

RADIATION PROTECTION AT EPA Over the Decades

EPA Administrator I sst. Admin.(OAR) I ice Director (ORIA)	1970s W. Ruckleshaus ('70) R. Train ('74) I I D. Dominick ('70) R. Strelow ('74) D. Mosiman ('71) I R. Sansom ('72) W. Rowe ('73) I J. Lieberman ('70)	D. Costle ('77) I D. Hawkins ('77) I	805 A. Gorsuch (*81) I K. Bennett (*81) I G. Burley (acting) (*81) U W. Ruckleshaus (*84) I J. Cannon (*84) I G. Sjoblom (*83)	L. Thomas (*85) I. W. Reilly (*89) C. Elkins (acting) (*85) J. C. Potter (*86) D. Clay (acting) (*88) I. M. Oge (*91) S. Myers (*85) R. Guimond (*88)	1990s C. Browner ('93) I M. Shapiro (acting) ('93) M. Nichols ('94) I E. R. Trovato ('95)	C. Browner ('97) I R. Wilson (acting) ('97) R. Perciasepe ('98) I L. Weinstock (acting) ('97) S. Page ('99)
Statutes and Authorities	 PHSA Authorizes Response to Health Emergencies ('44, '57, '58, '60, '76) AEA Authorizes Regulation of Nuclear Industry ('46, '54) Federal Reorganization Plan No. 3 Creates EPA ('70) CAA Authorizes EPA to Regulate Air Emissions ('70, '77, '90) MPRSA Authorizes EPA to Regulate Ocean Dumping ('72, '77) 	 FWPCA ('72) Amended by CWA Authorizes EPA to Regulate Discharges of Pollutants into U.S. Waters ('77, '87) SDWA Authorizes EPA to Regulate Contaminants in Drinking Water ('74, '86, '96) RCRA Authorizes EPA to Regulate Hazardous Waste ('76, '85, '86) UMTRCA Authorizes EPA to Regulate Uranium and Thorium Mill Tailings ('78) 	 CERCLA Governs Federal Response to Releases of Hazardous Substances ('80, '86, '90) NWPA Governs Disposal of HLW & SNF ('82) NWPAA Requires Characterization of Only Yucca Mountain Site ('87) 	 IRAA Establishes National Goal of Achieving Indoor Levels of Radon No Greater than Outdoor Levels ('88) E.O. 12656 Establishes Federal Roles for Emergency Response ('88) 	Oversee DOE WIPP Activities ('92) to the Ho seas (PD	on Against Unconventional Threat omeland and Americans Over- D-62) Establishes EPA's Role in Response to a Terrorist Event
EPA Implementation Activities	 FG for Underground Mining of Uranium Ore ('71) ERAMS Established ('73) PAGs for Nuclear Incidents ('75) National Interim Primary Drinking Water Standards ('76) 	 Standards for Nuclear Power Operations ('77) Ocean Dumping Regulations ('77) FG for Diagnostic X-Rays (EPA and HI ('78) Radionuclides Designated as HAPs (' Environmental Monitoring at TMI ('79) 	(79) Uranium Processing Sites (*83) Standards for Uranium and Thorium M Toilings at Lisoppord Commercial Proc	 A Citizen's Guide to Radon ('86) Final National Drinking Water Standards ('8 RERP ('86) FG for Occupational Exposure ('87) FGR 11 - Limiting Values of Radionuclide In Air Concentration and Dose Conversion Eace 	 FGR 12- External Exposure to Radionuclides in Air, Water, and Soil ('93) Individual and Ground Water Protection Standards for the Disposal of SNF, HLW, and TRU ('93) A Citizen's Guide to Radon Rev. ('94) Groundwater Standards for Remedial Actions of Inactive Uranium Proceeding Sites ('05) 	 Compliance Application Guidance for WIPP ('96) Cleanup Levels Established for Radioactive CERCLA Sites ('97) MARSSIM ('97) Use of Soil Cleanup Criteria in 40 CFR 192 as Remediation Goals at CERCLA Sites ('98) WIPP Certified to Accept TRU Waste ('98) FGR 13 - Cancer Risk Coefficients for Environmental Exposure to Radionuclides ('99) RERP Rev. ('00)
External Factors	 NAS BEIR I - The Effects on Population of Exposure to Low Levels of Ionizing Radiation ('72) ERA Abolishes AEC, Establishes ERDA ('74) Department of Energy Organization Accreates DOE ('77) NAS BEIR II - Considerations of Health fit/Cost Analysis for Activities Involving Radiation Exposure and Alternatives ('7) 	 Contamination Problems ('78) Accident at TMI Nuclear Power E.O. 12148 Creates FEMA ('79) ct Bene- lonizing 	Exposure to Low Levels of Ioniz	 Accident at Nuclear Power Plant in C Soviet Union ('86) Vinyl Chloride Decision Alters EPA's A Radiation Standards (87) NAS BEIR IV - Health Risks of Radon Internally Deposited Alpha-Emitters ('82) I Radioactivity ('83) 	 Protecting the Nation's Ground Water:EPA's Strategy for the 1990's ('91) NAS Report on Yucca Mountain Standards ('95) 	 NAS Risk Assessment of Radon In Drinking Water ('99) NAS Evaluation of Guidelines for Exposure TENORM ('99) WIPP Receives First Shipment of TRU Waste ('99)

Acronym List									
AEA	Atomic Energy Act	EO	Executive Order	LLRW	Low-Level Radioactive Waste				
BEIR	Biological Effects of Ionizing Radiation	FEMA	Federal Emergency Management Agency	LLRWPA	Low-Level Radioactive Waste Policy Act				
CAA	Clean Air Act	FG	Presidential Federal Guidance	MARSSIM	Multi-Agency Radiation Survey and Site Inventory Manual				
CERCLA	Comprehensive Environmental Response,	FGR	Federal Guidance Report	MPRSA	Marine Protection, Research, and Sanctuaries Act				
	Compensation, and Liability Act	FRERP	Federal Radiological Emergency Response Plan	NAS	National Academy of Science				
CRCPD	Conference of Radiation Control Program Directors	FRPCC	Federal Radiological Preparedness Coordinating	NCP	National Oil and Hazardous Substances				
CWA	Clean Water Act		Committee		Pollution Contingency Plan				
DOE	Department of Energy	FWPCA	Federal Water Pollution Control Act	NESHAPs	National Emission Standards for Hazardous Air Pollutants				
EnPA	Energy Policy Act	HAPs	Hazardous Air Pollutants	NRC	Nuclear Regulatory Commission				
ERA	Energy Reorganization Act	HEW	Health,Education and Welfare	NWPA	Nuclear Waste Policy Act				
ERAMS	Environmental Radiation Ambient Monitoring System	HLW	High-Level Waste	NWPAA	Nuclear Waste Policy Act Amendments				
ERDA	Energy, Research and Development Administration	IRAA	Indoor Radon Abatement Act	OAR	Office of Air and Radiation				

ORIA Office of Radiation and Indoor Air PAGs Protective Action Guides PDD PHSA Radium Ra RCRA RERP RERT SDWA SNF Spent Nuclear Fuel TENORM

Presidential Decision Directive Public Health Service Act Resource Conservation and Recovery Act Radiological Emergency Response Plan Radiological Emergency Response Team Safe Drinking Water Act . Technologically Enhanced Naturally Occurring Radioactive Materials

TMI Three Mile Island TRU Transuranic Waste **UMTRCA** Uranium Mill Tailings Radiation Control Act Ur Uranium Vanadium V Waste Isolation Pilot Plant WIPP WIPP LWA WIPP Land Withdrawal Act