



July 19, 2006  
GDP 06-2026

Mr. Jack R. Strosnider  
Director, Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555-0001

**Portsmouth Gaseous Diffusion Plant (PORTS)  
Docket No. 70-7002; Certificate No. GDP-2  
Submission of NRC Form 327, "Special Nuclear Material (SNM) and Source Material (SM)  
Physical Inventory Summary Report"**

INFORMATION TRANSMITTED HEREWITH IS PROTECTED FROM PUBLIC  
DISCLOSURE AS CONFIDENTIAL COMMERCIAL OR FINANCIAL  
INFORMATION AND/OR TRADE SECRETS PURSUANT TO 10 CFR 2.390(d)(1)

Dear Mr. Strosnider:

As required by 10 CFR 74.17(a) and the Fundamental Nuclear Material Control Plan (FNMCP), the United States Enrichment Corporation (USEC) is submitting to the United States Nuclear Regulatory Commission (NRC), the SNM and SM Physical Inventory Summary Report for the Portsmouth, Ohio, Gaseous Diffusion Plant. The Form 327 covers the inventory period April 5, 2006 through May 31, 2006. This inventory was taken at 1400 hours on May 31, 2006.

- Enclosure 1 includes inventory data for the Portsmouth plant.
- Enclosure 2 provides additional notes regarding the inventory data.

Enclosures 1 and 2 contain information concerning USEC's material control and accounting program for special nuclear material at the plant. As such, Enclosures 1 and 2 contain confidential commercial or financial information that is exempt from public disclosure pursuant to Section 1314 of the Atomic Energy Act of 1954, as amended, and 10 CFR 2.390(a)(4), 2.390(d)(1) and 9.17(a)(4). USEC hereby requests that Enclosures 1 and 2 be withheld from public disclosure based on 10 CFR 2.390(d), which states, in part:

The following information shall be deemed to be commercial or financial information within the meaning of 9.17(a)(4) of this chapter and shall be subject to disclosure only in accordance with the provisions of 9.19 of this chapter.

United States Enrichment Corporation  
Portsmouth Gaseous Diffusion Plant, P.O. Box 628, Piketon, OH 45661  
Telephone 740-897-2331 Fax 740-897-2909 <http://www.usec.com>

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- (1) Correspondence and reports to or from the NRC which contain information or records concerning a licensee's or applicant's physical protection or material control and accounting program for special nuclear material not otherwise designated as Safeguards Information or classified as National Security Information or Restricted Data.

There are no new commitments contained in this submittal. Should you have any questions or comments on the enclosed information, please contact John Oyer at (740) 897-2182.

Sincerely,

A handwritten signature in black ink that reads "Gary Workman". The signature is written in a cursive style with a long horizontal line extending to the right.

Gary Workman  
Manager, Nuclear Regulatory Affairs

Enclosures: As Stated

cc: J. Henson, Chief, Fuel Facility Inspection, NRC Region II  
T. Pham, Office of Nuclear Security and Incident Response  
M. Thomas, NRC Senior Resident Inspector, PGDP  
D. Martin, NRC Project Manager – PORTS & PGDP