

#### MARK C. BACA

#### **QUALIFICATIONS**

Led federal organizations for nuclear weapon and related programs at the Senior Executive Service level since 1998. I have over 30 years of federal technical management experience with three national laboratories, multiple production contractors, military services, Department of Defense, other US government agencies and foreign governments.

Managed the NNSA quality assurance, nuclear explosive safety, stockpile surveillance, Type B packaging certification, and emergency response programs across three national laboratories and five production plants to ensure design and production of safe, secure and reliable nuclear weapon components, subsystems, and systems.

Served as a Senior Energy Official for DOE's Accident Response Group (ARG) and led ARG on many national and international nuclear weapon recovery exercises.

Fully qualified as a Senior Technical Safety Manager under DOE's technical qualification program.

#### **DETAILED EXPERIENCE**

Sr. Consultant, Longenecker & Associates, Inc. May 2014 – Present

### **Consultant to SHINE Medical Technologies**

#### February 2011 – Present

I am developing quality assurance policy, procedures, and implementing oversight, in support of the design and construction of a new commercial facility to produce Mo-99 isotopes for medical use.

## Participated in an assessment of CMRR QA processes August 2011

Consultant to Babcock & Wilcox May 2009 – February 2012

Provided consultation on strategies for capturing DOE/NNSA contracts.

### **DOE/NNSA EXPERIENCE**

Retired from DOE/NNSA at the Senior Executive Level January 3, 2009

# Team Leader (SES) for NNSA Defense Programs Innovator Team, NNSA HQ January 2008 – December 31, 2008

Led a team of senior technical and management advisors to address organizational and technical crosscutting issues for the Deputy Administrator for Defense Programs (DP). Reorganized DP to streamline reporting structure, strengthen nuclear safety and emphasize strategic focus.

Associate Director (AD) and Deputy AD (SES) of Technical Services, NNSA Service Center January 2003 – December 2007



As a result of the formation of NNSA (semi-autonomous agency under DOE) and formation of the Service Center, consolidated personnel from two other geographical locations to form a technical services capability of over 100 engineers and physical scientists to provide nuclear and industrial safety, non proliferation and environmental program and project management services to field and HQ customers.

#### Field Director, Emergency Response (SES), NNSA August 2002 – July 2003

Managed two of the seven NNSA national emergency response assets (Accident Response Group and Joint Technical Operations Team) and Region IV of the Radiological Assistance Program.

## Director of the Office of Weapons Surety (SES), DOE May 1998 – July 2002

Directed an organization of over 50 engineers and physical scientists for nuclear explosive safety, quality assurance, stockpile surveillance, packaging certification, and emergency response programs for the nuclear weapons program. Issued and implemented quality assurance policy (QC-1) for the nuclear weapons complex.

## Acting Director and Deputy Director of Weapon Programs, DOE 1995 – 1997

Directed an organization of 40 engineers and physical scientists for the program management of the design, development, production and dismantlement of the nuclear weapons program. Worked closely with senior management from DOE HQ, the national laboratories, production plants and DoD for the acquisition of major nuclear weapon systems. Personally managed the B61 earth penetrator acquisition for the development, testing and production, and fielded the system in sixteen months.

## Chief of Weapons Systems Branch, Weapon Programs Division, DOE 1992 – 1995

Managed the program integration of the design, development, production and dismantlement of strategic weapon systems, including, W62, W68, W76, W78, W87 and W88. I maintained critical production milestones in a time when new production was competing with dismantlement priorities brought on by Presidential initiative to retire tactical nuclear weapon systems.

## Detail to the Under Secretary's Office, DOE 1991 (September – December)

Provided field office reporting on safety and security occurrences for all DOE sites across the US and provided daily briefs to the Secretary of Energy.

## Senior Weapons Evaluation Engineer, Weapons Quality Division, DOE 1987 – 1991

Planned and managed new material and stockpile evaluation programs for the reliability assessments of Navy Strategic, UK Trident and Air Force Strategic nuclear weapon systems.

# Senior Program Engineer, Weapons Programs Division, DOE 1981 – 1986

Managed the W68, W76 and UK Trident weapon programs for the development, production, operation, maintenance and dismantlement activities. I was directly involved in the rate production of the W76 and led the US exchange of development and production activities in support of UK Trident Program under the US/UK Mutual Defense Program.



### **Classification Analyst, DOE**

#### 1979 - 1980

Developed classification guidance for weapon programs, systems, and components.

### Program Coordinator, Special Programs Division, DOE

1974 – 1978

Reviewed and authorized reimbursable work from other government agencies and placed work at the national laboratories in the areas of renewable, non-renewable and nuclear energy.

#### **EDUCATION**

1974, Earned a BS degree in Chemical Engineering from University of New Mexico

#### **SECURITY CLEARANCES**

DOE Q Top Secret (Held LANL Badge until April 2014)