

LOUISIANA ENERGY SERVICES
Environmental Report
Push-Pull Instructions
Revision 15, April 11, 1994

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NOTES:

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- 2) The "List of Effective Pages" contains the latest revision and date of the revision affecting the page.
- 3) All changes or additions to text of each document are indicated by a sidebar (|) in the right hand margin. In the case of deletion of text, the sidebar appears in the right hand margin with a perpendicular line towards the text (⊥) indicating where material was deleted.

Louisiana Energy Services

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4.5 RADIOACTIVE MATERIAL MOVEMENT

The transportation of radioactive materials may have environmental effects. In this section a description is provided of the uranium feed to be used, the quantities of radioactive materials transported to and from the site, and the radioactive wastes from the site.

4.5.1 URANIUM FEED

The uranium feed for the Claiborne Enrichment Center (CEC) is natural uranium in the form of uranium hexafluoride (UF₆). No reprocessed uranium is used as feed material for the facility. The uranium hexafluoride (UF₆) is transported to the facility in 48X or Y cylinders. These cylinders are designed, fabricated, and shipped in accordance with American National Standard (ANSI) N14.1-1987, Uranium Hexafluoride - Packaging For Transport. Feed cylinders are transported to the site by modified flat bed truck, two per truck. Therefore, a maximum of 55,120 pounds (27,560 pounds per cylinder) is transported per truck. There are approximately 374 feed cylinders or 187 shipments of feed cylinders per year.

4.5.2 URANIUM PRODUCT

The product of the CEC is transported in 30B cylinders. These cylinders are designed, fabricated and shipped in accordance with American National Standard (ANSI) N14.1-1987, Uranium Hexafluoride - Packaging For Transport. Product cylinders are transported from the site to fuel fabrication facilities by modified flat bed truck, typically two per truck although up to 5 product cylinders could be transported on the same truck. Therefore, a maximum of 25,100 pounds (5,020 pounds per cylinder) of enriched uranium could be transported per shipment. There are approximately 380 product cylinders shipped per year.

4.5.3 URANIUM WASTES

Detailed descriptions of radioactive waste materials which will be shipped from the CEC facility for disposal are presented in Section 3.3. Table 3.3-8 presents a summary of these waste materials.

4.5.4 TRANSPORTATION

The feed and product materials of the facility will be transported by truck. Feed material is obtainable from UF₆ conversion facilities near Gore, Oklahoma and Metropolis, Illinois. The product could be transported to fuel fabrication facilities near Hanford, Washington; Columbia, South Carolina; Wilmington, North Carolina; Windsor, Connecticut; Lynchburg, Virginia; or Hematite, Missouri. The designation of the supplier

PREOPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

(a) This table presents an acceptable minimum program for a site at which each entry is applicable. The program may be enhanced at any time. The code letters in parenthesis (i.e., AP1, SW2) provide one way of defining generic sample locations and can be used to identify the specific locations during the designation of each sample site.

(b) Sufficient volumes of samples will be collected when available, using accurate sample collection methods to ensure the attainment of Lower Limits of Detecting as specified in Table 6.1-4.

(c) Samples collected will be sent to an appropriate laboratory for analysis via a reliable shipping organization. A sample transmittal form will accompany the samples. Samples will be packaged in a manner to ensure the integrity of each during transit. Perishable samples shall be refrigerated as soon as possible by the receiving laboratory. Samples requiring analysis as a composite will be stored in a manner to ensure the integrity of the sample until the composite analysis has been performed.

(d) Air particulate samples will be collected on filters attached to continuously operating air samplers. Samples are to be collected weekly and analyzed for gross alpha after each collection. Radon and thoron daughter decay shall be allowed prior to gross alpha analysis. If gross alpha action levels are exceeded, isotopic analysis shall be performed.

(e) Soil samples will be collected using scoops, shovels, etc. as appropriate. Collect the top surface of the soil, not to reasonably exceed a depth of two to four inches.

(f) Sectors shall be combined thusly:

- Composite 1 = sectors N, NNE, NE, ENE
- Composite 2 = sectors E, ESE, SE, SSE
- Composite 3 = sectors S, SSW, SW, WSW
- Composite 4 = sectors W, WNW, NW, NNW

SUMMARY OF RADIOLOGICAL ENVIRONMENTAL MONITORING
SAMPLING SITES - OPERATIONAL PROGRAM
footnotes

(a) This table presents an acceptable minimum program for a site at which each entry is applicable. The program may be enhanced at any time. The code letters in parenthesis (i.e., AP1, SW2) provide one way of defining generic sample locations and can be used to identify the specific locations during the designation of each sample site.

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(f) Sectors shall be combined thusly:

Composite 1 = sectors N, NNE, NE, ENE
Composite 2 = sectors E, ESE, SE, SSE
Composite 3 = sectors S, SSW, SW, WSW
Composite 4 = sectors W, WNW, NW, NNW

(g) Representative vegetation samples will be obtained as they are available (seasonal variations may occur). If no vegetation sample is available, obtain the sample at a location as near as possible (within the same sector) to the designated site.