

# Status of NRC's Uranium Recovery Decommissioning Program

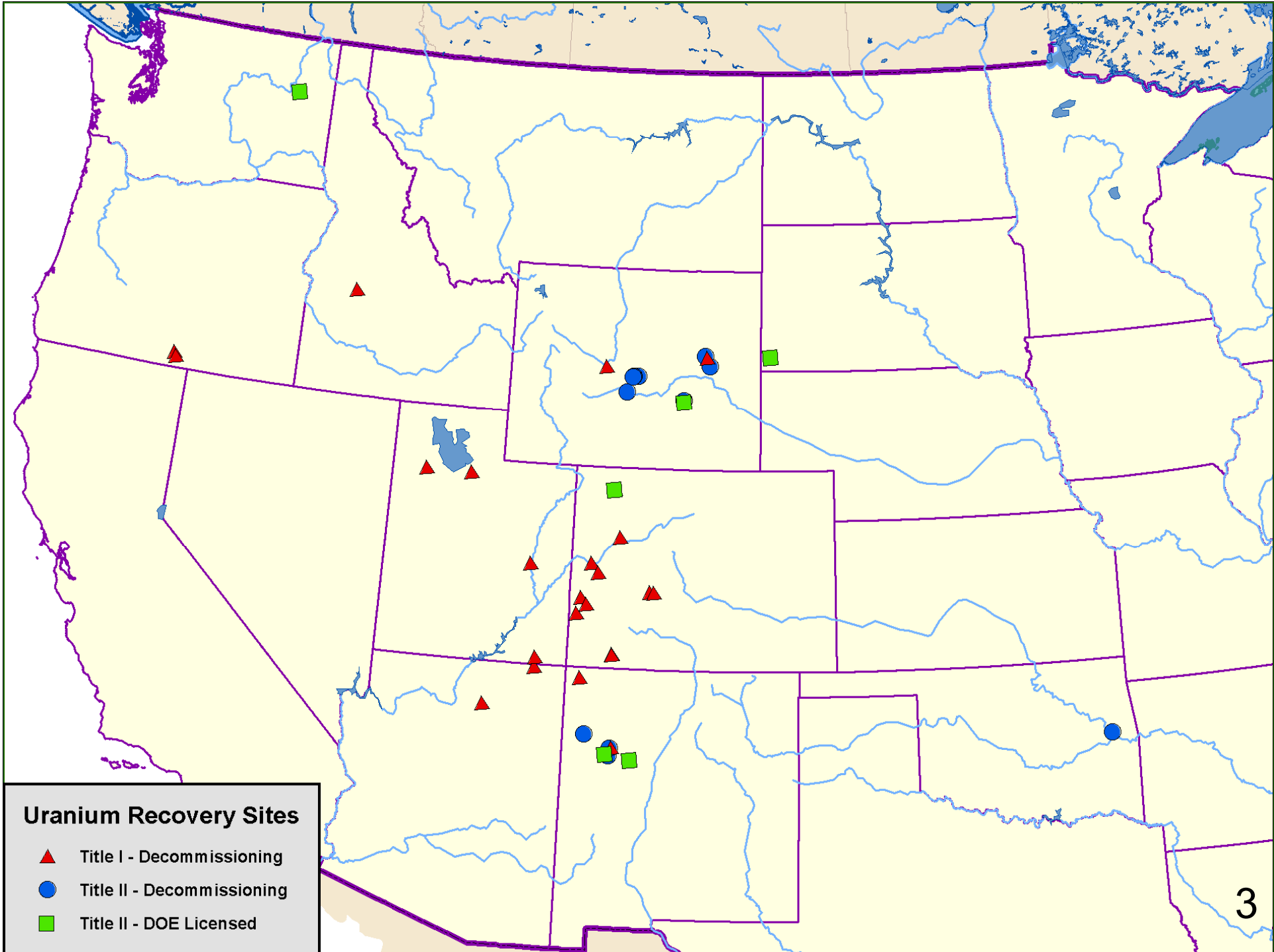
## 2014 National Mining Association Uranium Recovery Workshop

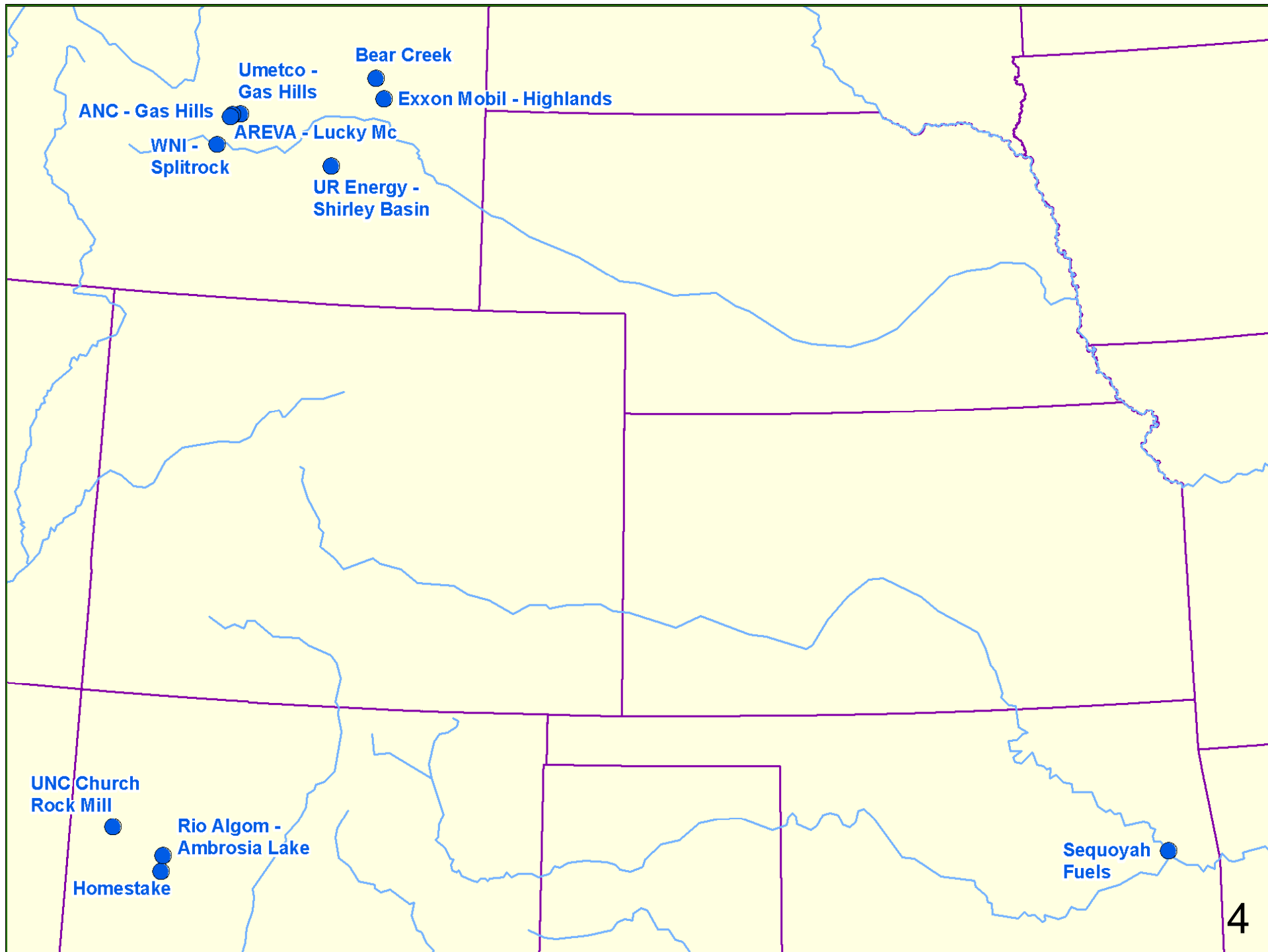
Dominick Orlando, Senior Project Manager  
Materials Decommissioning Branch  
Decommissioning and Uranium Recovery Licensing Directorate  
Division of Waste Management and Environmental Protection  
Office of Federal and State Materials and Environmental Management Programs

# Uranium Recovery Decommissioning Universe



- **Title I – Legacy sites**
  - **22 sites**
- **Title II – Sites licensed after 1978**
  - **11 NRC-licensed conventional sites**
  - **6 Sites transferred to DOE**
  - **0 ISRs**





# Navajo Nation 5-Year Plan



- **October 2007: House Committee on Oversight and Government Reform, requests Federal Agencies to develop a coordinated Five-Year Plan, in consultation with Navajo Nation, to address uranium contamination on the Navajo Nation**
  - **Environmental Protection Agency**
  - **Bureau of Indian Affairs**
  - **Department of Energy**
  - **Indian Health Service**
  - **Department of Health and Human Services, Agency for Toxic Substances and Disease Registry**

# Navajo Nation 5-Year Plan Objectives



- **Assessment and cleanup of contaminated structures**
- **Assessment of contaminated water sources, and provision of alternative water supplies**
- **Assessment of abandoned uranium mines, with detailed assessments of those most likely to pose environmental or health problems**
- **Cleanup of the Northeast Church Rock mine site and additional high-priority abandoned mine sites**
- **Cleanup of the Tuba City Highway 160 site**
- **Cleanup of the Tuba City Dump**
- **Remediation of groundwater contamination at three former mill sites**
- **Case control studies of health risks faced by individuals residing near mill sites or abandoned mine sites**

## 2008-2012

- Report issued in January, 2013 and can be found at [www.epa.gov/region9/superfund/navajo-nation/](http://www.epa.gov/region9/superfund/navajo-nation/).
- May 2014 - GAO recommend that all agencies develop a coordinated outreach strategy to include in the 2014 5-year plan, and should take action to incorporate key practices in their collaborative effort, such as defining and agreeing on the agencies' respective roles and responsibilities
- Agencies currently developing 2014-2019 Five Year Plan

# **United Nuclear Corporation (UNC) Church Rock Mill**

- **NRC and EPA-Region 6 have Joint Jurisdiction for Groundwater Contamination**
- **Three Tailings Disposal Cells Reclaimed 1989-1995**
- **Radon Cover In-place Since 1996**
- **Two Borrow Pits Reclaimed and Backfilled**
- **Mill Building Released for Unrestricted Use in 1995**
- **Semi-annual Groundwater Monitoring in Progress**
- **Groundwater Extraction System Operating On-site**
- **NRC is Reviewing UNC's License Amendment Request to Revise Groundwater Background Values. Decision by Summer - 2014**



# **North East Church Rock (NECR) Mine**

- **On September 29, 2011, EPA-R9 selected UNC Mill site for Disposal of 1M yd<sup>3</sup> of Mine Waste from the Adjoining NECR Mine Site**
- **On May 29, 2013, EPA-R6 Issued a Record of Decision to Accept Mine Waste at the UNC Mill Site**
- **In Fall -2013, In-situ Sampling Conducted at NECR Mine and UNC Mill at the Request of Agencies**
- **Summer 2014, Pre-Design Sampling Report (in-situ results) to be Submitted for Interagency Review**
- **License Amendment to Transfer Mine Waste to the UNC Mill Site Expected in CY-2016**
- **Ongoing Interagency Discussions to Resolve Technical, Regulatory, and Policy Issues**

# Questions?