



DBFT Project Technical Lead

- **Bob MacKinnon, Technical Manager**
- **Pat Brady, Lead Scientist**
- **Geoff Freeze, Project Lead and Safety Assessment**
- **Ernie Hardin, Test Package/Emplacement Engineering Lead**
- **Kris Kuhlman, Site Characterization Lead**
- **Frank Perry, LANL, Geologic Framework Model Lead**
- **David Sassani, Site Evaluation and Data Integration Lead**





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DBFT Objectives

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- *Synthesize field test activities, test results, and analyses into a comprehensive evaluation of concept feasibility*
 - Obtain a suitable test site
 - Design, drill and construct the Characterization Borehole to requirements
 - Collect data in the Characterization Borehole to characterize crystalline basement conditions and confirm expected hydrogeochemical conditions
 - *Design, drill and construct the Field Test borehole to requirements*
 - *Design and develop surface handling and emplacement equipment systems and operational methods for safe canister/waste package handling and emplacement*
 - *Conduct and document evaluation of concept feasibility*



SNL's Role

Support DOE in

- Development of the overall DBFT Project Plan,
- Providing project technical guidance to contractor, other DOE National Laboratories, and university partners
- Management and integration of all DBFT activities

SNL Reports (FY16)

- Deep Borehole Field Test Conceptual Design Report, 6/30/2016
- Deep Borehole Field Test Laboratory and Borehole Testing Strategy, 8/31/2016
- Integrated Geoscience Data and Evaluation of Geologic Conditions for the Deep Borehole Field Test Site, 9/9/2016
- Deep Borehole Disposal Safety Analysis, 9/16/2016



Key Success Factors

- **Effective Communication**
- **Comprehensive Planning**
- **Risk Management**
- **Data Management**
- **Strong Project Closure**