



NRC Performance Review of Licensed Activities American Centrifuge Lead Cascade Facility

April 21, 2015
Public Meeting

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Approved for Public Release
Reviewer: Gregg Peed
Date: April 20, 2015



Introduction

Steve Penrod

Vice President, American Centrifuge

Project Update

Research, Development and Demonstration (RD&D) Program

- Cooperative agreement with the U.S. Department of Energy for the research, development and demonstration of the American Centrifuge technology
- RD&D achieved or exceeded all program technical milestones and performance indicators on or ahead of schedule and on or under budget
- Commercial Demonstration Cascade operations began in June 2013 and achieved more than 20-machine years of operation at commercial plant specifications
- Successfully passed unannounced station blackout test to prove technical readiness

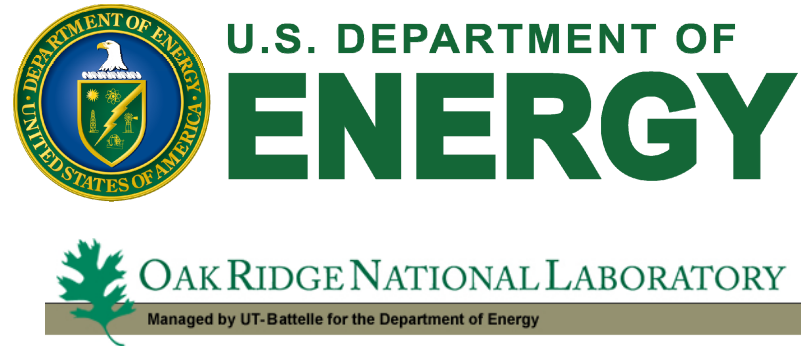


Demonstration of Technology:
The American Centrifuge Plant at Piketon has more than 2.5 million hours of combined machine runtime (>300 machine years).

Project Update (continued)

American Centrifuge Technology Demonstration and Operations (ACTDO) Agreement

- May 2014: Signed the ACTDO Agreement with UT-Battelle LLC, as operator of the Oak Ridge National Laboratory (ORNL)
- 100% DOE-funded firm fixed-price contract
 - \$97.2 million in FY2015



- Provides for continued research, development and demonstration of American Centrifuge technology for national security purposes that includes:
 - Continuation of cascade operations at Piketon
 - Testing at facility in Oak Ridge, Tenn.
 - Core American Centrifuge research and technology activities; and the furnishing of related reports to ORNL



American Centrifuge Operating, LLC

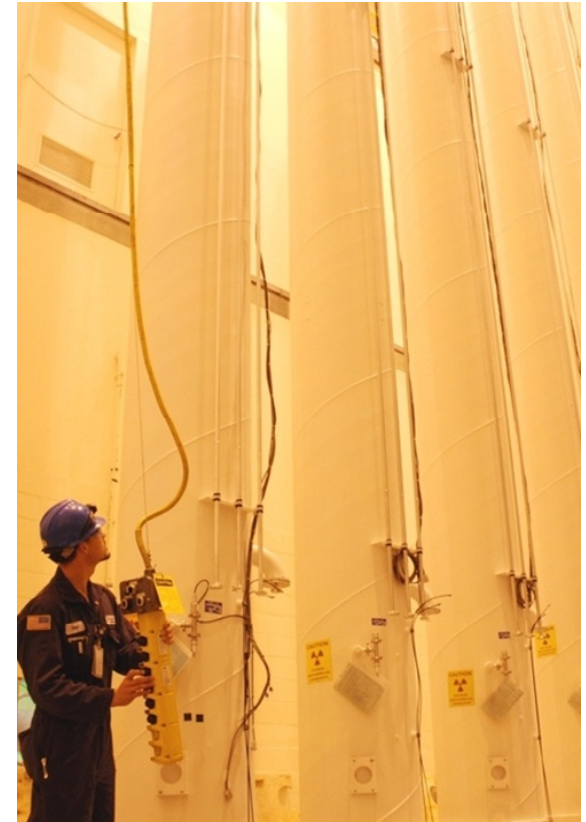
Perspective on Performance

Jim Lewis

General Manager, American Centrifuge Plant Operations

Regulatory Performance

- U.S. Nuclear Regulatory Commission (NRC) review period – January 1, 2013 through December 31, 2014
- Performance areas evaluated during the review period include:
 - Safety Operations
 - Safeguards
 - Radiological Controls
 - Facility Support
 - Other Areas
- Nine NRC Inspection Reports issued
 - NRC identified no violations or deviations
- We acknowledge this good performance and continue to seek opportunities to enhance it
 - Currently comparing our Corrective Action Program with the recently published Regulatory Guide 3.75, *“Corrective Action Programs for Fuel Cycle Facilities”*



Safety Performance

- Operated safely with no adverse consequences to public or worker health and safety or the environment
- American Centrifuge Piketon employees have had no Days-Away Restricted Transferred (DART) injuries or illnesses during the performance period
 - As of April 20, 2015, employees have worked **2,694 days** without a DART injury/illness
 - No DART injuries/illnesses since December 2007
- Our employees deserve the credit for this safety performance
 - Management team continues to encourage vigilance and reporting “near misses”
 - Human Performance Improvement training



Summary

- Centrus is maintaining focus on safe and compliant operation.
- Centrus is pursuing opportunities to enhance our regulatory, safety, and operational performance
- Centrus is preserving the private and public investment to ensure that the U.S. has a source of enriched uranium production for energy and national security free from foreign ownership, control and influence