
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of Earliest Event Reported):

August 30, 2007

USEC Inc.

(Exact name of registrant as specified in its charter)

Delaware

1-14287

52-2107911

(State or other jurisdiction
of incorporation)

(Commission
File Number)

(I.R.S. Employer
Identification No.)

2 Democracy Center, 6903 Rockledge Drive,
Bethesda, Maryland

20817

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code:

(301) 564-3200

Not Applicable

Former name or former address, if changed since last report

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 1.01 Entry into a Material Definitive Agreement.

On August 30, 2007, USEC Inc. ("USEC" or the "Company") entered into a contract with Major Tool and Machine, Inc. ("Major Tool") for the manufacture of steel casings for centrifuge machines to be used in USEC's American Centrifuge uranium enrichment plant in Piketon, Ohio. Major Tool provided the casings for the Company's lead cascade of centrifuge machines.

Under the agreement, Major Tool will increase its manufacturing capacity and USEC will purchase from Major Tool approximately 11,500 steel casings for centrifuge machines expected to be deployed in the American Centrifuge plant. The agreement provides for a fixed price for the casings, with a provision for escalation (or de-escalation) related to a third party index for the price of steel. Payment is due upon delivery of the casings. In addition, USEC will pay for certain costs associated with the purchase of equipment and other items needed for manufacturing. The contract period of performance runs through December 31, 2012.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

September 4, 2007

USEC Inc.

By: */s/ John C. Barpoulis*

*Name: John C. Barpoulis
Title: Senior Vice President and Chief Financial Officer
(Principal Financial Officer)*