-9### and AP-9###-NITSL-001, final formal numbering to be issued mid-2005)
- Focal point interface for external (inter-company) audits for nuclear Information Technology department

1999 – 2003

- Implemented/ Innovated/ Improved Software Quality Assurance audit function for IT group against implemented software development program evaluated at Software Engineering Institute / Capability Maturity Model (SEI/CMM) Level 2 (Evaluation first assessed in 1999. Note: First utility IT department ever to achieve CMM Level 2)
- Audited processes and products implementing SQA mission:
Software development will be:
 - On time
 - On budget
 - Software performs according to specification
 - Specification satisfies business practice needs
- Specified / Innovated / Implemented automated SQA Quality Assurance Reporting tool (SQAWeb – proprietary to SCE, developed in-house) throughout site IT department. Implementation became standard for entire company IT department.
- Maintained/ upgraded SQA work instructions for on-going compatibility with all changes in company, industry, and regulatory practices
- Audited / reported non-software development departmental-specific impact items to department manager regarding personnel, resource allocation, and quality process improvement

1992 – 1999

- Database administrator for site nuclear procedures for Nuclear Document Management System (NDMS -- proprietary SCE developed software)

- Database systems analyst/client representative for software development, software enhancement of production site document management system NDMS
- Developed and instructed class, Subject Matter Expert (SME) training class for practitioners of NDMS
- Systems Analyst / Client liaison for development of site document management system NDMS. Note: This in-house developed software was recognized in Washington, DC, inducted into the Smithsonian Institution in 1999, the year of development/implementation in production at nuclear SONGS nuclear site.
- Database administrator for Verity Search engine in production at SONGS nuclear site

1989 – 1992

- Performed cost / benefit analysis financial packages / presented packages to the Plant Management Review Committee (PMRC) for all capital plant expenditures over \$50,000
- Mentored practitioners, engineers, site management in the discipline of cost / benefit analysis in accordance with SCE Comptrollers Department practices and standards

1984 – 1989

- Mentored budget analysts in incorporating the PC XT's into the manual budget analyst business process
- Developed software driven menu interface to new budget software
- Developed training materials and mentored practitioners with hands-on software and technical support

1983 – 1984

- Administered plant safety document, Proposed Facility Change (PFC) packages through approval process in support of Design Change Package (DCP) process for modifying permanent configuration records and drawings for SONGS nuclear plant

EDUCATION

2001 – (On-going): Certified Quality Auditor, American Society for Quality (ASQ; Recertify 2007)

1996 - B.S.B.A. Bachelor of Science in Business Administration, University of Phoenix

1985 - A. A, English Literature, Saddleback College

1968 - 1971 - Undergraduate Study in English Education, University of Illinois at Urbana-Champaign

PROFESSIONAL ASSOCIATIONS

2004 – Present: Member of Nuclear Information Technology Strategic Leadership (NITSL) Standing Committee for Software Quality Assurance for nuclear industry