USEC, Inc. (American Centrifuge Plant), Docket No. 70-7004
March 2007 Mandatory Hearing on Uncontested Issues
NRC Staff Pre-filed Hearing Exhibits

| STAFF EXHIBIT NUMBER | HEARING ISSUE / WITNESS | DESCRIPTION |
|---|---|---|
| Staff 1 | All | NUREG-1851, "Safety Evaluation Report for the American Centrifuge Plant in Piketon, Ohio" (2006) |
| Staff 2 | All | NUREG-1834, "Environmental Impact Statement for the Proposed American Centrifuge Plant in Piketon, Ohio" (2006) |
| Staff 3 | HTS-1 | Slides accompanying presentation by Yawar Faraz |
| Staff 4 | HTS-2 | Draft "Memorandum of Understanding Between the Department of Energy and the Nuclear Regulatory Commission: Cooperation Regarding the American Centrifuge Plant in Piketon, Ohio" (Dec. 6, 2006). **OUO-Sensitive Internal Information** |
| Staff 5 | HTS-2; HTS-3; HTS-4 | Letter from Peter Miner, USEC, to Jack Strosnider, NRC, submitting "Supplemental Agreement No. 1 and Appendix 1 of the Lease Agreement Related to the American Centrifuge Plant," January 17, 2007. |
| Staff 6 | HTS-2 | "Regulatory Oversight Agreement Between United States Department of Energy and the United States Enrichment Corporation" (Lease Exhibit M), December 19, 2006. |
| Staff 7 | HTS-2 | "Memorandum of Understanding Between the Department of Energy and the Nuclear Regulatory Commission: Cooperation Regarding the Gas Centrifuge Lead Cascade Facilities at the Portsmouth Gaseous Diffusion Plant Site." |
| Staff 8 | HTS-5 | License Application for the American Centrifuge Plant in Piketon, Ohio, Rev. 17, "Table 1.2-1, Possession Limits for NRC Regulated Materials and Substances." |
| Staff 9 | HTS-5 | License Application for the American Centrifuge Plant in Piketon, Ohio, Rev. 17, "Table 1.2-2, Authorized Uses of NRC-Regulated Materials." |
| Staff 10 | HTS-5 | License Application for the American Centrifuge Plant in Piketon, Ohio, Rev. 17, "Figure 2.1-1, American Centrifuge Plant Organization Chart." |
| Staff 11 | HTS-6 | News Release, "USEC Updates Cost Estimate and Schedule for American Centrifuge Plant," February 12, 2007 |
| Staff 12 | HTS-7 | Letter from Steven Toelle, USEC, to Jack Strosnider, NRC, "Submittal of Additional Information for the American Centrifuge Plant Related to Depleted Uranium Disposal Costs," February 28, 2006. |

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|---|---|---|
| Staff 13 | HTS-7 | Letter from Steven Toelle, USEC, to Jack Strosnider, NRC, "Submittal of Planned Changes to the License Application and Supporting Documents for the American Centrifuge Plant," June 5, 2006. **OUO-Proprietary** |
| Staff 14 | HTS-7 | Email from P. Miner (USEC) to S. Echols (NRC), "Table C3.19 Estimated Volume of Annual Depleted Uranium Generated for 7.0 MSWU Plant," February 13, 2007. |
| Staff 15 | HTS-7; HTE-2 | Letter from Dane Finerfrock, State of Utah, Department of Environmental Quality, to P.H. Lohaus, NRC, "Subject: Possession Limits of Calibration Source," September 19, 2005. |
| Staff 16 | HTS-7 | Excerpt from NUREG-1790, "Environmental Impact Statement for the Proposed National Enrichment Facility in Lea County, New Mexico," 2-27 to 2-28 (2005). |
| Staff 17 | HTS-7; HTE-2 | R.D. Baird, et al., "Evaluation of the Potential Public Health Impacts Associated with Radioactive Waste Disposal at a Site Near Clive, Utah," June 1990. |
| Staff 18 | HTS-7; HTE-2 | Memorandum from M. Blevins (NRC) to S. Flanders (NRC), "Subject: Telephone Summary Regarding Depleted Uranium Disposal," April 6, 2005. |
| Staff 19 | HTS-8 | Integrated Safety Analysis Summary for the American Centrifuge Plant in Piketon, Ohio, Rev. 14, "Table C-2, Hazard Evaluation Table for the Feed Area of the Feed and Customer Services Building X-3346 Feed Area." **OUO – DOE NOFORN** |
| Staff 20 | HTS-8 | Integrated Safety Analysis Summary for the American Centrifuge Plant in Piketon, Ohio, Rev. 14, "Table C-7, Hazard Evaluation Table for the Sampling and Transfer Area of the Feed and Customer Services Building X-3346 Sampling and Transfer Area." **OUO – DOE NOFORN** |
| Staff 21 | HTS-8 | Integrated Safety Analysis Summary for the American Centrifuge Plant in Piketon, Ohio, Rev. 14, "Table C-5, Hazard Evaluation Table for Product and Tails Withdrawal Building X-3356." **OUO – DOE NOFORN** |
| Staff 22 | HTS-8 | LA-13638, "A Review of Criticality Accidents" (2000). |
| Staff 23 | HTS-8 | Note to File from Christopher S. Tripp and Norma Garcia Santos, "Accident Analysis Regarding Inadvertent Generic Criticality Event for the American Centrifuge Plant," November 22, 2005. **OUO – DOE NOFORN** |
| Staff 24 | HTS-8 | Letter from Stephen M. Bowman, Oak Ridge National Laboratory, to Tamara D. Powell, NRC, "Estimated Production of Select Fission Products During a Criticality Accident," September 13, 2005 |
| Staff 25 | HTS-8 | NUREG/CR-6410, "Nuclear Fuel Cycle Facility Accident Analysis Handbook," Section 3.4, Source Term Estimations for Inadvertent Nuclear Criticality Excursions (1998). |

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|---|---|---|
| Staff 26 | HTS-8 | Integrated Safety Analysis Summary for the American Centrifuge Plant in Piketon, Ohio, Rev. 14, "Table F-7, Risk Reduction Table for the Sampling and Transfer Area of the Feed and Customer Services Building, X-3346 Building." **OUO – DOE NOFORN** |
| Staff 27 | HTE-1 | Energy Information Administration, "Uranium Marketing Annual Report," U.S. Department of Energy (2004), available at www.tonto.eia.doe.gov/FTPROOT/nuclear/umar2004.pdf |
| Staff 28 | HTE-1 | U.S. Department of Energy, "Effect of U.S./Russia Highly Enriched Uranium Agreement," December 31, 2001. |
| Staff 29 | HTE-2 | U.S. Department of Energy. "Final Environmental Impact Statement for Construction and Operation of a Depleted Uranium Hexafluoride Conversion Facility at the Portsmouth, Ohio Site." DOE/EIS-0360. Office of Environmental Management. June 2004. |
| Staff 30 | HTE-2 | U.S. Department of Energy. "Final Programmatic Environmental Impact Statement for Alternative Strategies for the Long Term Management and Use of Depleted Uranium Hexaflouride." DOE/EIS-0269. Office of Nuclear Energy, Science and Technology. April 1999. |
| Staff 31 | HTE-2 | Croff, A.G. et al. *Evaluation of the Acceptability of Potential Depleted Uranium Hexafluoride Conversion Products at the Envirocare Disposal Site,* ORNL/TM-2000/355. Oak Ridge National Laboratory, Oak Ridge, TN. December 2000. |
| Staff 32 | HTE-2 | Memorandum from Mariana Arcaya and Hannah Arnold, ICF, to Mike Zatz, ICF, "Remaining Landfill Capacity in the United States," November 10, 2003. |
| Staff 33 | HTE-2 | Utah Department of Environmental Quality, Division of Radiation Control, Radioactive Material License Number UT 2300249, Amendment # 23, October 22, 2003 |
| Staff 34 | HTE-3 | Locations of Routine Surface Water Sampling Points and Biota Samples (RW-1, RW-2, RW-6, and RW-8) |
| Staff 35 | HTE-3 | Stream Sediment Sampling Locations and Surface Water Samples RW-10N, RW-10S, RW-10E, and RW-10W |
| Staff 36 | HTE-3 | Soil and Vegetation Sampling Locations |
| Staff 37 | HTE-3 | Location of the four lagoons, eight holding ponds, the four named streams on the DOE property |
| Staff 38 | HTE-3 | The ground water monitoring areas on the DOE reservation |
| Staff 39 | HTE-3 | TCE plume and monitoring wells at X-749/X/120/Peter Kiewit Landfill located south of the Proposed ACP |

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|---|---|---|
| Staff 40 | HTE-3 | TCE plume and monitoring in the Quadrant 1 and X-749A monitoring area east of the proposed ACP |
| Staff 41 | HTE-3 | TCE plume and monitoring wells at the Quadrant 2 monitoring area north of the proposed ACP |
| Staff 42 | HTE-3 | TCE plume and monitoring wells at X-701B Holding Pond, located northeast of the proposed ACP |
| Staff 43 | HTE-3 | TCE plume and monitoring wells at X-740 Waste Oil Handling Facility north of the proposed ACP |
| Staff 44 | HTE-3 | Monitoring wells and chromium concentrations at x-616 Chromium Sludge Surface Impoundments |
| Staff 45 | HTE-3 | Table of Background Air Concentrations |
| Staff 46 | HTE-3 | Table of Background Concentrations of Radionuclides and Chemicals in Sediment |
| Staff 47 | HTE-3 | Table of Background Soil Concentration for Selected Radioactive Elements |
| Staff 48 | HTE-3 | Table of Vegetation Monitoring Program Background Levels |
| Staff 49 | HTE-3 | Table of Surface-Water Monitoring Background Results |
| Staff 50 | HTE-3 | Table of Environmental Measurement and Monitoring Program Sampling Locations, Parameters, and Frequency |
| Staff 51 | HTE-3 | License Application for the American Centrifuge Plant in Piketon, Ohio, Rev. 14, Figures 9.2-1 through 9.2-7. |
| Staff 52 | HTE-3 | License Application for the American Centrifuge Plant in Piketon, Ohio, Rev. 14, Tables 9.2-1 through 9.2-8. |
| Staff 53 | HTS-7 | Incremental Decommissioning Costs Over Time |
| Staff 54 | All | Professional Qualifications of NRC Staff Witnesses |
| Staff 55 | HTS-12 | SECY-00-0110, "Evaluation of the Feasibility of NRC Creating and Maintaining a Web Page Serving as a Bulletin Board for Agreement State Rulemaking Activities," May 18, 2000. |
| Staff 56 | HTS-10, HTS-12 | Memorandum from Yawar Faraz, NRC, to Joseph Giitter, NRC, "October 25-27, 2004, USEC, Inc. American Centrifuge Plant Integrated Safety Analysis Onsite Review," Dec. 9, 2004. **OUO** |
| Staff 57 | HTS-12 | Memorandum from Yawar Faraz, NRC, to Joseph Giitter, NRC, "November 8-10, 2004, USEC, Inc. American Centrifuge Plant Integrated Safety Analysis Onsite Review," Dec. 15, 2004. **OUO** |

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|---|---|---|
| Staff 58 | HTS-12 | Memorandum from Yawar Faraz, NRC, to James Clifford, NRC, "August 15-17, 2005, USEC, Inc. American Centrifuge Plant Integrated Safety Analysis Onsite Review," Oct. 6, 2005. **OUO** |
| Staff 59 | HTS-10 | Memorandum from Stan Echols, NRC, to Joseph Giitter, NRC, "April 2-4, 2006, On-Site Review Summary: Vertical Slice Review," May 23, 2006. |
| Staff 60 | HTS-12 | Memorandum from Robert Pierson, NCR to FCCS Staff, "United States Enrichment Corporation License Detail Regarding the Level of Information Needed for 10 CFR Part 70 Licensing," Aug. 4, 2006. |
| Staff 61 | HTS-12 | ISA Summary Table 7.2-1: Items Relied on For Safety (IROFS) **OUO** |
| Staff 62 | HTS-12 | Differing Professional Opinion filed by F. Burrows, M. Galloway, R. Shaffer, and C. Tripp (Nov. 11, 2006). **OUO** |