



Bill Wilborn, U.S. DOE Nevada Field Office Sam Marutzky, Navarro Research & Engineering Inc.

> 2015 WM Symposia - Panel Session 072 March 18, 2015



Environmental Management

Co-chair Introductions

- Bill Wilborn, Federal Project Director and Project Management Professional
 - Underground Test Area (UGTA) Activity Lead for nine years
 - 20 years experience within Nevada Field Office Environmental Management Program
 - Bachelor of Science in Geology from University of Nevada, Las Vegas
- Sam Marutzky, Project Manager and Project Management Professional
 - UGTA Project Manager for 7 years
 - 30 years experience with DOE/Air Force Environmental Projects
 - Bachelor of Science degree in Electrical Engineering from University of Colorado, Masters degree in Business Administration from Mesa State College

NNSS Background

Large, geographically-diverse, research, evaluation and development complex that supports homeland security, national defense and nuclear nonproliferation

- Big 1,360 square miles (352,238 hectares)
- Secure Access to site is controlled
- Remote Surrounded by additional 4,500 square miles (~1.2 million hectares) of federally-owned land
- Historically used for nuclear research, development and testing (1951-1992)
- Responsible U.S. agency is Department of Energy (DOE), National Nuclear Security Administration Nevada Field Office

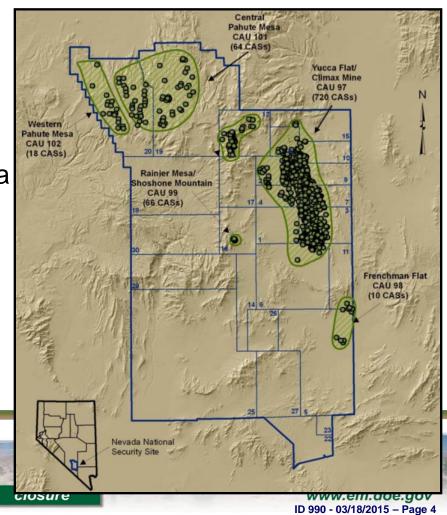




Environmental Managen

Groundwater Characterization Need

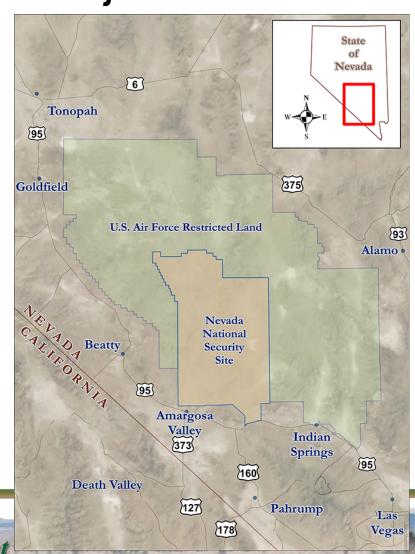
- 828 underground nuclear tests conducted at depths ranging from 90 to 4,800 feet (~27 to 1,460 meters) below the surface
 - Released 132 million curies directly into the subsurface environment
 - About one-third of tests conducted in or near groundwater
- Larger tests conducted on Pahute Mesa where 61% of underground contamination is located
- Underground Test Area (UGTA) program established to understand impacts through groundwater characterization



UGTA Closure Objectives

closure

- Closure with implementation of long-term closure monitoring network and institutional controls
- Continued monitoring to evaluate the protection of long-term closure strategy
- Periodic evaluations of model and monitoring network



UGTA Partners















NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

Navarro Research and Engineering, Inc.







Environmental Management

Presenters

- Irene Farnham
 Science Advisor, Underground Test Area Activity
 Navarro Research & Engineering Inc.
- Charles E Russell
 Deputy Directory of the Division of Hydrologic Sciences

 Desert Research Institute
- Donna Hruska
 Chair
 Nevada Site Specific Advisory Board

Presenters

(Continued)

Justin Marble
 Hydrologist, Office of Soil and Groundwater Remediation
 U.S. Department of Energy

Christine Andres
 Chief, Bureau of Federal Facilities
 State of Nevada Division of Environmental Protection

Thank You for Your Participation!

- Please turn off cell phones and take any side conversations outside the room
- Please hold your questions until the end of each presentation
- After all presentations have been given, and as time permits, you will have an opportunity to ask additional questions
- Please join us at our afternoon NNSS Waste Management panel discussion, session 93, which begins at 1:30pm in room 102BC
- More questions after today? Contact us at envmgt@nnsa.doe.gov