

Answering the Need for Responsive Worker Health Solutions

Capabilities in Worker Health and Electronic Medical Records Management

- Perform health surveillance of active worker populations
- Manage medical surveillance programs for former workers
- Provide beryllium lymphocyte proliferation testing to ascertain sensitization status
- Maintain large, dynamic databases of exposure, work history and demographic data for worker populations
- Perform radiation dose reconstructions for compensation purposes
- Perform epidemiologic studies and research

Key Customers

- U.S. Department of Energy (DOE)
 - Lawrence Livermore National Laboratory (LLNL)
 - Argonne National Laboratory (Argonne)
 - Oak Ridge National Laboratory (ORNL)
 - Y-12 National Security Complex
 - Kansas City Plant
- U.S. Department of Health and Human Services (HHS)
 - National Institute for Occupational Safety and Health (NIOSH)
- U.S. Department of Labor (DOL)
- DuPont
- U.S. Enrichment Corp (USEC)
- U.S. Nuclear Regulatory Commission (NRC)
- U.S. Department of Defense (DOD)
 - Defense Threat Reduction Agency (DTRA)

Key Partners

- L-3 Communications, Inc.
- NetGain
- Comprehensive Health Services, Inc.
- Dade Moeller & Associates
- MJW Corporation Inc.
- National Jewish Health
- Occupational HealthLink (OHL)
- University of Colorado

Special Programs

- **DOE National Supplemental Screening Program**
1-866-812-6703
- **DOE Beryllium Vendors Medical Screening Program**
1-866-219-3448
- **NIOSH Dose Reconstruction Project**
1-800-322-0111

*W*hen the diagnosis is illness or disease linked to workers' occupational radiation or other hazardous substance exposures, workers need a responsive and medically competent system to address their health needs. The U.S. Department of Energy and National Institute for Occupational Safety and Health, specifically, needed an effective, national system to manage the health needs of current and former nuclear workers in an accurate, timely, and cost-efficient manner. ORAU has established effective partnerships on a national scale to provide innovative worker health solutions and has the experience and expertise necessary to manage this process with the highest levels of quality and integrity.



ORISE

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

ORISE is managed by ORAU for the U.S. Department of Energy

Providing a Comprehensive Approach to the Management of Worker Health Concerns

DOE is committed to ensuring that all research and production activities at its facilities are performed in a safe and environmentally responsible manner. The measurement and analysis of occupational-related health issues of DOE workers is critical to help mitigate the causes and effects of on-the-job exposures.

From broad-scope epidemiology and health screenings/surveillance studies to individual worker beryllium sensitization testing and radiation dose reconstruction, ORAU offers a comprehensive approach to helping DOE and other customers manage their worker health concerns.



2008 Key Accomplishments

- ORAU's Beryllium Laboratory nearly doubled its number of customers and performed a total of 3,464 beryllium lymphocyte proliferation tests with an error-free rate of 99.8%.
- ORAU and its partners, Dade Moeller & Associates and MJW Corporation, as well as personnel from NIOSH, contributed 16 papers documenting the Energy Employee Occupational Illness Compensation Program Act dose reconstruction process to a special issue of *Health Physics: The Radiation Safety Journal*, July 2008.
- Since 2002, the ORAU Team has performed 21,678 initial, individual dose reconstructions as part of a contract with NIOSH.
- ORAU leveraged a partnership with Occupational HealthLink—and systems developed for DOE's National Supplemental Screening Program—to design and implement a highly secure, comprehensive, and scalable Web-based database system for the administration and integration of exposure data and medical monitoring for workers at Argonne National Laboratory.
- Using experience gained on the NIOSH dose reconstruction project, ORAU developed a comprehensive quality assurance program for the DTRA dose reconstruction program for atomic veterans, and assisted DTRA to implement an expedited processing procedure that helped to clear a four-year backlog of cases awaiting dose reconstruction.

Monitoring the Health of Energy Workers

ORAU has 30 years of experience in the effective retrieval, management, and use of occupational health data for worker health studies for federal agencies, such as:

- DOE Illness and Injury Surveillance Program: 14 sites, 115,000 workers
- DOE National Supplemental Screening Program: 26 sites, 50,000 workers
- DOE Radiation Exposure Monitoring System: 99 sites, 540,000 workers
- DOE Health and Mortality Study: 60 sites, 450,000 workers
- DOE, Congress-mandated 5 Rem Study: 32 sites, 3,000 workers
- DOE Beryllium-Associated Worker Registry: 21 sites, 18,095 workers
- NRC Radiation Exposure Information and Reporting System: 1,800+ licensees, more than one million individuals monitored
- NIOSH Radiation Dose Reconstruction Project per EEOICPA Subpart B: 332 sites, 25,000 claimants

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www.orau.org/occupational-exposure-worker-health-studies