

# LONGENECKER and ASSOCIATES

## EXPERIENCE SUMMARIES FOR KEY PERSONNEL

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### Timothy Greager

#### EXPERIENCE SUMMARY:

Mr. Greager has more than 25 years experience managing complex projects in the nuclear industry. Key areas of expertise include nuclear quality assurance, audits and assessments, regulatory compliance, project management, engineering, and waste management. Mr. Greager has experience in implementing and coordinating quality programs, assessing contractor QA programs and management systems, preparing inspection and/or assessment reports, and identification of weaknesses and deficiencies. Mr. Greager has experience in implementing both NQA-1 and the OCRWM QARD DOE/RW-033.

#### ACCOMPLISHMENTS:

- Developed Quality Assurance Project Plans/Documents for ASME NQA-1 Transuranic Waste Program
- Prepared Acceptable Knowledge (AK) summaries, waste stream profiles, and developed AK strategy for Remote Handled Transuranic Waste and Spent Nuclear Fuel complying with ASME NQA-1 and DOE/RW-0333P requirements.
- Over 25 years of experience managing projects in design, construction, plant operations, waste management, and environmental compliance arenas.
- Assessed waste management, packaging/transportation, and environmental protection requirements; reviewed quality records and successfully implemented solutions to correct deficiencies.
- Analyzed and updated key transportation program requirements, reviewed transportation records, and developed strategy to implement DOE Order 460.1B.
- Researched and analyzed Hanford Site infrastructure upgrades in the Information Technology arena.
- Streamlined CH2M HILL waste management program by consolidating requirements and implementing documents resulting in improved operating efficiency.
- Provided project management for characterization and certification elements of the Hanford Site Transuranic Waste Program.

#### RELEVANT EXPERIENCE:

##### Quality Assurance

(7/1996 – 1/2003) – Developed the Quality Assurance Project Plan and the Transuranic Certification Plan for the Hanford Site Transuranic (TRU) Waste Program. These were the initial program documents and were the basis for the technical as well as quality assurance aspects of the TRU program. The TRU program Quality Assurance was based on the WIPP Quality Assurance Program Document, which complied with ASME NQA-1. The following are my specific quality assurance activities:

- Implementation of 10 CFR 830, DOE Order 414.1C, ASME NQA-1 (applicable criteria and supplements), DOE/RW-0333P (applicable criteria and supplements);
- Development of an ASME NQA-1 records management system, maintaining quality records in fire-proof safes, and managing electronic records;

- Development of a TRU program training system that provided automated training and tracking of over 100 employees;
- Development and maintenance of a procurement system specific to the TRU program as well as electronic tracking of material/service requisitions;
- Coordination of supplier evaluations based on ASME NQA-1 criteria (18 criteria plus supplements as applicable) – Defined the applicable criteria;
- Coordinated procurement of goods and services to ensure suppliers had been evaluated against appropriate ASME NQA-1 criteria and that goods were purchased as well as receipt inspected in accordance with ASME NQA-1 (Control of Purchased Items and Services);
- Developed inspection plans/reports and coordinated corrective actions as needed to resolve deficiencies;
- Development of QA procedures related to training, procurement, records management, document control, inspection and test control, calibration, corrective action management, assessments, and software QA;
- Lead Corrective Action Management sessions on technical and quality related deficiencies;
- Development and performance of the Graded Approach procedure for the TRU program;
- Development of Measurement & Test Equipment (M&TE) calibration tracking system;
- Review of technical data packages to ensure data were accurate and the appropriate quality had been applied;
- Coordination of software QA systems, including procedures;
- Development and maintenance of the Quality Assurance Program Compliance Matrix.

#### Assessments/Audits

- (6/2004 – 10/2004 & 5/2006 – 9/2006) Waste Management Requirements Assessments  
Assessed implementation of CH2M HILL waste management requirements based on the Standards/Requirements Identification Document (DOE O 435.1 and Washington Administrative Code). Prior to initiating the assessments, an assessment plan was developed, reviewed and approved by CH2M HILL. The Phase 1 assessment includes researching the procedures and applicable implementing documents. The Phase 2 assessment included researching records, interviewing personnel, and directly observing the implementing mechanisms to ensure the requirements were effectively implemented. Delivered the Phase 2 assessment report to CH2M HILL in October, 2004 with a follow-up delivered in September 2006. Corrective actions were completed following the assessment using the CH2M HILL Problem Evaluation Report format.
- (12/2004 – 4/2005 & 5/2006 – 9/2006) Packaging and Transportation Requirements Assessments  
Assessed implementation of CH2M HILL packaging and transportation requirements based on the Standards/Requirements Identification Document (49 CFR and Dangerous Goods Regulations). Prior to initiating the assessments, an assessment plan was developed, reviewed and approved by CH2M HILL. The Phase 1 assessment includes researching the procedures and applicable implementing documents. The Phase 2 assessment included researching records, interviewing personnel, and directly observing the implementing mechanisms to ensure the requirements were effectively implemented. Delivered the Phase 2 assessment report to CH2M HILL in April, 2004 with a follow-up delivered in September 2006. Corrective actions were completed during the assessment.

- (2/2005 – 6/2005 & 8/2006 – 11/2006) Environmental Protection Requirements Assessments  
Assessed implementation of CH2M HILL environmental protection requirements based on the Standards/Requirements Identification Document (Washington Administrative Code, 40 CFR, DOE O 450.1). Prior to initiating the assessments, an assessment plan was developed, reviewed and approved by CH2M HILL. The Phase 1 assessment includes researching the procedures and applicable implementing documents. The Phase 2 assessment included researching records, interviewing personnel, and directly observing the implementing mechanisms to ensure the requirements were effectively implemented. Delivered the Phase 2 assessment report to CH2M HILL in June, 2005 with a follow-up delivered in November 2006. Corrective actions were completed during the assessment.
- (12/2004 – 3/2005) Standards/Requirements Identification Document (S/RID) process assessment  
Assessed the effectiveness of the overall S/RID process based on the requirements and direction from TFC-BSM-AD-C-07, “Standards/ Requirements Identification Document Process”. This assessment included an analysis of the process incorporating records reviews, personnel interviews, and observations of implementation throughout CH2M HILL.
- (8/2006 – 9/2006) Transportation Safety Document Implementation Assessment  
Assessed CH2M HILL implementation of the Hanford Site Transportation Safety Document. Prior to initiating the assessments, an assessment plan was developed, reviewed and approved by CH2M HILL. The assessment included a review of implementing procedures, review of transportation records, and observation of a radioactive shipment. This observation included interviews with certified waste shippers, the driver, and the shipper’s management. Delivered the assessment report to CH2M HILL in September, 2006. Corrective actions were completed during the assessment.
- 2/1999; 3/2000; 4/2001; 3/2002) TRU Records Management Assessments  
Prepared audit checklists, scheduled audit interviews with TRU records personnel, and performed records research. The assessment included a review of the records storage area and the process for moving quality records from interim into long-term storage. Conducted the assessments, prepared the assessment reports, and followed-up on corrective actions. These were internal assessments performed in accordance with the established assessment schedule that was published at the beginning of each fiscal year.
- (3/1999; 5/2000; 4/2001; 4/2002) TRU Procurement System Assessments  
Prepared audit checklists, scheduled audit interviews with procurement and receipt inspection personnel, and performed procurement records research (initial purchase requisition through final inspection report) . Conducted the assessments, prepared the assessment reports, and followed-up on corrective actions. These were internal assessments performed in accordance with the established assessment schedule that was published at the beginning of each fiscal year.
- (5/1999; 6/2000; 5/2001; 5/2002) WIPP Audit preparation – pre-assessments  
Prepared audit checklists, scheduled audit interviews, and performed records research. Conducted the assessments, prepared the assessment reports, and followed-up on corrective actions in order to prepare for the WIPP ASME NQA-1 quality assurance audits. These internal assessments were provided to the WIPP audit team as supplemental data.

**EDUCATION:**

B.S. Construction Management -Washington State University, 1980  
Masters of Business Administration - Nova Southeast University, 1989

**CERTIFICATIONS:**

NQA-1 Lead Auditor (Pending)

**REFERENCES:**

Grady A. Willingham, CH2M HILL, (509) 372-8197, [Grady\\_A\\_Willingham@rl.gov](mailto:Grady_A_Willingham@rl.gov)

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