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Item 1.01 Entry into a Material Definitive Agreement.

On September 24, 2008, USEC Inc. ("USEC" or the "Company") entered into a contract with Fluor Enterprises, Inc. ("Fluor") a subsidiary of Fluor Corporation to provide engineering, procurement, construction and construction management services for USEC's American Centrifuge plant.

In May 2004 Fluor was awarded a contract to provide such services for USEC's lead cascade and for the initial design and construction of the American Centrifuge Plant on a cost plus fixed fee basis.

Under the new contract, Fluor will be reimbursed for costs plus a fixed fee. Fluor also can earn incentive fee based on cost savings. Fluor's incentive fee may be reduced if it fails to meet certain safety performance standards. The contract provides for an estimated total cost including fixed and incentive fee of approximately \$1.02 billion to \$1.12 billion. This cost estimate is consistent with the previously announced \$3.5 billion budget for the American Centrifuge Project. Included in the estimated cost of the contract is approximately \$466 million which, as of August 31, 2008 has already been invoiced and paid or has already been contracted for through Fluor for material and equipment from other suppliers.

Under the contract, USEC will make weekly payments based on actual costs incurred and invoiced by Fluor. Prior to completion of the contract, USEC may terminate the contract for convenience and is liable for all costs incurred but not previously paid, including liability for termination of Fluor's subcontractors, plus a percentage of Fluor's fixed fee and a termination fee equal to a percentage of the costs incurred for work completed.

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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 25, 2008

USEC Inc.

By: */s/ John C. Barpoulis*

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