



U.S. Department of Energy

Portsmouth Gaseous Diffusion Plant

**Annual Site
Environmental Report
2018**

June 2020

**U.S. Department of Energy
Portsmouth Gaseous Diffusion Plant
Annual Site Environmental Report – 2018
Piketon, Ohio**



**U.S. Department of Energy
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June 2020

**By
Fluor-BWXT Portsmouth LLC, under Contract DE-AC30-10CC40017**

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ACRONYMS AND ABBREVIATIONS

ACO	American Centrifuge Operating, LLC
ACP	American Centrifuge Plant
ALARA	as low as reasonably achievable
Bq	becquerel
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	<i>Code of Federal Regulations</i>
Ci	curie
D&D	decontamination and decommissioning
DAS	Disposal Authorization Statement
D&D DFF&O	<i>The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto (Ohio EPA 2012)</i>
DOE	U.S. Department of Energy
dps	disintegration per second
DUF ₆	depleted uranium hexafluoride
EMS	Environmental Management System
EPEAT	Electronic Product Environmental Assessment Tool
FBP	Fluor-BWXT Portsmouth LLC
Gy	gray
IRM	interim remedial measure
kg	kilogram
lbs	pounds
LFRG	Low-level Waste Disposal Facility Review Group
LLW	low-level radioactive waste
µg/g	microgram per gram (equivalent to part per million)
µg/kg	microgram per kilogram (equivalent to part per billion)
µg/L	microgram per liter (equivalent to part per billion)
µg/m ³	microgram per cubic meter
MCS	Mid-America Conversion Services, LLC
mg/L	milligram per liter (equivalent to part per million)
mrem	millirem
mSv	millisievert
NCRP	National Council on Radiation Protection
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NPDES	National Pollutant Discharge Elimination System
NRC	U.S. Nuclear Regulatory Commission
Ohio EPA	Ohio Environmental Protection Agency
OSWDF	on-site waste disposal facility
OVEC	Ohio Valley Electric Corporation
PCB	polychlorinated biphenyl
pCi/g	picocurie per gram
pCi/L	picocurie per liter
pCi/mL	picocurie per milliliter
pCi/m ³	picocurie per cubic meter
PEGASIS	PPPO Environmental Geographic Analytical Spatial Information System

PK	Peter Kiewit
PMA	Portsmouth Mission Alliance, LLC
PORTS	Portsmouth Gaseous Diffusion Plant
ppb	part per billion
ppm	part per million
PPPO	Portsmouth/Paducah Project Office
rad	radiation absorbed dose
RCRA	Resource Conservation and Recovery Act
rem	roentgen equivalent man
SODI	Southern Ohio Diversification Initiative
Sv	sievert
TCE	trichloroethene
TLD	thermoluminescent dosimeter
TSCA	Toxic Substances Control Act
USEC	United States Enrichment Corporation
U.S. EPA	U.S. Environmental Protection Agency
VOC	volatile organic compound