

LONGENECKER and ASSOCIATES

EXPERIENCE SUMMARIES FOR KEY PERSONNEL

THOMAS A. TOMASZEWSKI

EXPERIENCE SUMMARY

Thirty-nine years of combined experience in safety management, quality, independent assessment, risk analysis, root cause analysis, engineering, operations support, and project management in the nuclear industry. Experience includes creating basic quality, risk and audit and assessment policies for the Yucca Mountain Project, performing hazards assessments and accident analysis, providing USQ determinations, and preparing and maintaining nuclear safety risk analyses and emergency preparedness documentation, in support of day to day operations. Mr. Tomaszewski has conducted management and operational assessments, readiness reviews and close out of findings on a range of nuclear energy projects.

Mr. Tomaszewski is familiar with the level of rigor associated with regulatory compliance and DOE Orders and Standards. He produced original text for DSA and supporting documents, and assisted Sandia with the transition to Lead Laboratory concept for the Yucca Mountain Project. His experience includes Category 2 and 3 facilities, Hanford Tank Farms, the FFTF nuclear test reactor, WRAP waste management facility, commercial power reactors, and a DOD critical mission facility. Project and construction management experience includes engineering and bargaining unit personnel. Managed the design and fabrication of radioactive vitrification jumpers. Fabricated and installed equipment for nuclear service.

Mr. Tomaszewski has a talent for rescuing troubled projects while producing cost savings. He has a strong commitment to quality, strong attention to detail, and initiative to resolve problems while working effectively with company and customer personnel. Excellent writing and communication skills. Former Q and DOD-Secret clearances that can be reinstated. U.S. citizen. BS and MBA degrees.

DETAILED EXPERIENCE

Longenecker & Associates – 2006-present Supported the Yucca Mountain Project in creating basic quality, risk and audit and assessment policies to support the newly formed Lead Laboratory QA Organization. Provided Qualified Supplier Evaluations and Programmatic and Scientific Procedure Reviews to implement SNL-LL QAPD, DOE O 414.1C, and OCRWM QARD DOE/RW-0333P requirements. Identified weaknesses in and made recommendations to Lead Laboratory's Corporate QA, Management, and Business Programs. Coordinated development then verified 1300+ elements of the Lead Lab QA program to OCRWM QARD DOE/RW-0333P requirements.

Weirich and Associates and Mid-Columbia Engineering, contracted to CH2MHILL, Hanford Inc., Richland, WA: Nuclear Safety Engineer (July 2002 through June 2005) Very familiar with Hanford Tank Farms and 222-S Laboratory Documented Safety Analysis, Technical Safety Requirements, and supporting Technical Basis documents and their amendment process. Drafted technically sound revisions in support of day to day operations. Prepared and developed specific Tank Farms DSA accident scenarios involving radiological and toxicological consequences. Prepared analytical calculations and wrote final DSA and Technical Basis text to 10 CFR 830, DOE-HNBK-3010-94, DOE-STD-3009 criteria including supporting the final preparation of programmatic chapters. Currently incorporating criteria of DOE-STD-1186. Prepared Tank Farms DSA and TSR Annual Updates and USQ Annual Reports. Prepared a draft tank Farms FSAR Annual Update and its subsequent 10-CFR exemption. Provided

extensive change management control and resolutions outstanding items. Interfaced directly with DOE ORP and provided resolution to DOE and Defense Nuclear Facility Safety Board (DNFSB) lines of inquiry. Supported operations by providing major revision to the Tank Farms Emergency Preparedness Hazards Assessment and Emergency Action Levels to bring it into compliance with the DSA. Provided technical review of the tank bump accident including directing subcontractor and consultant's technical staff. Established licensing strategy to eliminate tank bump and transportation accidents. Peer reviewed others work, including the Interim Disposal Facility PDSA. USQ qualified. All tasks completed on or ahead of schedule.

Washington State University, Richland, WA: MBA Graduate Program, (April 2001- May 2003)

Fluor Hanford Company, Richland, WA: Senior Principal Engineer, WRAP Facility (December 1996-April 2001) Responsible for preparation of Safety Basis documentation and amendments, two FSAR annual updates to DOE Order 5480.23, DOE comment resolution, and extensive change management control. Developed and maintained safety basis configuration management tools and processes. Mentored management and professional staff in support of operations. Developed strategies and methods to analyze toxicological accidents. Responsible for facility radiological waste acceptance to DOE STD 1027-92. Prepared USQ determinations in support of day to day operations including specialized work which increased operation's production capability. Performed ISMS, ORR, and management assessments.

Westinghouse Hanford Company, Richland, WA: Senior Principal Engineer, Packaging Engineering, (December 1994 – December 1996) Procured impact limiter for radioisotope thermoelectric generator (RTG) packaging system for the Cassini Space Mission and provided supporting analytical calculations. Produced, with PNNL staff, an animated radiation profile to minimize Cape Canaveral operation's workers' radiological exposure during day to day handling of the RTG packaging system.

Westinghouse Hanford Company, Richland, WA: Senior Principal Engineer, Central Engineering (March 1991- December 1994) Managed a \$13.4 million, radioactive waste vitrification jumper design, fabrication, and delivery contract to West Valley New York. Responsible for project control, funding, schedule, work breakdown structure, cost coding, quality, control of work, and contract compliance. Responsible for 23 FTE engineering, design, craft, and QC personnel. Provided all technical direction, technical contract correspondence, non-conformance report resolution, cost and project control, manpower allocation, budgeting, scheduling, and reports to internal management and the customer. Completed project on time and within budget in support of customer's construction schedule and turnover to operations. Returned over \$600K. Eliminated unit-cost overruns. Integrated fabrication and delivery to the customer's construction schedule.

Westinghouse Hanford Company, Richland, WA: Senior Principal Engineer, SP-100 Space Power Generator (Fall 1989- March 1991) Responsible for fabrication, assembly, and testing of a ground-based liquid metal cooled space reactor heat removal system.

Westinghouse Hanford Company, Richland, WA: Senior Engineer, Fast Flux Test Facility (March 1983-Fall 1989) Responsible for management of all Davis-Beacon construction-craft across all craft disciplines. Responsible for cost, schedule, work quality, and compliance with engineering, and reactor operating condition requirements. Supported the daily operations schedule by adjusting work locales as necessary. Recognized for completing work on time and within budget. Cut, welded, and worked on 400-degree sodium and NaK filled piping. Resurfaced the containment dome utilizing unique repelling techniques.

Bechtel, Inc., Senior Mechanical Field Engineer, and Contract engineer with Butler Inc and Piping Design Services, Richland, WA: WNP-2 Nuclear Power Reactor, (November 1980-

March 1983) Responsible for small bore piping, reactor wet-well inspection, and an 80 craftsmen construction schedule and associated project controls. Supervised engineers, schedulers, and QC inspectors. Identified and eliminated 20,000 man-hours of non-essential work thereby ensuring success of budgeted work scope.

Westinghouse Hanford Company, Richland, WA: Senior Engineer, Fast Flux Test Facility (October 1976-November 1980) Responsible for the project control and construction management oversight of thermal insulation of reactor components and piping prior to turnover to operations.

Westinghouse Advanced Reactors Division, Waltz Mills, PA: Advanced Engineer, Engineering Dept (November 1971- October 1976) Responsible for the design, fabrication, cost, and delivery of the Fast Flux Test Facility nuclear reactor pump and heat exchanger overflow vessels. Performed structural analysis of valves and piping.

Westinghouse Astronuclear Laboratory, Pittsburgh, PA: Engineer, Engineering Dept (February 1969-November 1971) Structural analyst for NERVA Nuclear Propulsion Rocket. Performed probabilistic risk assessments and wrote an analytical probability code using Monte Carlo sampling techniques. DOD Secret clearance.

Rockwell International, Columbus OH and Los Angeles CA: Associate Engineer, Flight Dynamics Group. (June 1968- February 1969) Performed missile-wing aerodynamic interference studies and wind tunnel testing of U.S. Navy fighter aircraft. DOD clearance.

EDUCATION

M.B.A. Finance, Washington State University, 2003.

B.S. Aerospace, Penn State University, 1968.

Other graduate course work.

REFERENCES

Ron Stevens, Manager Quality Assurance, Sandia National Laboratory, Lead Laboratory, Yucca Mountain Project, (702) 295-5007 (formerly Director, CH2M HILL Nuclear Safety and Licensing, Hanford Washington Tank Farms).

Muhammad Islam, Senior Principal Engineer, CH2M HILL Nuclear Safety and Licensing, retired. (509) 375-3182.

Art Stithem, Senior Safety Engineer, Pacific Northwest National Laboratory, Facility Safety and Licensing, (509) 376-9695.