

August 26, 2013

MEMORANDUM TO: Anthony T. Gody, Director
Division of Fuel Facility Inspections

FROM: Marissa G. Bailey, Director /RA/
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

SUBJECT: APPROVAL OF WITHDRAWAL OF U.S. NUCLEAR
REGULATORY COMMISSION RESIDENT
INSPECTOR AND ADJUSTMENT TO THE CORE
INSPECTION PROGRAM FOR THE PADUCAH
GASEOUS DIFFUSION PLANT

In your letter dated August 7, 2013 (Agencywide Documents Access and Management System Accession Number ML13220A053), you requested that the U.S. Nuclear Regulatory Commission (NRC) resident inspector be removed from the Paducah Gaseous Diffusion Plant no later than September 30, 2013, due to significant changes in current and planned activities. The staff determined these activities to be similar in risk to operations at a uranium conversion facility with additional aspects in the areas of Material Control and Accounting, Security, INFOSEC, and Criticality Safety. Additionally, you requested an adjustment to the Paducah core inspection effort due to the cessation of enrichment activities at the site.

On June 3, 2013, U.S. Enrichment Corporation (USEC) officially notified the Commission of their termination of uranium enrichment activities in accordance with the requirements specified in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 76 (10 CFR 76.66(b)). USEC is expected to continue operations into calendar year 2014, to include managing inventory, shipping customer orders, and turnover activities to return leased property to Department of Energy (DOE).

As of July 26, 2013, the plant has shut down the last cell motors and there are no cascade motors operating. As of July 30, 2013, building C-310 product withdrawal facility is operating to fill feed cylinders via vapor transfer from the C-337A vaporizer. This activity is being performed to transfer feed material from 48G to 48Y cylinders. The C-315 tails withdrawal facility will soon be used for the same purpose. The C-360 facility is performing product transfers from 10 ton cylinders to 30b cylinders. USEC expects the repackaging to continue until sometime in January 2014.

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FUEL FACILITY INSPECTION PROGRAM (CORE)

Functional Areas	Procedure	GDP Current Program		Uranium Conversion		GDP Proposed Program		Change Hours
		Inspections per year	Hours	Inspections per year	Hours	Inspections per year	Hours	
Fuel Facility Inspection Program (CORE)								
Operations	88020	1	24	2	60	1	24	0
Operations	92702	As Needed		As Needed		As Needed		0
Crit. Safety	88015	2	59.5	N/A	N/A	1	15.5	-44
Crit. Safety	88016	2	68	N/A	N/A	1	16	-52
Crit. Safety	88017	1	0.5	N/A	N/A	1	0.5	0
Fire Protection	88055(A)	1	32	1	32	1	32	0
Fire Protection	88054(T)	1*	21	1*	64	1*	21	0
MC&A	IMC 2683	1	64	N/A	N/A	2	64	0
Physical Protection	PS4/5	1	8	1	24	1	8	0
INFOSEC						No Change	No Change	0
Rad. Prot.	88030	1	32	1	24	1	24	-8
Env. Prot.	88045	1	24	1	24	1	24	0
Waste Mgmt.	88035	1	12	1	12	1	12	0
Transportation	86740(T)	1	16	1	16	1	16	0
Maint./Surv.	88025	1	20	1	24	1	24	+4
Training	88010	1	12	1	12	1	12	0
Emergency Preparedness	88050(P)	1	30	1	30	1	30	0
Emergency Preparedness	88051(D)	1	16	1	32	1	16	0
Mods	88070	1	40	1	40-120	1	10-40	-30 to 0
Mgmt. Org. and Controls	88005	1	16	1	16	1	16	0
Resident Inspection Program								
Plant Operations	88100 (OPNS)	N/A	766	N/A	N/A	0	0	-766
Configuration Control	88101 (CC)	N/A	0	N/A	N/A	0	0	0
Surveillance Operations	88102 (SURV)	N/A	20	N/A	N/A	0	0	-20
Maintenance Observations	88103 (MAINT)	N/A	40	N/A	N/A	0	0	-40
Management Organization and Controls	88105 (MO&C)	N/A	24	N/A	N/A	0	0	-24

*Fraction allocated every year for the triennial fire protection inspection