Exceptional service in the national interest

Sandia National Laboratories
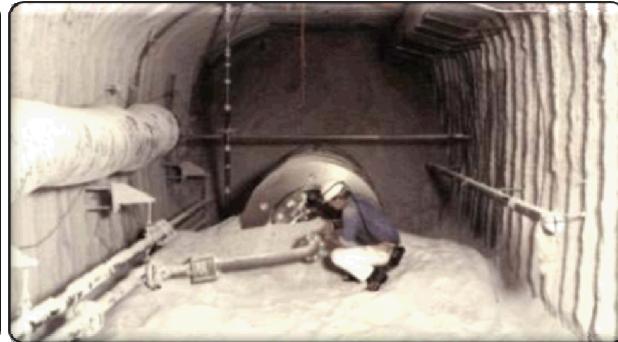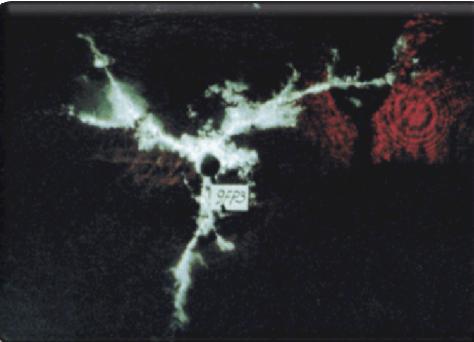
Salt Club: Salt Knowledge Archive

2014 Update

NEA Salt Club Meeting

Paris. 18 March, 2014

Kristopher L. Kuhlman

Sandia National Laboratories, Albuquerque New Mexico

U.S. DEPARTMENT OF ENERGY

Salt Knowledge Archive

- Extensive reports/studies/papers on salt (50+ years)
- Knowledge archive will contain references to documents on radioactive waste disposal in salt formations
- References include digital copies of documents
- Documents also include metadata:
  - A unique document identifier
  - Document type
  - Document abstract/summary
  - Citation/reference
  - Ranking from a list of keywords
  - Text field for additional short description or notes

SITED: Salt Report Database

- Online (password-protected) digital report archive
  - Sandia-hosted secure server (https://sited.sandia.gov/sited)
- Based on open-source bibliographic database "refbase"
  - Standard open-source technology (PHP + MySQL)

The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.
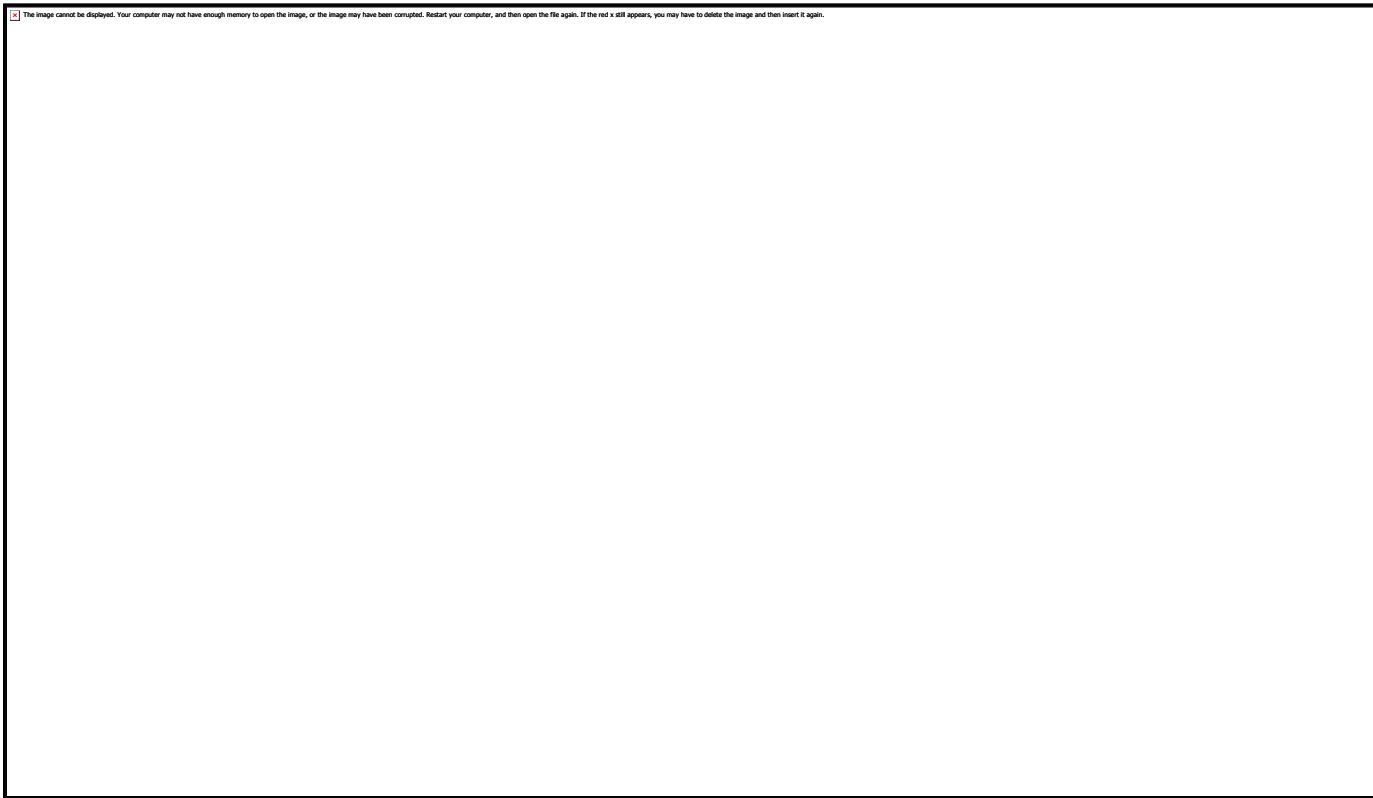
SITED: Salt Report Database

- Developed by SNL for US DOE Office of Nuclear Energy (2012)
- Database initially populated with pdf copies of reports from:
  - WIPP Project Records Center (WIPP reports)
  - Sandia Technical Library database query (WIPP reports)
  - Oak Ridge National Laboratory library (Salt Vault reports)
  - US Geological Survey library (general salt geology reports)
  - US DOE "OSTI Bridge" online database (all DOE-funded reports)
  - European Union online bookshop database (Asse reports)
- Continually adding to database
  - Scanning old reports
  - Adding new reports

SITED as Salt Knowledge Archive?

- SITED hosted by OECD NEA? (Oct-Nov 2013)
  - Must be Oracle database / SITED is MySQL
    - Database migration easy
    - PHP debugging more difficult and unknown
  - Based on open-source application (refbase)
    - No commercial support for updates
    - 3rd party security audit required to approve for servers
  - Questions about future maintenance / security fixes
    - Who will do the work?
    - If NEA, who will pay for it?
- SITED at SNL
  - Upgraded hardware / A "working solution" for now
- SITED on some other Salt club partner's webserver?

Thank You.

Discussion?