Good afternoon, Chairman Nelson and Members of the Subcommittee. I am pleased to be here today to address and answer your questions on the President’s Fiscal Year (FY) 2008 budget request for the Department of Energy’s Environmental Management (EM) program. I want to thank the Subcommittee for its support of the EM program.

The EM mission was undertaken to address the safe and successful cleanup of the Cold War legacy brought about from five decades of nuclear weapons development and government-sponsored nuclear energy research. This mission, as I pointed out last year, is both inherently challenging and innately beneficial to the American people. As this subcommittee knows the EM program has solved several cleanup challenges, including Rocky Flats and Fernald, that at one time seemed insurmountable. We are also making progress on the many other complex challenges that the program still faces. Since I last appeared before this committee, EM has been able to achieve notable results by addressing these challenges through a risk reduction and prioritization strategy and a judicious use of the resources that Congress entrusts to us. EM is implementing this prioritized, risk reduction strategy supported by the crucial tenets of safety, performance, cleanup, and closure.

The President’s Fiscal Year 2008 budget request will allow this prioritized work on these important cleanup and closure projects to continue across the complex. For the EM program, the President’s budget request for FY 2008 is $5.4 billion for defense environmental management activities. We’ve been able to achieve a decrease of $26 million from the FY 2007 request by employing a thoughtful balance of reducing risk and completing cleanup for the EM program. About half of our budget request will go towards our highest risks activities in stabilizing tank waste, nuclear materials, and spent nuclear fuel, and another quarter is going to clean up contaminated soil, groundwater, and unused facilities. With this request, we are continuing on our strategic course to address high-priority tank waste treatment and radioactive waste disposition while preserving our site completion and closure drive. Under this strategy, we anticipate meeting 90 percent of the approximately 210 scheduled compliance agreement milestones for FY 2008. The Department remains committed to meeting its regulatory milestones and will continue to identify ways to better manage its cleanup activities. Our agreements have provisions for renegotiation of milestones and we are working with our regulators to provide the best benefit to the environment.

With this budget request, the Defense Waste Processing Facility at the Savannah River Site (SRS), the Advanced Mixed Waste Treatment Facility at the Idaho National
Laboratory (INL), and the Toxic Substance Control Act Incinerator at the Oak Ridge
Reservation (ORR) will continue to operate. Design and construction will continue at the
Waste Treatment and Immobilization Plant (WTP) at Hanford, the Sodium-Bearing
Waste Treatment Plant at INL, and the Salt Waste Processing Facility (SWPF) at SRS.
Tank farm operations will continue at Hanford, INL, and SRS along with spent nuclear
fuel receipt, storage, and cleanup. I would like to update you regarding two of these
important tank waste projects.

As you know, the Waste Treatment and Immobilization Plant at Hanford is the
Department’s largest capital project. Over the past 18 months, the Department has
retained a broad range of external, senior professionals from private industry, academia,
and other government agencies to thoroughly review the management issues, technical
approach and remaining challenges, adequacy of the design to meet the seismic criteria,
and the cost and schedule elements of the WTP project. The results of these reviews,
together with implementing the many recommendations, provide the Department with the
assurance that the WTP can be built and commissioned as designed to treat and
immobilize the high-level waste, and can be executed within the revised cost and
schedule baseline.

Also related to the WTP, the John Warner National Defense Authorization Act for Fiscal
Year 2007, Section 3120, included a limitation on availability of funds, pending the
certification by the Secretary of Energy that the Defense Contract Management Agency
has recommended for acceptance the earned value management system used to track and
report costs of the WTP. This limited obligation or expense of no more than 90 percent
of the funds available.

A review of the earned value management system was conducted in November 2006 and
eight issues were identified. In February 2007, the WTP contractor submitted corrective
actions and those actions should be acceptable to resolve seven issues with only minor
revisions. The last issue has proved harder to resolve and, as a result, the certification of
the earned value management system by the end of the fiscal year may be in jeopardy.

Salt Waste Processing Facility will provide the high capacity treatment capability
necessary for removal of actinides, strontium and cesium from the more than 33 million
gallons of salt waste stored in aging underground waste tanks at the Savannah River Site
(SRS). SWPF operation is critical to meeting Federal Facility Agreement commitments
to remove waste from the 49 remaining SRS tanks, including the 22 tanks that do not
meet modern requirements for full secondary containment and leak detection.

The schedule for the project design has been slowed to address seismic issues, which
should be resolved in early May. In parallel, the contractor will complete baseline
development and that baseline will be validated upon satisfactory completion of an
external independent review. This baseline development and validation will support a
Fall 2007 Critical Decision 2 (CD-2), which will establish formally the project schedule
and cost estimate, against which we report our progress, and provide approval to proceed
to final project design.
At the SRS, this request will support ongoing nuclear material processing in H-Canyon and design of the plutonium vitrification project to support ultimate disposition. At Hanford, it supports consolidation of plutonium and unirradiated category 1 and 2 nuclear fuel to an off-site location, pending a consolidation decision. Consolidation of enriched uranium from INL to an off-site location, and design and long-lead procurement for the U-233 disposition project at the Oak Ridge Reservation are also supported in this request.

This request enables transuranic (TRU) waste projects to continue with priority for INL and Los Alamos National Laboratory (LANL) TRU waste. Other contact and remote-handled TRU shipments to the Waste Isolation Pilot Plant (WIPP) are also supported. Low-level radioactive waste and mixed low-level radioactive waste activities will be supported at Hanford, the Nevada Test Site (NTS), INL, SRS, and ORR.

The request will allow high-priority waste retrieval, soil and groundwater remediation, and decontamination and decommissioning (D&D) of excess facilities at Hanford, INL, SRS, ORR, and other sites. In addition, the request supports targeted technology development and deployment in support of high-level waste, soil and groundwater, and facility D&D.

With this budget request, EM will achieve our goals for risk reduction and cleanup completion at:

- Lawrence Livermore National Laboratory-Site 300, California
- Pantex Plant, Texas
- Sandia National Laboratory, New Mexico (calendar year 2008)

As cleanup work is completed at these sites with continuing missions, EM will transfer long-term surveillance and monitoring activities to the NNSA.

The FY 2008 budget request will allow the EM cleanup program to reduce risk, honor commitments and produce results worthy of the investment of the American people. We are committed to ensuring strong management of this complex cleanup work to secure safe and efficient progress that protects the public, our workers, and the environment. We have shown we can deliver meaningful results. Your continued support will allow us to deliver results important for today, as well as for generations to come.

**RISK REDUCTION RESULTS**

Recently, we celebrated another success at the completion ceremonies for the Fernald, Ashtabula and Columbus sites. It is the latest demonstration of our progress following the earlier completion of cleanup at Rocky Flats in Colorado, the Kansas City Plant in Missouri, and the Lawrence Livermore National Laboratory-Main Site in California. All
these completions should be recognized as results that have been borne from partnerships founded on mutual respect and collaboration.

EM has also made other significant progress:
- Stabilizing and packaging for disposition all plutonium residues, metals, and oxides (SRS and Hanford);
- Producing well over 2,000 cans of vitrified high-level waste from radioactive tank liquid wastes;
- Retrieving and packaging for disposal over 2,100 metric tons of spent nuclear fuel from the K-Basins on the Hanford site to protect the Columbia River;
- Characterizing, certifying, and shipping close to 37,000 cubic meters of TRU waste from numerous sites to WIPP for permanent disposal;
- Disposing of more than 965,000 cubic meters of legacy low-level waste and mixed low-level waste (contaminated with hazardous chemicals); and
- Eliminating 11 out of the 13 high-risk material access areas through material consolidation and cleanup.

In addition, on a site-specific level, we have:
- Completed disposal at WIPP of all legacy drummed TRU waste from SRS;
- Completed demolition of the 232-Z facility at Hanford;
- Completed cleanup at the Melton Valley area; and
- Completed the first remote-handled TRU waste shipments to the WIPP from INL.

SOLVING THE CHALLENGES

First and foremost, safety is our top priority. We will continue to maintain and demand the highest safety performance. We have taken measures to fully integrate safety into our project designs at an earlier stage while assuring our line project teams have the necessary experience, expertise, and training. Safety will remain a cornerstone in the execution of our mission objectives.

We are actively engaged, both within the Department and externally with our regulators and stakeholders, in identifying issues that impact our mission objectives. We have been challenged by lower than expected performance levels, increased scope, and unrealized planning assumptions. As we identify issues that could affect future performance and regulatory commitments, we are taking significant steps to improve our operations in planning and executing our work. We are applying lessons learned to help prevent future occurrences that will impact our planning and commitments.

One of my goals as Assistant Secretary is that at least 90 percent of our “projectized” portfolio will meet or exceed our cost and schedule targets. We have begun the process of integrating our management tools into our business processes. Over the past year, I have personally conducted Quarterly Performance Reviews of all EM projects with our leadership team. I report to you that we have showed progress, but we have yet to realize the full potential of implementing our management systems and better applying risk.
management principles—that is, identifying project uncertainties and developing mitigation measures. Some of our projects have fallen short of expected performance, but we are engaging our field management contractors with state-of-the-practice project management methods.

Over the last year, it has become apparent that we have not yet attained our full potential in our procurements, and in our execution of projects. We have instituted measures to strengthen our emphasis on program execution. This multi-year objective already is producing results that should provide more effective management in the future. This initiative is being coupled with additional training for federal managers and staff to enhance project management and acquisition skills. This integrated approach will deliver dividends for our managers in the long term.

We are improving our ability to ensure that proper procurement vehicles are available to meet our acquisition strategies. We are taking a new look at contract types and fee structures within our contracts. EM must acquire the best services including those of small business, to meet our business objectives and to become a top-performing organization.

I have asked my senior leadership at Headquarters and in the field to take immediate actions to ensure that everyday operating processes reflect lessons learned. Lastly, in conjunction with the National Academy of Public Administration, EM has undertaken a review of our organization and its associated functions and authorities. To date, the process has identified areas for improvement, along with some refinements of our organizational alignment. During the next few months, EM will be implementing the resulting recommendations to ensure we have an organizational structure that will enhance our ability to respond to the needs of the mission.

THE FY 2008 BUDGET REQUEST

The Department’s FY 2008 budget request for defense EM activities totals $5,364 million. The FY 2008 budget request reflects safety as its utmost priority. EM is committed to our safety principles and to maintaining the highest safety performance to protect the workers, the public and the environment.

The budget request reflects prioritizing program work to balance the goals of risk reduction; completing ongoing work to achieve completion at sites; and meeting our environmental commitments. For FY 2008, EM’s funding priorities are listed in order of risk, to best address our cleanup challenges:

- Requisite safety, security, and services across EM cleanup sites;
- Radioactive tank waste storage, treatment, and disposal;
- Spent nuclear fuel storage, receipt, and remediation;
- Other transuranic, low-level, and mixed low-level wastes treatment, storage, and disposal;
• Special nuclear materials storage, processing, and disposition;
• Soil and groundwater remediation; and
• D&D of contaminated facilities.

Examples of milestones and planned activities for FY 2008 by site-specific categories are:

Hanford

Richland

• Consolidate, package, and remove spent nuclear fuel and other radioactively-contaminated materials within the K Basins (K-East and K-West).

The K Basins project is a high priority, risk reduction activity due to its close proximity to the Columbia River. The goal of this project is removal of all spent nuclear fuel, radioactive sludge, contaminated K Basin water, and radioactive debris from the K Basins. The endpoint of the K Basins cleanup will mean the removal of more than 55 million curies of radioactivity that pose a threat of leakage to the surrounding environment, including the Columbia River.

• Amplify River Corridor remediation activities for Reactor Areas D, F, and H.

The River Corridor Closure Project will complete remediation of contaminated waste sites; the D&D and demolition of facilities that are adjacent to the Columbia River; and placement of eight reactors into an interim safe storage condition. The work performed within the River Corridor Closure Project includes digging up contaminated soil, constructing interim safe storage (cocooning) of the reactors, demolishing facilities in the old reactor complexes and facilities in the 300 Area, disposing of waste in the Environmental Restoration Disposal Facility, and constructing surface barriers or caps over contaminated sites.

• Continue retrieval of contact-handled suspect transuranic waste and scheduled shipments to WIPP.

The Hanford Site contains thousands of containers of suspect transuranic waste, low-level, and mixed low-level wastes. The end point of this project will include the retrieval of contact-handled suspect transuranic waste in the low-level burial grounds, the treatment of mixed low-level waste, the disposal of low-level waste, and certification and shipment of transuranic waste to WIPP.
• **Continues groundwater/vadose zone remediation activities.**

Due to forty years of weapon production processes, Hanford’s groundwater has been contaminated with carbon tetrachloride, chromium, technetium-99, strontium, and uranium plumes. EM is dedicated to preventing the potential for contaminates reaching the groundwater by: decommissioning an additional 100 unused groundwater wells; monitoring 700-plus wells for contaminants of concern above drinking water standards; and, commencing design of final remediation actions to address carbon tetrachloride and technetium plumes.

Office of River Protection

• **Sustain tank farm closure processes and maintain the tanks in a safe and compliant condition.**

The radioactive waste stored in Hanford tank farms has been accumulating since 1944. Due to the age of the tanks, a number have leaked in the past into surrounding soil and groundwater. In order to reduce the risk of future tank leaks into the environment, the overall objectives of this project include the stabilization of radioactive waste stored underground in tanks, including retrieval, treatment, disposal, and closure of the facilities.

• **Progress on path forward for the Waste Treatment and Immobilization Plant.**

The Waste Treatment and Immobilization Plant (WTP) is critical to the completion of the Hanford tank waste program by providing the primary facility to immobilize (vitrify) the radioactive tank waste at the Hanford Site. The WTP complex includes five facilities: the Pretreatment Facility, the High-Level Waste Facility, the Low-Activity Waste Facility, the Balance of Facilities, and the Analytical Laboratory. In FY 2008, the WTP project team plans to complete: close-in of the Annex building in the Low-Activity Waste Facility; installation of roofing and completion of the building shell for the Analytical Laboratory; construction of the water treatment building in the Balance of Facilities; and renewal of construction for the High-Level Waste Facility and the Pretreatment Facility.
Idaho

- **Transfer spent nuclear fuel from wet to secure dry storage.**

  Promote the safe and secure receipt, dry storage, and packaging and future transfer of the spent nuclear fuel to a Federal geologic repository at Yucca Mountain.

- **Continue shipments of transuranic waste to the WIPP.**

  Maintain program activities that support waste characterization, packaging, and transportation of remote-handled transuranic waste to WIPP that lead to reduced surveillance and operation costs.

- **Pursue ongoing sodium-bearing waste treatment facility construction, including efforts to gain necessary regulatory approvals for sodium bearing waste treatment and disposal.**

  The overall objective of this project is treatment and disposal of the sodium-bearing tank wastes, closure of the tank farm tanks, and performance of initial tank soils remediation work. Construction and operation of the sodium-bearing waste facility will reduce potential risk to human health and the environment by preventing the potential migration of contamination into the Snake River Plain Aquifer, which is a sole-source aquifer for the people of Southeastern Idaho.

LANL

- **Characterize, certify, and ship above-grade transuranic waste inventory.**

  The Solid Waste Stabilization and Disposition Project includes the treatment, storage, and disposal of legacy transuranic and mixed low-level waste generated between 1970 and 1999 at LANL. Final disposal of the legacy transuranic waste from LANL will reduce risk to workers, as well as reduce security costs associated with transuranic waste.

- **Promote soil and water remediation and monitoring.**

  The LANL Soil and Water Remediation Project’s objective is to identify, investigate and remediate, when necessary, areas with chemical or radiological contamination attributable to past Laboratory operations.

  In FY 2008, in order to fulfill the objective of protecting and monitoring the regional aquifer, as well as long-term surveillance and monitoring to provide necessary safeguards and protection for surface and ground waters, the following activities are planned:
- Perform groundwater monitoring at all major watersheds: LA/Pueblo; Mortandad; Canon de Valle; Sandia; and in close proximity to the major waste sites;
- Conduct stormwater sampling and implement erosion control measures;
- Install and monitor four wells in Pajarito and Bayo canyons; and
- Complete construction of 260 Outfall Corrective Measures for alluvial and surface water treatment system.

**Oak Ridge**

- **Continue design of U-233 down-blending project and begin Building 3019 modifications**

  Down-blending the Building 3019 inventory for disposition is in accordance with the national non-proliferation goals by making the U-233 material unsuitable for use in weapons and reducing security costs at the Oak Ridge National Laboratory.

- **Ship contact-handled transuranic waste to WIPP.**

  Process 250 cubic meters of contact-handled transuranic debris and 170 cubic meters of remote-handled transuranic debris with shipments to the WIPP; and continue to dispose of low-level/mixed low-level waste at the NTS.

- **Complete the Molten Salt Reactor Experiment fuel salt removal remediation project.**

  Upon completion of active remediation, surveillance and maintenance activities of the Molten Salt Reactor Experiment facility will be provided until decontamination and decommissioning of the site has occurred.

**Savannah River Site**

- **Consolidate on-site Plutonium to K Area.**

  In order to meet the Department’s Design Basis Threat criteria, plutonium at SRS is being consolidated into one Category 1 Special Nuclear Materials Storage Facility. The receipt, storage, and disposition of these special nuclear materials at the SRS allows for de-inventory and shutdown of other DOE complex sites, while providing substantial risk reduction and significant mortgage reduction savings to the Department.

- **Ship all legacy transuranic waste to WIPP and treat low-level waste and mixed low-level waste.**
In FY 2008, SRS plans to dispose of transuranic waste previously characterized as mixed low-level waste; dispose of low-level waste and newly generated waste, including soil, groundwater and decontamination and decommissioning wastes; dispose of mixed low-level waste inventory and newly generated waste; and dispose of hazardous waste inventories, thus reducing potential exposure to project workers.

The end-state for this project is the shipment of all legacy transuranic waste to the WIPP, the treatment of PUREX waste, and the elimination of all legacy inventories and disposition of newly generated low-level waste, mixed low-level waste, and hazardous waste.

- **Continue groundwater corrective actions across the Site.**

SRS is working to prevent the spread of contamination into adjoining groundwater aquifers and nearby surface waters. Existing contamination in vadose zones, groundwater and surface water sediments are currently being cleaned up, thereby reducing the risk to site workers, the public and the environment.

- **Treat, stabilize, and dispose legacy radioactive waste stored in underground storage tanks.**

The continuation of the design and construction of the Salt Waste Processing Facility will aid the Defense Waste Processing Facility in the process of safely disposing of the liquid tank wastes. The Salt Waste Processing Facility will separate the high-activity fraction from the low-activity fraction of the salt waste stored in the underground tanks at the SRS. The completion of the Salt Waste Processing Facility will support the mission of SRS in meeting its Federal Facilities Agreement commitments for waste tank disposition.

**WIPP**

- **Operate the WIPP in a safe manner to support disposal capabilities for transuranic waste.**

The WIPP in Carlsbad, New Mexico, is the nation’s only mined geologic repository for the permanent disposal of defense-generated transuranic waste. All of the defense-generated transuranic waste from eligible generator sites must come to WIPP for receipt, handling, and disposal.
CONCLUSION

The FY 2008 budget request enables risk reduction to continue. Challenges lie ahead but we are focused on our objectives and our strategy. Safety, performance, cleanup, and closure underpin our actions and initiatives. We are committed to work with all interested parties to resolve issues. We look forward to continuing to work with this subcommittee and the Congress to address your concerns and interests. Our success relies on our effective partnerships with our regulators, the communities, and our contractors to produce progress in accomplishing meaningful results for the American public.

I look forward to a continuing dialog with you and the subcommittee. This concludes my formal statement for the record. I will be pleased to answer any questions at this time.