



May 17, 2005
GDP 05-0022

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

Paducah Gaseous Diffusion Plant (PGDP)
Portsmouth Gaseous Diffusion Plant (PORTS)
Docket Nos. 70-7001 and 70-7002
Certificate Nos. GDP-1 and GDP-2
Submittal of Environmental Compliance Status Report (ECSR) Related Information

Dear Mr. Strosnider:

On January 16, 2001, representatives from USEC and the NRC Staff met at NRC headquarters to discuss the Environmental Compliance Status Report (ECSR) contained in Volume 3 of the PGDP and PORTS Certification Applications. As a result of this January meeting, USEC committed (See the Reference) to provide copies of the PGDP and PORTS Quarterly Radiological Monitoring Discharge Reports for plant outfalls. Enclosures 1 and 2 provide the first quarter calendar year 2005 reports for PGDP and PORTS, respectively.

Should you have any questions or require additional information, please contact Mark Smith at (301) 564-3244. There are no new commitments contained in this submittal.

Sincerely,

Steven A. Toelle
Director, Nuclear Regulatory Affairs

Handwritten note: NMSS01

Mr. Jack R. Strosnider
May 17, 2005
GDP 05-0022, Page 2

Reference: Letter from Steven A. Toelle (USEC) to Mr. Michael F. Weber (NRC), Paducah Gaseous Diffusion Plant (PGDP), Portsmouth Gaseous Diffusion Plant (PORTS), Docket Nos. 70-7001 and 70-7002, "Environmental Compliance Status Report (ECSR) Related Information", GDP 01-0018, dated March 26, 2001.

Enclosures: 1. PGDP Quarterly Radiological Discharge Monitoring Report-First Quarter 2005
2. PORTS Quarterly Radiological Discharge Monitoring Report-First Quarter 2005

cc: J. Henson, Chief, Fuel Facility Inspection, NRC Region II
B. Bartlett, NRC Senior Resident Inspector, PGDP
D. Martin, NRC Project Manager

Enclosure 1
GDP 05-0022
10 Pages Total

**PGDP Quarterly Radiological Discharge Monitoring Report
First Quarter 2005**

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
2 DEMOCRACY CTR 6903 ROCKLEDGE
BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083
 PERMIT NUMBER

002-2
 DISCHARGE NUMBER


LIFT STATION 002 BYPASS
 (SUBR PA) MCCRACKEN
 F - FINAL
 MAJOR ATTACHMENT 6

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	05	01	01		05	03	31

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
TECHNETIUM-99, TOTAL 22100 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL	(19)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	PCI/L		QTRLY	GRAB
URANIUM, NATURAL, TOTAL 22708 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.0050	0.0050	(19)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL	(2F)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	ACUTE TOXICITY		QTRLY	GRAB
METALS, TOTAL 78240 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.6100	0.6100	(19)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER VERNON SHANKS, USEC WASTE MGNT/ENV COMP MGR TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			270	441-6039	05	04	21
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

C-611 WATER TREATMENT PLANT (SUBR PA) MCCRACKEN F - FINAL MAJOR

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
 2 DEMOCRACY CTR 6903 ROCKLEDGE
 BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083 PERMIT NUMBER

006-2 DISCHARGE NUMBER


MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
05	01	01	05	03	31

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

ATTN: MGR WASTE MGNT/ENV COMP

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL	(2F)	0	2/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY-MX	ACUTE TOXCTY		OTRLY	GRAB
METALS, TOTAL 78240 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	1.0000	1.0000	(19)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY-MX	MG/L		OTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
VERNON SHANKS, USEC WASTE MGNT/ENV COMP MGR TYPED OR PRINTED			270 441-6039	05	04	21

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
 2 DEMOCRACY CTR 6903 ROCKLEDGE
 BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083
 PERMIT NUMBER

008 2
 DISCHARGE NUMBER

COMBINED WASTEWATERS
 (SUBR PA) MCCRACKEN
 F - FINAL
 MAJOR

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
05	01	01		05	03	31

*** NO DISCHARGE [] ***

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TECHNETIUM-99, TOTAL 22100 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	BDL	BDL	PCI/L	0	2/90	GRAB
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX			QTRLY	GRAB
URANIUM, NATURAL, TOTAL 22708 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	0.0230	0.0330	(19) MG/L	0	2/90	GRAB
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX			QTRLY	GRAB
TOXICITY, FINAL CONC 61406 1 0 1 EFFLUENT GROSS VALUE	*****	*****	****	*****	BDL	BDL	(2G) CHRONC TOXCTY	0	1/90	COMP
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX			QTRLY	COMP
METALS, TOTAL 78240 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	0.6800	0.6800	(19) MG/L	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX			QTRLY	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER VERNON SHANKS, USEC WASTE MGNT/ENV COMP MGR TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY NOUITY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE	DATE			
		270 441-6039	05	04	21	
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>V. J. Shanks</i>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS: (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
2 DEMOCRACY CTR 6903 ROCKLEDGE
BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083
 PERMIT NUMBER

009 2
 DISCHARGE NUMBER

COMBINED WASTEWATERS
 (SUBR:PA) MCCRACKEN
 F - FINAL
 MAJOR

MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
05	01	01	05	03	31	

*** NO DISCHARGE [] ***

NOTE: Read instructions before completing this form.

ATTN: MGR WASTE MGNT/ENV COMP

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
TECHNETIUM-99. TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL		0	2/90	GRAB
22100 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	PCI/L		QTRLY	GRAB
EFFLUENT GROSS VALUE											
URANIUM, NATURAL, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	0.0020	0.0020	(19)	0	2/90	GRAB
22708 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
EFFLUENT GROSS VALUE											
TOXICITY, FINAL CONC	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL	(2G)	0	1/90	COMP
TOXICITY UNITS	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	CHRONC TOXCTY		QTRLY	COMP
61406 1 0 1											
EFFLUENT GROSS VALUE											
METALS, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	0.8600	0.8600	(19)	0	1/90	GRAB
78240 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
EFFLUENT GROSS VALUE											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
VERNON SHANKS, USEC
WASTE MGNT/ENV COMP MGR
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

V. J. Shanks
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT.

TELEPHONE 270 441-6039 DATE 05 04 21
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
2 DEMOCRACY CTR 6903 ROCKLEDGE
BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083
 PERMIT NUMBER

010 2
 DISCHARGE NUMBER

COMBINED WASTEWATERS
 (SUBR PA) MCCRACKEN
 F - FINAL
 MAJOR

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
05	01	01		05	03	31

*** NO DISCHARGE [] ***

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
TECHNETIUM-99, TOTAL 22100 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	106.2000	173.0000		0	2/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	PCI/L		QTRLY	GRAB
URANIUM, NATURAL, TOTAL 22708 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.0475	0.0800	(19)	0	2/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 1 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL	(2G)	0	1/90	COMP
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	CHRON TOXCT		QTRLY	COMP
METALS, TOTAL 78240 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	2.3000	2.3000	(19)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER VERNON SHANKS, USEC WASTE MGNT/ENV COMP MGR	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE 270 441-6039	DATE			
			05	04	21	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Vernon Shanks</i>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
2 DEMOCRACY CTR 6903 ROCKLEDGE
BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410
 ATTN: MGR WASTE MGNT/ENV COMP

KY0102083
 PERMIT NUMBER

011 2
 DISCHARGE NUMBER


LIFT STATION 011 BYPASS
 (SUBR PA) MCCRACKEN
 F - FINAL
 MAJOR

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
05	01	01		05	03	31

*** NO DISCHARGE [] ***

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TECHNETIUM-99, TOTAL 22100 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL		0	12/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	PCI/L		QTRLY	GRAB
URANIUM, NATURAL, TOTAL 22708 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.0582	0.1100	(19)	0	12/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL	(2F)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	ACUTE TOXCTY		QTRLY	GRAB
METALS, TOTAL 78240 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.3290	0.3290	(19)	0	1/90	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER VERNON SHANKS, USEC WASTE MGNT/ENV COMP MGR TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSONS OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	- TELEPHONE		DATE		
			270	441-6039	05	04	21
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
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2 DEMOCRACY CTR 6903 ROCKLEDGE
BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083
 PERMIT NUMBER

012 2
 DISCHARGE NUMBER

LIFT STATION 012 BYPASS
 (SUBR PA) MCCracken
 F - FINAL
 MAJOR

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
05	01	01		05	03	31

*** NO DISCHARGE [] ***

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ATTN: MGR WASTE MGNT/ENV COMP

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
TECHNETIUM-99, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL		0	1/90	GRAB
22100 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT	REPORT			QTRLY	GRAB
EFFLUENT GROSS VALUE						30DA AVG	DAILY MX	PCI/L			
URANIUM, NATURAL, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	0.0080	0.0080	(19)	0	1/90	GRAB
22708 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT	REPORT			QTRLY	GRAB
EFFLUENT GROSS VALUE						30DA AVG	DAILY MX	MG/L			
TOXICITY, FINAL CONC	SAMPLE MEASUREMENT	*****	*****	****	*****	0.5850	1.1700	(2F)	0	2/90	GRAB
TOXICITY UNITS	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT	REPORT	ACUTE		QTRLY	GRAB
61406 1 0 0						30DA AVG	DAILY MX	TOXCTY			
EFFLUENT GROSS VALUE											
METALS, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	1.0100	1.0100	(19)	0	1/90	GRAB
78240 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT	REPORT			QTRLY	GRAB
EFFLUENT GROSS VALUE						30DA AVG	DAILY MX	MG/L			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 VERNON SHANKS USEC
 WASTE MGNT/ENV COMP MGR
 TYPED OR PRINTED

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Vernon Shanks
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 270 441-6039
 DATE 05 04 22
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
2 DEMOCRACY CTR 6903 ROCKLEDGE
BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083
 PERMIT NUMBER

013 2
 DISCHARGE NUMBER

STORMWATER RUNOFF
 (SUBR PA) MCCRACKEN
 F - FINAL
 MAJOR

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
05	01	01		05	03	31

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

ATTN: MGR WASTE MGNT/ENV COMP

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TECHNETIUM-99, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL		0	1/90	GRAB
22100 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	PCI/L		QTRLY	GRAB
URANIUM, NATURAL, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	0.0020	0.0020	(19)	0	1/90	GRAB
22708 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
TOXICITY, FINAL CONC	SAMPLE MEASUREMENT	*****	*****	****	*****	BDL	BDL	(2F)	0	1/90	GRAB
TOXICITY UNITS	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	ACUTE TOXCTY		QTRLY	GRAB
61406 1 0 0											
EFFLUENT GROSS VALUE											
METALS, TOTAL	SAMPLE MEASUREMENT	*****	*****	****	*****	1.8200	1.8200	(19)	0	1/90	GRAB
78240 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
EFFLUENT GROSS VALUE											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER VERNON SHANKS, USEC WASTE MGNT/ENV COMP MGR	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE	DATE			
		270 441-6039	05	04	21	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

NAME USEC PGDP
 ADDRESS C/O US ENRICHMENT CORP
2 DEMOCRACY CTR 6903 ROCKLEDGE
BETHESDA MD 20817
 FACILITY USEC PGDP
 LOCATION PADUCAH KY 42001-1410

KY0102083
 PERMIT NUMBER

016 2
 DISCHARGE NUMBER


FIRE PROTECTION WATER
 (SUBR PA) MCCRACKEN
 F - FINAL
 MAJOR

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
05	01	01		05	03	31

*** NO DISCHARGE [] ***

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TECHNETIUM-99, TOTAL 22100 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	BDL	BDL	PCI/L	0	1/90	GRAB	
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX			OTRLY	GRAB	
URANIUM, NATURAL, TOTAL 22708 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	0.0030	0.0030	(19)	0	1/90	GRAB	
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		OTRLY	GRAB	
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	BDL	BDL	(2F)	0	1/90	GRAB	
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	ACUTE TOXCTY		OTRLY	GRAB	
METALS, TOTAL 78240 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	*****	0.5790	0.5790	(19)	0	1/90	GRAB	
	PERMIT REQUIREMENT	*****	****	*****	REPORT 30DA AVG	REPORT DAILY MX	MG/L		OTRLY	GRAB	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER VERNON SHANKS, USEC WASTE MGNT/ENV COMP MGR TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
			270 441-6039	05	04	21

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 BDL MEANS BELOW DETECTABLE LIMIT

Enclosure 2
GDP 05-0022
10 Pages Total

PORTS Quarterly Radiological Discharge Monitoring Report
First Quarter 2005

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 001 / X-230J-7 East Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
1/3/2005	< 2.5	6	< 9	0.57	< 0.026	0.083	< 0.112	0.008
1/10/2005	8.8	23	33	2.34	0.290	0.751	1.073	0.077
1/17/2005	3.2	19	19	1.67	0.058	0.343	0.334	0.030
1/24/2005	< 4.3	7	9	0.79	< 0.032	0.088	0.107	0.009
1/31/2005	< 4.2	6	< 9	0.91	< 0.039	0.075	< 0.111	0.011
2/7/2005	< 3.8	< 6	< 9	1.10	< 0.049	< 0.075	< 0.120	0.015
2/14/2005	5.5	7	< 9	1.28	0.099	0.122	< 0.163	0.023
2/21/2005	4.4	10	12	1.26	0.073	0.167	0.203	0.021
2/28/2005	< 2.3	< 7	< 9	0.58	< 0.037	< 0.126	< 0.175	0.011
3/7/2005	4.0	6	< 10	1.44	0.088	0.129	< 0.214	0.031
3/14/2005	4.5	6	< 9	1.28	0.043	0.052	< 0.086	0.012
3/21/2005	3.8	6	< 9	1.34	0.047	0.071	< 0.107	0.017
3/28/2005	< 3.6	< 5	< 9	1.25	< 0.079	< 0.116	< 0.191	0.027
Total	< 54.9	< 113	< 153	15.81	< 0.960	< 2.198	< 2.996	0.292
Average	< 4.2	< 9	< 12	1.22	< 0.074	< 0.169	< 0.230	0.022
Maximum	8.8	23	33	2.34	0.290	0.751	1.073	0.077
Minimum	< 2.3	< 5	< 9	0.57	< 0.026	0.052	< 0.086	0.008
Transuranics 001030105	Am 241 < 0.178	Np 237 < 0.224	Pu 238 < 0.065	Pu 239+240 < 0.223				

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 002 / X-230K South Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
1/3/2005	< 3.3	6	< 9	0.90	< 0.007	0.078	AA	0.012
1/10/2005	< 2.8	< 5	< 9	0.72	< 0.017	< 0.196	AA	0.028
1/17/2005	< 3.5	< 6	< 9	0.71	< 0.010	< 0.129	AA	0.016
1/24/2005	< 5.3	< 6	< 9	1.02	< 0.005	< 0.046	AA	0.008
1/31/2005	< 5.3	< 6	< 9	1.07	< 0.006	< 0.061	AA	0.011
2/7/2005	< 5.3	< 6	< 9	1.19	< 0.007	< 0.062	AA	0.012
2/14/2005	< 5.6	7	< 9	1.26	< 0.012	0.118	AA	0.021
2/21/2005	< 5.9	< 6	< 9	1.38	< 0.011	< 0.075	AA	0.018
2/28/2005	5.5	8	< 10	1.12	0.053	0.080	AA	0.011
3/7/2005	< 5.6	< 6	< 10	1.29	< 0.012	< 0.096	AA	0.020
3/14/2005	8.2	8	< 9	1.38	0.086	0.087	AA	0.015
3/21/2005	8.1	7	< 9	1.36	0.074	0.067	AA	0.013
3/28/2005	< 5.7	< 6	< 9	1.39	< 0.014	< 0.096	AA	0.023
Total	< 70.1	< 84	< 117	14.79	< 0.314	< 1.191	AA	0.206
Average	< 5.4	< 6	< 9	1.14	< 0.024	< 0.092	AA	0.016
Maximum	8.2	8	< 10	1.39	0.086	< 0.196	AA	0.028
Minimum	< 2.8	< 5	< 9	0.71	< 0.005	< 0.046	AA	0.008
Transuranics 002030105	Am 241 < 0.064	Np 237 < 0.056	Pu 238 < 0.062	Pu 239+240 < 0.056				

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 003 / X-6619 Sewage Treatment Plant

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
1/3/2005	5.5	87	131	4.32	0.043	0.68	1.02	0.034
1/10/2005	12.8	88	119	11.8	0.142	0.97	1.32	0.131
1/17/2005	8.5	96	121	5.17	0.077	0.86	1.09	0.047
1/24/2005	< 5.4	87	130	4.16	< 0.041	0.65	0.98	0.031
1/31/2005	6.4	77	145	6.69	0.047	0.57	1.07	0.049
2/7/2005	8.8	81	125	5.14	0.067	0.61	0.95	0.039
2/14/2005	6.4	104	146	5.86	0.047	0.76	1.07	0.043
2/21/2005	14.4	116	166	6.95	0.102	0.82	1.17	0.049
2/28/2005	10.0	118	160	7.08	0.068	0.80	1.09	0.048
3/7/2005	10.9	99	139	7.59	0.076	0.69	0.97	0.053
3/14/2005	7.5	107	168	6.16	0.049	0.71	1.11	0.041
3/21/2005	7.4	117	176	4.76	0.020	0.32	0.49	0.013
3/28/2005	8.6	151	233	6.66	0.006	0.10	0.16	0.005
Total	< 112.6	1326	1959	82.3	< 0.785	8.54	12.48	0.582
Average	< 8.7	102	151	6.33	< 0.060	0.66	0.96	0.045
Maximum	14.4	151	233	11.8	0.142	0.97	1.32	0.131
Minimum	< 5.4	77	119	4.16	0.006	0.10	0.16	0.005
Transuranics 003030205	Am 241 < 0.198	Np 237 < 0.067	Pu 238 < 0.230	Pu 239+240 < 0.074				

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 004 / Cooling Tower Blowdown

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
1/5/2004	< 2.6	8	< 9	0.52	< 0.0030	0.075	AA	0.0051
1/12/2004	< 3.2	< 6	< 9	0.49	< 0.0030	< 0.058	AA	0.0050
1/19/2004	< 3.2	< 6	< 9	0.45	< 0.0040	< 0.076	AA	0.0061
1/26/2004	< 4.5	< 6	< 9	0.51	< 0.0030	< 0.066	AA	0.0056
2/2/2004	< 4.1	< 6	< 9	0.47	< 0.0020	< 0.051	AA	0.0041
2/9/2004	< 3.7	6	< 9	0.45	< 0.0020	0.048	AA	0.0036
2/16/2004	< 3.7	< 5	< 9	0.56	< 0.0030	< 0.051	AA	0.0053
2/23/2004	< 3.8	7	< 9	0.54	< 0.0040	0.081	AA	0.0065
3/1/2004	2.9	< 7	< 9	0.50	0.0300	< 0.072	AA	0.0053
3/8/2004	< 3.8	7	< 10	0.59	< 0.0030	0.053	AA	0.0047
3/15/2004	2.1	5	< 9	0.54	0.0130	0.031	AA	0.0034
3/22/2004	< 3.8	< 5	< 9	0.48	< 0.0020	< 0.030	AA	0.0027
3/29/2004	< 4.1	< 6	< 10	0.39	< 0.0020	< 0.057	AA	0.0037
Total	< 45.5	< 79	< 117	6.49	< 0.0740	< 0.749	AA	0.0611
Average	< 3.5	< 6	< 9	0.50	< 0.0057	< 0.058	AA	0.0047
Maximum	< 4.5	8	< 10	0.59	0.0300	0.081	AA	0.0065
Minimum	2.1	< 5	< 9	0.39	< 0.0020	< 0.030	AA	0.0027
Transuranics 004030105	Am 241 < 0.178	Np 237 < 0.229	Pu 238 < 0.058	Pu 239+240 < 0.058				

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 005 / X-611B Lime Sludge Lagoon

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
1/3/2005	AL	AL	AL	AL	AL	AL	AL	AL
1/10/2005	2.6	< 5	< 9	0.25	0.167	< 0.32	AA	0.016
1/17/2005	AL	AL	AL	AL	AL	AL	AL	AL
1/24/2005	AL	AL	AL	AL	AL	AL	AL	AL
1/31/2005	AL	AL	AL	AL	AL	AL	AL	AL
2/7/2005	AL	AL	AL	AL	AL	AL	AL	AL
2/14/2005	AL	AL	AL	AL	AL	AL	AL	AL
2/21/2005	AL	AL	AL	AL	AL	AL	AL	AL
2/28/2005	AL	AL	AL	AL	AL	AL	AL	AL
3/7/2005	AL	AL	AL	AL	AL	AL	AL	AL
3/14/2005	AL	AL	AL	AL	AL	AL	AL	AL
3/21/2005	AL	AL	AL	AL	AL	AL	AL	AL
3/28/2005	AL	AL	AL	AL	AL	AL	AL	AL
Total	2.6	< 5	< 9	0.25	0.167	< 0.32	AA	0.016
Average	2.6	< 5	< 9	0.25	0.167	< 0.32	AA	0.016
Maximum	2.6	< 5	< 9	0.25	0.167	< 0.32	AA	0.016
Minimum	2.6	< 5	< 9	0.25	0.167	< 0.32	AA	0.016
Transuranics	Am 241	Np 237	Pu 238	Pu 239+240				
005010705	< 0.198	< 0.193	< 0.153	< 0.153				

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 009 / X-230L North Holding Pond

	Concentrations					Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg	
1/3/2005	9.0	6	< 9	7.08	0.115	0.076	AA	0.091	
1/10/2005	7.9	< 6	< 9	5.01	0.231	< 0.165	AA	0.146	
1/17/2005	4.0	6	< 9	5.23	0.070	0.108	AA	0.092	
1/24/2005	7.3	< 6	< 9	5.95	0.059	< 0.047	AA	0.048	
1/31/2005	< 5.2	< 6	< 9	6.21	< 0.041	< 0.066	AA	0.069	
2/7/2005	12.3	9	< 9	6.77	0.177	0.125	AA	0.097	
2/14/2005	8.2	9	10	6.86	0.151	0.158	0.18	0.126	
2/21/2005	8.5	7	< 9	5.79	0.088	0.073	AA	0.060	
2/28/2005	4.8	9	< 9	4.89	0.065	0.121	AA	0.066	
3/7/2005	4.2	< 6	< 10	6.36	0.070	< 0.098	AA	0.107	
3/14/2005	5.1	7	< 9	5.76	0.059	0.081	AA	0.066	
3/21/2005	4.4	< 6	< 9	5.92	0.050	< 0.062	AA	0.067	
3/28/2005	< 4.7	< 6	< 10	5.47	< 0.066	< 0.125	AA	0.110	
Total	< 85.6	< 88	< 118	77.30	< 1.242	< 1.305	0.18	1.145	
Average	< 6.6	< 7	< 9	5.95	< 0.096	< 0.100	0.18	0.088	
Maximum	12.3	9	10	7.1	0.231	< 0.165	0.18	0.146	
Minimum	4.0	< 6	< 9	4.89	< 0.041	< 0.047	0.18	0.048	
Transuranics 009030105	Am 241 < 0.183	Np 237 < 0.251	Pu 238 < 0.063	Pu 239+240 < 0.171					

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 010 / X-230J-5 Northwest Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
1/3/2005	< 2.8	< 5	< 9	2.92	< 0.015	< 0.044	AA	0.025
1/10/2005	3.9	< 6	< 9	2.54	0.059	< 0.084	AA	0.038
1/17/2005	6.4	6	< 9	3.00	0.069	0.061	AA	0.032
1/24/2005	< 5.2	< 6	< 9	3.14	< 0.016	< 0.051	AA	0.026
1/31/2005	6.1	< 6	< 9	3.89	0.057	< 0.057	AA	0.037
2/7/2005	5.9	< 6	< 9	4.27	0.050	< 0.051	AA	0.036
2/14/2005	< 4.7	< 6	< 9	4.57	< 0.030	< 0.062	AA	0.050
2/21/2005	7.7	8	< 9	4.99	0.053	0.051	AA	0.034
2/28/2005	5.1	< 7	< 9	4.22	0.039	< 0.054	AA	0.032
3/7/2005	6.0	< 6	< 10	5.27	0.057	< 0.056	AA	0.050
3/14/2005	7.1	6	< 9	4.72	0.053	0.045	AA	0.036
3/21/2005	< 4.4	< 6	< 9	3.61	< 0.015	< 0.038	AA	0.025
3/28/2005	6.3	< 6	< 10	4.07	0.070	< 0.069	AA	0.046
Total	< 71.6	< 78	< 117	51.21	< 0.583	< 0.723	AA	0.467
Average	< 5.5	< 6	< 9	3.94	< 0.045	< 0.056	AA	0.036
Maximum	7.7	8	< 10	5.27	0.070	< 0.084	AA	0.050
Minimum	< 2.8	< 5	< 9	2.54	< 0.015	< 0.038	AA	0.025
Transuranics 010030105	Am 241 < 0.199	Np 237 < 0.164	Pu 238 < 0.239	Pu 239+240 < 0.163				

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 011 / X-230J-6 Northeast Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
1/3/2005	< 2.8	6	< 9	1.17	< 0.0005	0.0040	AA	0.0008
1/10/2005	< 3.1	< 6	< 9	1.04	< 0.0010	< 0.0090	AA	0.0017
1/17/2005	< 3.3	< 6	< 9	1.44	< 0.0006	< 0.0040	AA	0.0009
1/24/2005	< 4.7	8	< 9	1.23	< 0.0001	0.0010	AA	0.0002
1/31/2005	< 4.6	< 6	< 9	1.28	< 0.0001	< 0.0010	AA	0.0001
2/7/2005	< 4.5	< 6	< 9	1.32	< 0.0001	< 0.0010	AA	0.0002
2/14/2005	< 4.5	< 6	< 9	1.67	< 0.0003	< 0.0010	AA	0.0004
2/21/2005	5.8	< 6	< 9	1.52	0.0004	< 0.0000	AA	0.0001
2/28/2005	3.0	< 7	< 9	1.21	0.0006	< 0.0010	AA	0.0002
3/7/2005	< 4.2	< 6	< 10	1.59	< 0.0001	< 0.0010	AA	0.0002
3/14/2005	3.7	5	< 9	1.26	0.0003	0.0000	AA	0.0001
3/21/2005	6.6	6	< 9	1.13	0.0008	0.0010	AA	0.0001
3/28/2005	< 4.7	< 6	< 10	1.39	< 0.0007	< 0.0050	AA	0.0011
Total	< 55.5	< 79	< 117	17.25	< 0.0054	< 0.0290	AA	0.0061
Average	< 4.3	< 6	< 9	1.33	< 0.0004	< 0.0022	AA	0.0005
Maximum	6.6	8	< 10	1.67	< 0.0010	< 0.0090	AA	0.0017
Minimum	< 2.8	5	< 9	1.04	< 0.0001	0.0000	AA	0.0001
Transuranics 011031505	Am 241 < 0.393	Np 237 < 0.248	Pu 238 < 0.328	Pu 239+240 < 0.057				

**Plant Radiological Discharges to Surface Water
Calendar Year 2005 - 1st Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

NOTES

Weekly concentrations and loadings with quarterly summaries are presented for Gross Alpha Activity, Gross Beta Activity, Technetium-99 (beta) Activity and Total Uranium Concentration. These figures are based on seven-day composite samples and measured flows at each outfall except at Outfall 005. Since Outfall 005 historically had no discharge, there is no composite sampler there and effluent data is based on grab samples and manual measurements taken when there is an actual discharge.

A rainfall event resulted in flow from Outfall 005 during the week ending Jan 10. Grab samples were collected for both the weekly radiological parameters and the transuranic parameters during the initial day of flow and for the weekly parameters only on the following Monday (Jan 10). All radiological parameters were below their MDA/LLD in the Monday sample; therefore only the initial sample results are being reported.

Quarterly concentrations are presented for Americium-241, Neptunium-237, Plutonium-238, Plutonium 239 and Plutonium 240. (All of these are transuranics. Plutonium 239 and Plutonium 240 activities are reported as a combined activity because they emit substantially identical radiation.) These figures are based on quarterly grab samples.

Weekly concentrations that are below the Minimum Detectable Activity (MDA) or Laboratory Limit of Detection (LLD) are indicated by a "less than" (<) prefix ahead of the numerical MDA/LLD. MDAs vary somewhat from day to day and from outfall to outfall depending on interferences present and other conditions.

Weekly loadings that correspond to less than MDA/LLD concentrations are calculated based on the MDA/LLD value and prefixed with a "<" except as follows: Technetium loadings at Outfalls 002, 004, 005, 009, 010, and 011 are presumed to be zero unless actually detected, based on the historical absence of technetium in these outfalls. These loadings are coded as "AA" unless actually detected.

Loadings are not calculated for transuranics because measurable transuranic concentrations are not normally present in any USEC-leased outfall.

AA indicates no detectable concentration.

AL indicates no flow during the sampling period.