

ISR Regulation & Compliance

Cameco Resources

Smith Ranch – Highland Operation

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Safety, Health, Environment, and Quality (SHEQ) Manager

August 4, 2010

Double



Safe, clean, reliable.

Doubling uranium production by 2018.



Cameco

Discussion Topics

- **Cameco Vision**
- **Regulatory Overview**
- **Cameco Safety, Health, Environmental, and Quality (SHEQ) Programs**
- **Community Involvement**

► Our Vision



● Our Values

- Safety, health, environment and quality (SHEQ) are top priorities
- People, Integrity, Excellence

► Our Vision



● Our Commitments

- Living a strong safety culture
- Being a leading SHEQ performer
- Keeping all risks as low as reasonably achievable (ALARA)
- Preventing pollution
- Moving beyond regulatory compliance
- Ensuring quality
- Continually improving

► Our Vision



● Our Measures of Success

- A safe, healthy, and rewarding workplace
- A clean environment
- Supportive communities

Federal and State Agencies

US Nuclear Regulatory Commission (NRC)

WY and NE Departments of Environmental Quality (DEQ)

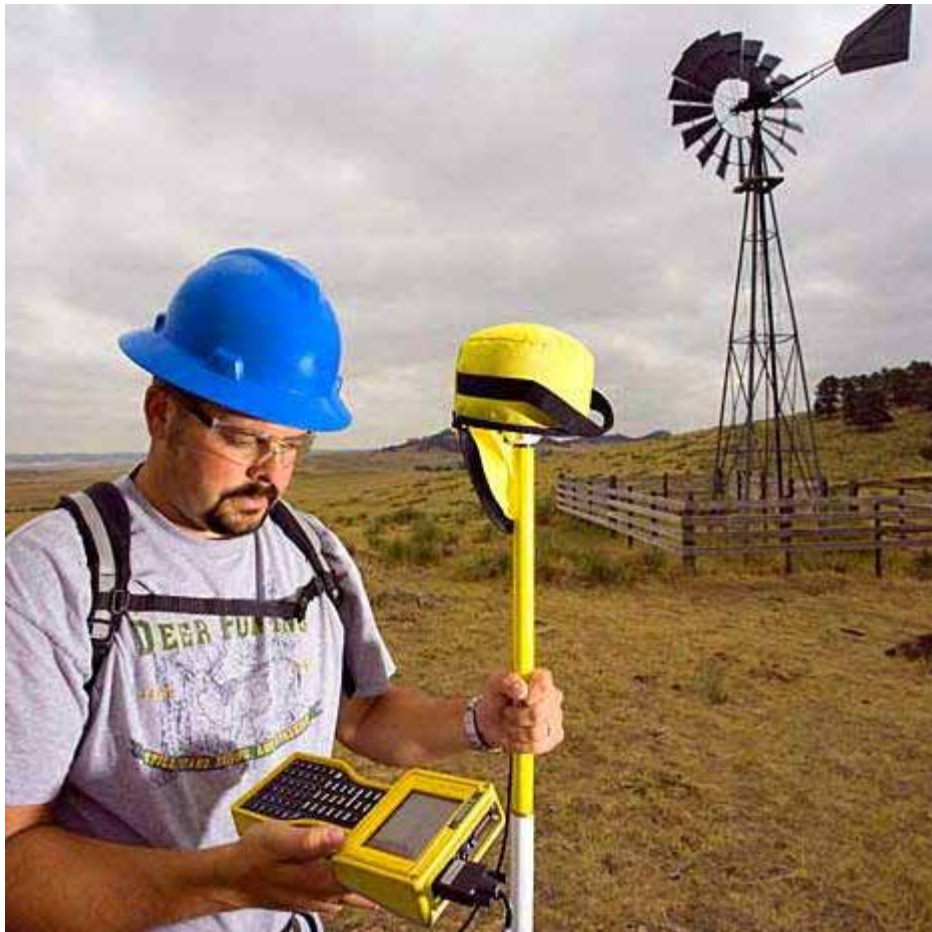
US Bureau of Land Management (BLM)

US Environmental Protection Agency (EPA)

US Occupational Safety and Health Administration (OSHA)

US Department of Transportation (DOT)

Regulatory Overview



● NRC

- Oversee general public and worker radiological health compliance
- Issue source material license required to operate an ISR mine
- Approve bond to assure reclamation/restoration
- Regulate by-product waste disposal (11(e)(2))

▶ Regulatory Overview (cont.)

- **WDEQ**

- Land Quality Permit to Mine
- Water Quality for deep disposal wells, Storm Water Pollution Prevention Plan, Spill Prevention, Control, Countermeasures Plan
- Air Quality Division
- Solid and Hazardous Waste Division

- **State Engineers Office for cased wells**



▶ Regulatory Overview (cont.)

● BLM

- Approve Plan of Operations
 - Environmental Impact Statements (EIS) (or Environmental Assessments (EA)) if on BLM land
- Coordinates with US Fish and Wildlife Service, State Game and Fish, and State Historic Preservation Office



▶ Regulatory Overview (cont.)

- **EPA**

- Aquifer exemption
- Tier II reporting (also provide to local and state emergency response agencies)

- **OSHA**

- Employee, contractor, and visitor safety and health aspects

- **DOT**

- Shipments of yellowcake



Cameco SHEQ Program

- **Safety, Environmental, and Radiological Management Systems**
 - Environmental Management System is ISO-14001 Certified
 - Corporate Cameco audits of safety, environmental and radiation safety programs/systems
 - Yearly third party ALARA audit
 - Yearly OSHA Employer Voluntary Technical Assistance Program (EVTAP) consultation (inspection)



Cameco Health and Safety

- **Training – New hire, Quarterly refresher**
- **Contractor Management Program**
- **Job hazard analysis**
- **Safety inspections**
- **Wellness program**
- **Safety Committee**
- **Emergency Response**

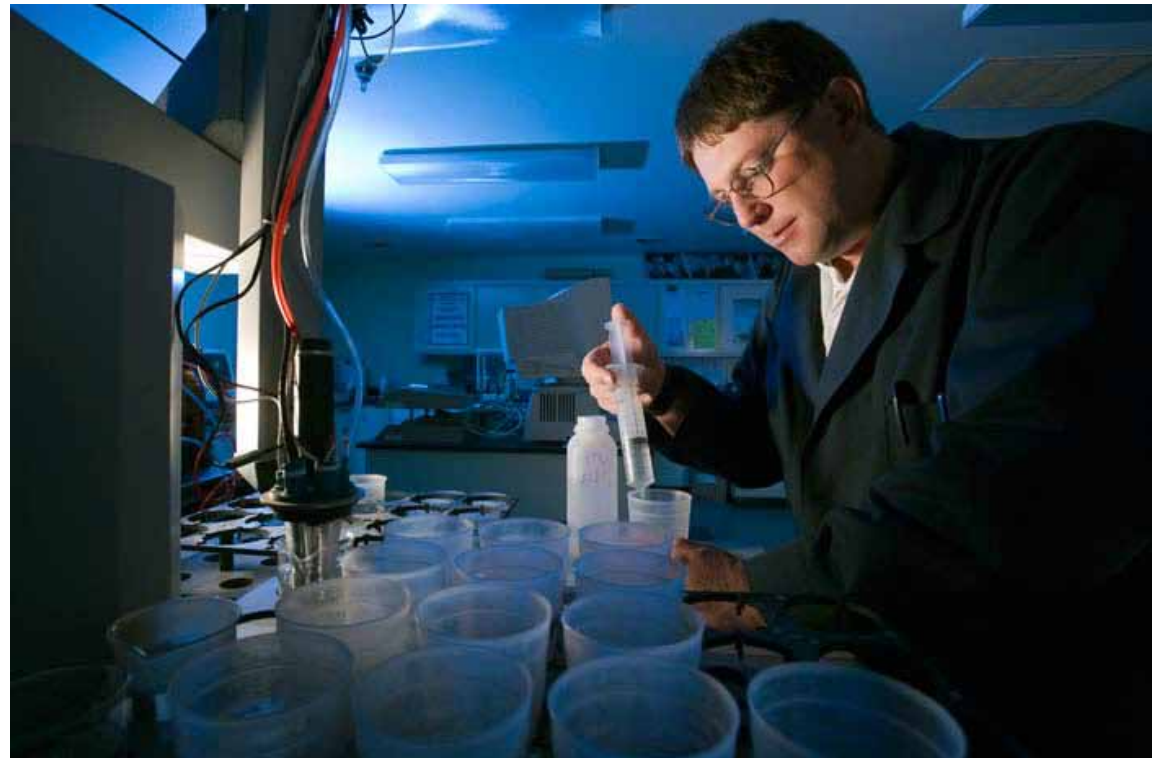
▶ Cameco Radiological Health

- **Work area monitoring**
 - Weekly or monthly surveys, dosimeter badges
- **Personal Protective Equipment (PPE)**
- **Offsite monitoring**



▶ Cameco Environmental Protection

- **Groundwater monitoring and restoration activities**
 - Bi-monthly monitoring of all monitor wells
 - w SRH: 800 x every two weeks = 20,000+ tests annually
 - Restoration Department



▶ Cameco Environmental Protection

- **Inspections**

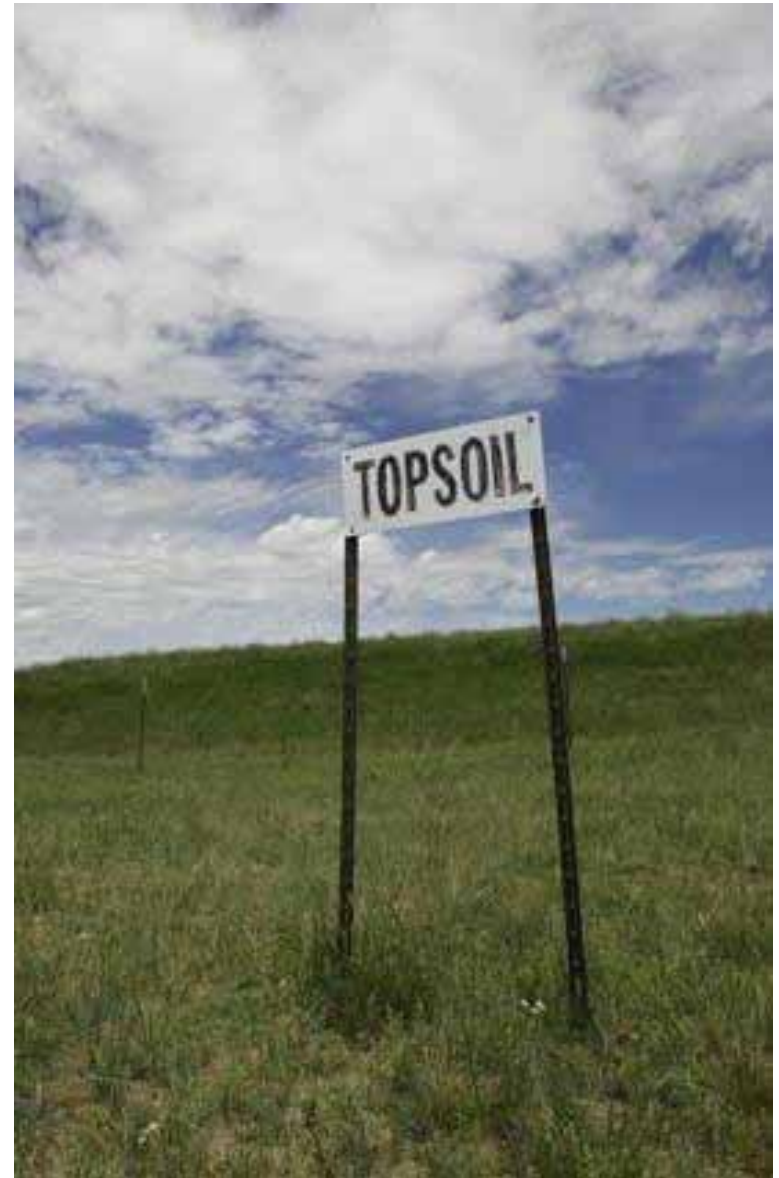
- Daily wellfield inspections
- Weekly inspections



▶ Cameco Environmental Protection

- **Standard Work Practices**

- Topsoil segregation and management
- Surface reclamation (contouring, seeding)
- Drainage control/management
- Quarterly surface/groundwater sampling (stockponds, water wells)
- Spill detection and response



Community Involvement



- Site Tours
- Community contributions
- Actively participate in WMA, NMA; other public forums
- Recognizing employees for their success

Cameco's Measures of Success

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- A clean environment
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