



August 31, 2012  
AET 12-0048

ATTN: Document Control Desk  
Ms. Christiana Lui, Director  
Division of Security Policy  
Office of Nuclear Security and Incident Response  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

**American Centrifuge Plant**  
**Docket Number 70-7004; License Number SNM-2011**  
**Submission of Changed Pages of the Emergency Plan for the American Centrifuge Plant**

Dear Ms. Lui:

**Purpose**

In accordance with 10 *Code of Federal Regulations* (CFR) 70.32(i), USEC Inc. (USEC) hereby submits to the U.S. Nuclear Regulatory Commission (NRC) changed pages of the Emergency Plan for the American Centrifuge Plant (ACP) as Enclosure 1 of this letter.

**Background**

Currently, the NRC-accepted Emergency Plan in effect at the U.S. Department of Energy reservation in Piketon, Ohio is USEC-02, *Portsmouth Gaseous Diffusion Plant (PORTS) Emergency Plan*, which USEC credited within Chapter 8.0 of the License Application for the Lead Cascade Facility. Changed pages for this site-wide Emergency Plan are currently submitted to the affected off-site response organizations in accordance with 10 CFR 70.32(i) and will remain effective until implementation of the Emergency Plan for the ACP. Upon full implementation of the new site-wide Emergency Plan and in accordance with 10 CFR 70.32(i), USEC will begin supplying changed pages to the affected off-site response organizations through the controlled distribution process.

**Discussion**

The changes noted in Enclosure 1 were reviewed in accordance with 10 CFR 70.32 and determined not to decrease the effectiveness of the applicable plan. Revision bars in the right hand margin depict changes from the previous revision submitted to the NRC.

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**Action**

No specific action is requested concerning this submittal.

**Contact**

If you have any questions regarding this matter, please contact me at (301) 564-3470 or Vernon J. Shanks at (740) 897-2343.

Sincerely,



Peter J. Miner  
Director, Nuclear Safety and Safeguards

Enclosure: As Stated

cc: J. Calle, NRC Region II  
J. Downs, NRC HQ  
L. Pitts, NRC Region II  
O. Siurano, NRC HQ  
B. Smith, NRC HQ

direction from the IC or the Crisis Manager. The mobile communications vehicle may also be used as an alternate EOC.

The X-1020 building serves as a focal point for security activities during an emergency. The X-1020 building is operated on a 24-hour basis. The Security Console Operator is responsible for coordinating activities and communications. The Security Console Operator performs the following functions:

- Dispatches Protective Personnel,
- Maintains communications with the Protective Personnel at the emergency scene,
- Advises Protective Personnel management, and
- Advises the EOC staff.

Note: The Security Console Operator may have additional resources to direct in the event of a site-wide emergency. These resources will be Protective Personnel. In an emergency the Security Console Operator directs the initial response of all resources.

#### **6.1.5 Decontamination Facilities**

The primary facilities for personnel decontamination are the plant medical facility and X-1007 Fire Station, both operated by the United States Enrichment Corporation. Resources and provisions for the decontamination of vehicles and equipment are maintained. Decontamination equipment is designed and equipped to handle potential decontamination requirements identified during an emergency.

#### **6.1.6 Joint Public Information Center**

The JPIC is the designated location for the dissemination of official information about the emergency to the media and to the public. JPIC operations are described in designated procedures. The JPIC accommodates the following:

- Coordination of information with interfacing Federal, State, and local organizations and spokespersons;
- Press releases and media briefings; and
- Work space for JPIC personnel, interfacing organization personnel, and representatives of the news media.

The JPIC is located at the Word Alive Fellowship as shown in Figure 1-4 of this plan.

### **6.2.3 Mobile Communications Vehicle**

In addition to the fixed communications system, a mobile communications vehicle is available to provide communications support during any on- or off-site emergency. When the vehicle is activated, a three-person crew provides round-the-clock operation of the vehicle's communications and technical functions, security, and on-board power source. This provides a remote communications capability.

### **6.3 On-site Medical Facilities**

The plant medical facility is operational during the day shift, Monday through Friday excluding holidays. The medical facility has supplies, equipment, and personnel to treat most injuries. Medical personnel assess patient condition, provide emergency care, and determine appropriate supplemental treatment. Medical personnel are capable of treating contaminated individuals.

Medical coverage is maintained consistent with the activities being conducted on-site. In an emergency, off-duty medical personnel are notified and directed to required locations as needed. The IC notifications include alerting appropriate occupational health services and medical personnel in the event of emergencies ranging from industrial accidents to toxic or radiological releases. Letters of Agreement are maintained with area hospitals. These off-site hospitals also have facilities, equipment, and supplies for the treatment of contaminated individuals.

Supplies, equipment, and trained personnel are available to treat most injuries. This includes capabilities for the treatment of contaminated individuals including a shower for contaminated ambulatory patients, radiation survey instruments, and decontamination supplies. Emergency response personnel assess patient condition, provide necessary emergency care, and determine appropriate supplemental treatment.

Emergency medical technicians provide ambulance service on-site. Additional ambulance support is available from off-site. Emergency air ambulance service is also available upon request for transport of injured non-contaminated personnel.

### **6.4 Emergency Monitoring Equipment**

Various types of radiation detection equipment for normal and emergency response use are maintained on-site. Criticality accident alarms have been placed in those areas and facilities containing fissile material. The CAAS provides for radiation detection and an alarm system to alert personnel.

Persons requiring radiation exposure monitoring wear beta-gamma-sensitive dosimeters, which are processed and evaluated by a processor holding current accreditation from the National Voluntary Laboratory Accreditation Program of the National Institute of Standards and Technology. The dosimeters are exchanged and analyzed in accordance with Radiation

## **4.0 RESPONSIBILITIES**

The Licensee is responsible for overall direction and control of emergency response activities on the DOE reservation. The Licensee is also required to provide site-wide emergency response services to the DOE.

### **4.1 Licensee**

As described in Chapter 2.0 of the license application, the Vice President, Enrichment Operations is ultimately responsible for the safe operation of Licensee activities on the DOE reservation. The General Manager, American Centrifuge Plant Operations is responsible for the day-to-day management of Licensee activities on the reservation, including the ERO. The ACP Manager, Enrichment Operations and the GDP Plant Manager are responsible for day-to-day operation of the respective uranium enrichment plants. Administrative and technical support personnel are normally on-site daily, Monday through Friday, holidays excluded. Operational personnel are on duty 24 hours per day. The Plant Services Manager is responsible for maintaining the Emergency Plan.

Per plant procedures, the IC is responsible for making proper notifications of abnormal conditions, determining the severity of the event declaring an emergency, and initiating appropriate response. (The IC duties are assumed by the on-duty PSS.) The IC provides command and control over the specific incident area response based upon input from operations personnel. The IC acts as the on-scene IC and subsequently as the Crisis Manager until relieved by a member of management designated in the Emergency Line of Executive Succession. The General Manager, American Centrifuge Plant Operations, or designee, becomes the Crisis Manager and is authorized to declare an emergency, initiate the appropriate response, and assign a Recovery Manager when emergency conditions no longer exist. (The duties and responsibilities of the Recovery Manager are addressed in Section 9.0 of this plan.)

### **4.2 On-site Emergency Response Organization**

The ERO is responsible for taking immediate mitigative and corrective actions to minimize the consequences of an incident to workers; public health and safety; and the environment. The ERO is staffed with trained personnel who respond to events and are required to participate in training, drills, and exercises. The incident type and severity dictate the level of ERO activation.

The ERO has the following specific functions and responsibilities, depending on the incident and level of response needed to mitigate the problem:

- Event categorization;
- Notification;
- Protective action recommendations;