

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit A-1. Labor Categories and Occupation Codes.

The following is a list of the Occupation Codes that are reported with each individual's dose record to the DOE Radiation Exposure Monitoring System (REMS) in accordance with DOE M 231.1-1A. Occupation Codes are grouped into Labor Categories for the purposes of analysis and summary in this report. The occupation codes are listed in DOE M 231.1-1A, Appendix G, Table 7, and represent a subset of the occupations listed in the Department of Commerce's Standard Occupational Classification (SOC) Manual (1980).

Labor Category	Occupation Code	Occupation Name
Agriculture	0562	Groundskeepers
	0570	Forest Workers
	0580	Misc. Agriculture
Construction/Repair	0610	Mechanics/Repairers
	0641	Masons
	0642	Carpenters
	0643	Electricians
	0644	Painters
	0645	Pipe Fitter
	0650	Miners/Drillers
	0660	Misc. Repair/Construction
Laborers	0850	Handlers/Laborers/Helpers
Management	0110	Manager - Administrator
	0400	Sales
	0450	Admin. Support and Clerical
Misc.	0910	Military
	0990	Miscellaneous
Production	0681	Machinists
	0682	Sheet Metal Workers
	0690	Operators, Plant/System/Utility
	0710	Machine Setup/Operators
	0771	Welders and Solderers
	0780	Misc. Precision/Production
Professional	0160	Engineer
	0170	Scientist
	0184	Health Physicist
	0200	Misc. Professional
	0260	Doctors and Nurses
Service Workers	0512	Firefighters
	0513	Security Guards
	0521	Food Service Employees
	0524	Janitors
	0525	Misc. Service
Technicians	0350	Technicians
	0360	Health Technicians
	0370	Engineering Technicians

	0380 0383 0390	Science Technicians Radiation Monitors/Techs. Misc. Technicians
Transport Workers	0820 0821 0825 0830 0840	Truck Drivers Bus Drivers Pilots Equipment Operators Misc. Transport
Unknown	0001	Unknown

	N. Korea Project	8009001	DOE North Korea Project	●					
		8011001	Russian Federation Project		●				
	Kazakhstan	8010001	DOE Kazakhstan Project	●					
Idaho	Idaho Site	3004001	Idaho Field Office	●	●	●	●	●	
		3004402	BBWI - AMWTP		●	●	●		
		3005004	INL - BEA, LLC - Services	●	●	●	●	●	
		3005016	ICP - BBWI - Construction Subs	●	●	●	●	●	
		3006016	ICP - CWI - Construction Subs						●
		3009004	Bechtel BWXT Idaho, LLC - WVDP						●
		3060634	Stoller Service Subs - Grand Junction						●
		3260605	SM Stoller - EM				●		●
		3260616	SM Stoller Subs - LM				●		
		3260634	SM Stoller Service Subs - Grand Junction		●			●	
Nevada	Nevada Test Site (NTS)	3500000	Nevada Operations	●	●	●	●	●	
		3501204	Bechtel Nevada - Las Vegas				●	●	●
		3501405	Bechtel Nevada - NTS	●	●	●	●	●	
		3501416	Bechtel Nevada - NTS Subcontractors	●	●	●	●	●	
		3501503	Bechtel Nevada - Special Tech Laboratory						●
		3501604	Bechtel Nevada - Washington Aerial Measurement						●
		0521503	Bechtel Nevada - Special Technologies Labs						●
		0521604	Bechtel Nevada - Washington Aerial Meas.	●	●	●	●		
		3507514	Nevada Miscellaneous Contractors	●	●	●	●	●	
		3508004	Nye County Sheriff	●	●	●	●	●	
		3508703	Science Applications Int'l. Corp. - NV	●	●				
		3509009	Wackenhut Services, Inc. - NV	●	●	●	●	●	
		9700000	Yucca Mountain Project						●
Oak Ridge	Ops. and Other Facilities	4004203	Oak Ridge Inst. for Science & Educ. (ORISE)	●	●	●	●	●	
		4004501	Oak Ridge Office	●	●	●	●	●	
		4009006	Morrison-Knudsen (WSSRAP)	●					
		4009503	Thomas Jefferson National Accel. Facility	●	●	●	●	●	
	Oak Ridge Site	4004602	UT-Battelle: Foster Wheeler				●	●	●
		4005104	USEC: Oak Ridge						●
		4006002	Bechtel-Jacobs Co., LLC-ETTP	●	●	●	●	●	
		4006012	USEC: Oak Ridge						●
		4006302	British Nuclear Fuels Limited (BNFL) (ETTP)	●	●	●	●	●	
		4006406	Decontamination & Recovery Sites - ETTP	●					
		4006503	UT-Battelle - ORNL	●	●	●	●	●	
		4006510	Bechtel Jacobs - ORNL	●	●	●	●	●	
		4007509	Wackenhut Services - OR Security						

		4008002	BWXT LLC, Y-12	●	●	●	●	●	
		4008010	Bechtel-Jacobs, Y-12	●	●	●	●	●	
		4018102	BWXT LLC, Y-12	●	●	●	●	●	
		4007002	Bechtel-Jacobs Co., LLC - Paducah	●	●	●	●	●	
	Paducah Gas. Diff. Plant (PGDP)	6203106	Uranium Disposition Services - Paducah Sub					●	
		6203204	Swift & Staley Mech Contr, Inc. - Paducah					●	
		4002502	Bechtel-Jacobs - Portsmouth	●	●	●	●	●	
	Portsmouth Gas. Diff. Plant (PORTS)	6202106	Uranium Disposition Services - Portsmouth Sub					●	
		6202204	Theta Pro2Serve Management Co. - Portsmouth					●	
		6202304	LATA/Parralax Portsmouth LLC					●	
		Oakland	Ops. and Other Facilities	8001003	Boeing North America, Inc. - Research	●	●		
	8001023			Rocketdyne - Boeing			●	●	
8006103	U. of Cal./Davis, Radiobiology Lab. - LEHR			●	●	●			
8007001	Oakland Field Office					●	●	●	
Lawrence Berkeley Nat'l Lab. (LBNL)	8003003		Lawrence Berkeley National Laboratory	●	●	●	●	●	
Lawrence Livermore Nat'l Lab. (LLNL)	0580403		Lawrence Livermore National Laboratory	●	●	●	●		
	8004003		Lawrence Livermore National Laboratory					●	
	0580404		LLNL Services	●	●	●	●		
	8004004		LLNL Services					●	
	0580503		LLNL - Nevada		●	●	●		
	8005003		LLNL - Nevada					●	
Stanford Linear Acc. Center (SLAC)	8008003		Stanford Linear Accelerator Center	●	●	●	●	●	
	8009005	Separation Process Research Unit	●						
Ohio	Ops. and Other Facilities	4500001	Ohio Field Office	●	●	●	●		
		4510001	Miamisburg Envir. Mgmt. Project Office	●	●	●	●	●	
		4510006	MEMP Office Subs	●	●	●			
		4517003	Battelle Memorial Institute - Columbus	●	●	●	●		
	Fernald Environmental	4521001	Fernald Closure Project (FCP)	●	●	●	●	●	
		4521004	FEMP Office Service Subcontractors	●	●	●	●	●	
		4523702	Fluor Fernald - FEMP	●	●	●	●	●	
		4523704	Fluor Fernald Service Vendors	●	●	●	●	●	
		4523706	Fluor Fernald Construction Subcontractors	●	●	●	●	●	
	Mound Plant	4516002	CH2M Hill-Mound, Inc.	●	●	●	●	●	
		4516004	CH2M Hill-Mound, Inc. - Service Subs	●	●	●	●	●	
		4516009	CH2M Hill-Mound, Inc. - Security Forces	●	●	●	●		
	West Valley Project	4530001	West Valley Demonstration Project Office	●				●	
		4539004	West Valley Nuclear Services, Inc. (WVNS)	●	●	●			
		4542005	RMI Environmental Services						

Rocky Flats	Rocky Flats Env. Tech. Site (RFETS)	7700001	Rocky Flats Office						
		7707002	Rocky Flats Prime Contractors						
		7707004	Rocky Flats Subcontractors						
Richland	Office of River Protection	4700805	Bechtel National, Inc. - WTP						
		4701001	Office of River Protection						
		4702004	Advance Technology Laboratories						
		4707104	CH2M Hill Hanford Group						
	Hanford Site	7500503	Battelle Memorial Institute (PNL)						
		7500605	Washington Closure Hanford, LLC						
		7500705	Bechtel Power Co.						
		7502504	Advance Med Hanford						
		7505004	Fluor Daniel - Hanford						
		7505005	Fluor Daniel Northwest						
		7505006	Fluor Daniel Northwest Services						
		7505012	Babcock Wilcox Hanford						
		7505024	Duratek Federal Services, Inc. - Hanford						
		7505025	Duratek Federal Services, Inc.						
		7505034	Duke Engineering Services Hanford						
		7505035	Duke Engineering & Services Northwest, Inc.						
		7505044	NUMATEC Hanford						
		7505055	Lockheed Martin Services, Inc.						
		7505064	Dyncorp Hanford						
		7505075	COGEMA Engineering Corporation						
		7505099	Protection Technology - Hanford Security						
		7506001	DOE - Richland Field Office						
		7509104	Verizon/Qwest						
Savannah River	Savannah River Site (SRS)	8500505	Bechtel Construction - SR						
		8500516	Miscellaneous SRS Construction Subs						
		8501002	Westinghouse Savannah River Co.						
		8501014	Westinghouse S.R. Subcontractors						
		8505001	S.R. Forest Station						
		8505501	Savannah River Field Office						
		8507004	Miscellaneous DOE Contractors - SR						
		8507504	Southern Bell Tel. & Tel.						
		8509003	Univ. of Georgia Ecology Laboratories						
		8509509	Wackenhut Services, Inc. - SR						
		Not included in this report (see Appendix D)							
Pittsburg Naval Reactor Office	Pittsburg Naval Reactor Office	0561001	Pittsburgh N.R. Office						
		0561054	Westinghouse Plant Aparatus Division						

		0561803	Bechtel Bettis, Inc. (BAPL)						
		0561903	Bechtel Bettis, Inc. (NRF)						
Schenectady Naval Reactor Office	Schenectady Naval Reactor Office	0561914	Newport News Reactor Services						
		0562403	LM-KAPL - Kesselring						
		0562405	Gen. Dynam. - Kesselring - Electric Boat						
		0562503	LM-KAPL - Knolls						
		0562504	LM-KAPL - Knolls Service Subs						
		0562516	CH2MHILL Knolls SPRU Project						
		0562703	LM-KAPL - Windsor						
		0562705	LM-KAPL - Windsor - Electric Boat						
		0562001	Schenectady N.R. Office						

*Those organizations no longer reporting radiation exposure information have either ceased operations requiring the monitoring and reporting of radiation records, are no longer under contract or subcontract at the DOE facility, or have changed organization codes or the name of the organization.

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Exhibit A-3. Facility Type Codes.

The following is a list of Facility Type Codes reported to REMS in accordance with DOE M 231.1-1A. A facility type code is reported with each individual's dose record and indicates the facility type where the majority of the individual's dose was accrued during the monitoring year.

Facility Type Code	Description
10	Accelerator
21	Fuel/Uranium Enrichment
22	Fuel Fabrication
23	Fuel Processing
40	Maintenance and Support (Site-Wide)
50	Reactor
61	Research, General
62	Research, Fusion
70	Waste Processing/Mgmt.
80	Weapons Fab. and Testing
99	Other

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Exhibit B-1. Site Dose Data - 2003.

2003								
Site	Collective TEDE (person-rem)		Number with Meas. Dose	Percent Change from 2002	Avg. Meas. TEDE (rem)	Percent Change from 2002	Percentage of Coll. TEDE above 0.500 rem	Percent Change from 2002
Albuquerque Site Office and Other Facilities	1.3	-47% ▼	107	-9% ▼	0.012	-42% ▼	0%	0%
Los Alamos National Laboratory	240.0	47% ▲	2,047	21% ▲	0.117	22% ▲	49%	14% ▲
Pantex Plant	35.9	-24% ▼	290	-1% ▼	0.124	-24% ▼	26%	-6% ▼
Sandia National Laboratory	10.2	125% ▲	250	129% ▲	0.041	-2% ▼	0%	0%
Chicago Site Office and Other Facilities	1.2	-73% ▼	153	-16% ▼	0.008	-68% ▼	0%	-12% ▼
Argonne National Laboratory - East	21.4	-9% ▼	231	-1% ▼	0.093	-8% ▼	8%	-31% ▼
Argonne National Laboratory - West	28.8	15% ▲	277	0%	0.104	16% ▲	22%	14% ▲
Brookhaven National Laboratory	12.2	-54% ▼	306	-30% ▼	0.040	-33% ▼	5%	-15% ▼
Fermi Nat'l. Accelerator Laboratory	25.7	101% ▲	612	57% ▲	0.042	28% ▲	7%	7% ▲
Idaho Site	64.0	-16% ▼	1,141	5% ▲	0.056	20% ▲	3%	-1% ▼
Nevada Test Site	3.2	251% ▲	69	130% ▲	0.047	53% ▲	0%	0%
Oakland Site Office and Other Facilities	0.9	-72% ▼	64	-21% ▼	0.014	65% ▲	0%	-19% ▼
Lawrence Berkeley National Laboratory	1.0	16% ▲	20	-39% ▼	0.052	91% ▲	0%	0%
Lawrence Livermore National Laboratory	36.4	30% ▲	202	24% ▲	0.180	5% ▲	69%	9% ▲
Stanford Linear Accelerator Center	3.1	2% ▲	109	38% ▲	0.029	-26% ▼	0%	0%
Oak Ridge Site Office and Other Facilities	1.3	-8% ▼	98	-5% ▼	0.013	-3% ▼	0%	0%
Oak Ridge Site	116.0	8% ▲	2,389	4% ▲	0.049	4% ▲	6%	2% ▲
Paducah Gaseous Diffusion Plant	3.2	-64% ▼	38	-84% ▼	0.084	122% ▲	0%	0%
Portsmouth Gaseous Diffusion Plant	0.6	-39% ▼	26	-30% ▼	0.023	-13% ▼	0%	0%
Ohio Site Office and Other Facilities	0.7	27% ▲	47	-4% ▼	0.016	33% ▲	0%	0%
Battelle Memorial Institute - Columbus	35.9	-19% ▼	100	-3% ▼	0.359	-17% ▼	73%	-6% ▼
Fernald Environmental Management Project	16.2	-5% ▼	631	10% ▲	0.026	-14% ▼	0%	0%
Mound Plant	5.8	112% ▲	237	20% ▲	0.025	77% ▲	0%	0%
West Valley Project	41.7	37% ▲	207	-13% ▼	0.202	58% ▲	64%	41% ▲
Rocky Flats Environmental Technology Site	198.6	-21% ▼	1,761	-19% ▼	0.113	-2% ▼	27%	3% ▲
Hanford Site	280.8	2% ▲	2,626	1% ▲	0.107	2% ▲	37%	8% ▲
Savannah River Site	258.6	30% ▲	3,446	7% ▲	0.075	21% ▲	16	1% ▲
Totals	1,444.6	6% ▲	17,484	3% ▲	0.083	4% ▲	29%	5% ▲

Note: Boxed values (gray background) indicate the greatest value in each column.

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 Exhibit B-2. Site Dose Data - 2004.

2004								
Site	Collective TEDE (person-rem)	Percent Change from 2003	Number with Meas. Dose	Percent Change from 2003	Avg. Meas. TEDE (rem)	Percent Change from 2003	Percentage of Coll. TEDE above 0.500 rem	Percent Change from 2003
Albuquerque Site Office and Other Facilities	1.3	3% ▲	116	8% ▲	0.012	-5% ▼	0%	0%
Los Alamos National Laboratory	124.5	-48% ▼	1,709	-17% ▼	0.073	-38% ▼	27%	-44% ▼
Pantex Plant	24.3	-32% ▼	270	-7% ▼	0.090	-27% ▼	15%	-40% ▼
Sandia National Laboratory	17.1	68% ▲	317	27% ▲	0.054	32% ▲	12%	100% ▲
Chicago Site Office and Other Facilities	2.5	108% ▲	173	13% ▲	0.015	84% ▲	0%	
Argonne National Laboratory - East	20.5	-4% ▼	172	-26% ▼	0.119	29% ▲	41%	387% ▲
Argonne National Laboratory - West	28.0	-2% ▼	326	18% ▲	0.086	-17% ▼	22%	2% ▲
Brookhaven National Laboratory	23.7	94% ▲	301	-2% ▼	0.079	98% ▲	38%	675% ▲
Fermi Nat'l. Accelerator Laboratory	20.6	-20% ▼	498	-19% ▼	0.041	-2% ▼	0%	
Idaho Site	109.5	71% ▲	1,471	29% ▲	0.074	33% ▲	9%	159% ▲
Nevada Test Site	6.6	104% ▲	116	68% ▲	0.057	21% ▲	0%	
Lawrence Berkeley National Laboratory	0.7	-29% ▼	18	-10% ▼	0.041	-21% ▼	0%	
Lawrence Livermore National Laboratory	31.2	-14% ▼	232	15% ▲	0.135	-25% ▼	55%	-20% ▼
Stanford Linear Accelerator Center	3.9	25% ▲	149	37% ▲	0.026	-8% ▼	0%	0%
Oak Ridge Site Office and Other Facilities	1.4	6% ▲	92	-6% ▼	0.015	-13% ▼	0%	0%
Oak Ridge Site	115.5	0% ▼	2,132	-11% ▼	0.054	12% ▲	6%	4% ▲
Paducah Gaseous Diffusion Plant	3.4	6% ▲	41	8% ▲	0.083	-1% ▼	0%	0%
Portsmouth Gaseous Diffusion Plant	1.9	221% ▲	32	23% ▲	0.059	161% ▲	0%	0%
Ohio Site Office and Other Facilities	0.2	-74% ▼	14	-70% ▼	0.014	-11% ▼	0%	0%
Fernald Environmental Management Project	15.5	-4% ▼	615	-3% ▼	0.025	-2% ▼	0%	0%
Mound Plant	4.6	-22% ▼	152	-36% ▼	0.030	22% ▲	39%	100% ▲
West Valley Project	39.7	-5% ▼	241	16% ▲	0.165	-18% ▼	22%	-66% ▼
Rocky Flats Environmental Technology Site	77.4	-61% ▼	1,021	-42% ▼	0.076	-33% ▼	12%	-55% ▼
Hanford Site	205.2	-16% ▼	2,278	5% ▲	0.090	-19% ▼	18%	-57% ▼
Office of River Protection	14.0	-62% ▼	288	-36% ▼	0.049	-42% ▼	0%	0%
Savannah River Site	201.2	-22% ▼	2,966	-14% ▼	0.068	-10% ▼	18%	17% ▲
Totals	1,094.4	-24% ▼	15,740	-10% ▼	0.070	-16% ▼	17%	-40% ▼

Note: Boxed values (gray background) indicate the greatest value in each column.

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 Exhibit B-3. Site Dose Data - 2005.

2005								
Site	Collective TEDE (person-rem)	Percent Change from 2004	Number with Meas. Dose	Percent Change from 2004	Avg. Meas. TEDE (rem)	Percent Change from 2004	Percentage of Coll. TEDE above 0.500 rem	Percent Change from 2004
Albuquerque Site Office and Other Facilities	1.2	-9% ▼	98	-16% ▼	0.012	7% ▲	0%	0%
Los Alamos National Laboratory	155.4	25% ▲	2,168	27% ▲	0.072	-2% ▼	27%	0% ▲
Pantex Plant	44.2	82% ▲	334	24% ▲	0.132	47% ▲	35%	128% ▲
Sandia National Laboratory	8.5	-50% ▼	222	-30% ▼	0.038	-29% ▼	0%	
Chicago Site Office and Other Facilities	2.0	-22% ▼	160	-8% ▼	0.012	-16% ▼	0%	
Argonne National Laboratory	17.0	-17% ▼	267	55% ▲	0.064	-47% ▼	13%	-68% ▼
Brookhaven National Laboratory	10.2	-57% ▼	216	-28% ▼	0.047	-40% ▼	0%	100% ▼
Fermi National Accelerator Laboratory	16.1	-22% ▼	425	-15% ▼	0.038	-8% ▼	0%	
Idaho Site Office	181.6	66% ▲	2,054	40% ▲	0.088	19% ▲	13%	51% ▲
Nevada Test Site	3.6	-46% ▼	71	-39% ▼	0.050	-11% ▼	0%	0%
Oakland Site Office and Other Facilities	1.1		29		0.039		0%	
Lawrence Berkeley National Laboratory	1.2	60% ▲	22	22% ▲	0.054	31% ▲	0%	0%
Lawrence Livermore National Laboratory	10.0	-68% ▼	185	-20% ▼	0.054	-60% ▼	23%	-58% ▼
Stanford Linear Accelerator Center	10.4	165% ▲	359	141% ▲	0.029	10% ▲	0%	0%
Oak Ridge Site Office and Other Facilities	1.8	32% ▲	110	20% ▲	0.016	11% ▲	0%	0%
Oak Ridge Site	101.4	-12% ▼	1,988	-7% ▼	0.051	-6% ▼	2%	-66% ▼
Paducah Gaseous Diffusion Plant	2.8	-18% ▼	45	10% ▲	0.062	-25% ▼	0%	0%
Portsmouth Gaseous Diffusion Plant	2.6	38% ▲	45	41% ▲	0.058	-2% ▼	0%	0%
Ohio Site Office and Other Facilities	0.0	-89% ▼	2	-86% ▼	0.011	-22% ▼	0%	100% ▲
Fernald Environmental Management Project	48.8	216% ▲	846	38% ▲	0.058	130% ▲	0%	100% ▲
Mound Plant	1.0	-78% ▼	119	-22% ▼	0.008	-72% ▼	0%	0%
West Valley Project	14.5	-63% ▼	210	-13% ▼	0.069	-58% ▼	4%	-83% ▼
Rocky Flats Environmental Technology Site	28.3	-63% ▼	1,507	48% ▲	0.019	-75% ▼	0%	0%
Hanford Site	190.9	-7% ▼	2,022	-11% ▼	0.094	5% ▲	24%	34% ▲
Office of River Protection	13.2	-6% ▼	272	-6% ▼	0.049	0%	0%	0%
Savannah River Site	121.3	-40% ▼	2,360	-20% ▼	0.051	-24% ▼	3%	-85% ▼
Totals	989.2	-10% ▼	16,136	3% ▲	0.061	-12% ▼	14%	-17% ▼

Note: Boxed values (gray background) indicate the greatest value in each column.

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Exhibit B-4. Internal Dose by Site, 2003-2005.

Site	No. of Individuals with New Intakes*			Collective CEDE Dose from Intake (person-rem)			Average CEDE		
	2003	2004	2005	2003	2004	2005	2003	2004	2005
Los Alamos National Laboratory	179	90	116	20.131	8.613	5.618	0.112 ◀	0.096 ◀	0.048
Pantex	56	43	62	0.621	0.305	0.819	0.011	0.007	0.013
Sandia National Laboratory	5	0	0	0.012	0	0	0.002	0	0
Argonne Nat'l Lab - E	45	15	20	2.414	0.349	0.535	0.054	0.023	0.027
Argonne Nat'l Lab - W	0	4	0	0	0.049	0	0	0.012	0
Brookhaven Nat'l Lab	4	29	3	0.033	0.398	0.064	0.008	0.014	0.021
Idaho Site	24	28	27	0.666	0.584	1.017	0.028	0.021	0.038
Lawrence Berkeley Nat'l Lab	0	2	0	0	0.013	0	0	0.007	0
Lawrence Livermore Nat'l Lab	7	14	24	0.037	0.041	0.651	0.005	0.003	0.027
Oak Ridge Site	1,518 ◀	1,276 ◀	1,140 ◀	56.090 ◀	50.320 ◀	52.214 ◀	0.037	0.039	0.046
Paducah	3	13	0	0.026	0.153	0	0.009	0.012	0
Portsmouth	0	8	1	0	0.068	0.012	0	0.009	0.012
Ohio Site Office and Other Facilities	8	0	1	0.062	0	0.001	0.008	0	0.001
BMI-Columbus	28	0	0	0.093	0	0	0.003	0	0
Fernald	39	16	6	0.209	0.068	0.083	0.005	0.004	0.014
Mound Plant	357	177	119	5.777	4.459	0.990	0.016	0.025	0.008
West Valley Nuclear Services	9	0	0	0.390	0	0	0.043	0	0
Rocky Flats	134	68	5	5.698	5.730	0.655	0.043	0.084	0.131 ◀
Hanford Site	25	224	28	1.617	4.972	0.342	0.065	0.022	0.012
Office of River Protection			3			0.007			0.002
Savannah River Site	131	87	45	0.626	1.189	0.453	0.005	0.014	0.010
Totals	2,572	2,094	1,600	94.502	77.311	63.461	0.037	0.037	0.040

*Only includes intakes that occurred during the monitoring year. Individuals may be counted more than once.
Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-5. Neutron Dose Distribution by Site, 2005.

Site	No. Meas. Dose	Meas. <0.1	0.1-0.25	0.25-0.5	0.5-0.75	0.75-1.0	1-2	>2	Total Monitored*	No. of Individuals with Meas. Dose	% of Individuals with Meas. Dose	Collective Neutron Dose (person-rem)	Avg. Meas. Neutron Dose (rem)
Albuquerque Site Office and Other Facilities	783								783		0%		
Los Alamos National Laboratory	9,329	1,292	136	39	13	6	2		10,817	1,488 ◀	14% ◀	79.048 ◀	0.053
Pantex Plant	4,812	87	6	12					4,917	105	2%	8.054	0.077
Sandia National Laboratory	3,344		1						3,345	1	0%	0.168	0.168 ◀
Chicago Site Office and Other Facilities	537								537		0%		
Argonne National Laboratory - East	3,670	79	3						3,752	82	2%	2.382	0.029
Brookhaven National Laboratory	2,501	17							2,518	17	1%	0.200	0.012
Fermi National Accelerator Laboratory	1,600								1,600		0%		
Idaho Site	4,861	267	6	7	7				5,148	287	6%	14.931	0.052
Nevada Test Site	4,141	12	1						4,154	13	0%	0.640	0.049
Oakland Site Office and Other Facilities	314								314		0%		
Lawrence Berkeley National Laboratory	1,142	1							1,143	1	0%	0.038	0.038
Lawrence Livermore National Laboratory	9,694	26	7						9,727	33	0%	1.963	0.059
Stanford Linear Accelerator Center	5,403								5,403		0%		
Oak Ridge Site Office and Other Facilities	1,764								1,764		0%		
Oak Ridge Site	16,675	74	9	2					16,760 ◀	85	1%	4.661	0.055
Paducah Gaseous Diffusion Plant	1,120	30							1,150	30	3%	1.075	0.036
Portsmouth Gaseous Diffusion Plant	976	22							998	22	2%	0.632	0.029
Ohio Site Office and Other Facilities	31								31		0%		
Fernald Environmental Management Project	1,718								1,718		0%		
Mound Plant	304								304		0%		
West Valley	605								605		0%		
Rocky Flats Env. Tech. Site	2,008	2							2,010	2	0%	0.040	0.020
Hanford Site	8,062	946	31	3					9,042	980	11%	19.311	0.020
Office of River Protection	1,662	14							1,676	14	1%	0.192	0.014
Savannah River Site	7,406	365	51	2					7,824	418	5%	20.710	0.050
Totals	94,462	3,234	251	65	20	6	2		98,040	3,578	0%	154.045	0.760

*Represents the total number of monitoring records. The number of individuals specifically monitored for neutron radiation cannot be determined.
 Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
 Exhibit B-6a. Distribution of TEDE by Facility Type - 2003.

Total Effective Dose Equivalent (TEDE)

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Facility Type	Less than Meas.	Meas. 0-0.10	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1-2	2-3	3-4	4-5	>5	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Accelerator	9,260	1,004	86	25	3							10,378	11%	1,118	47.038	0.042
Fuel/Uran. Enrich.	5,040	648	50	10	5							5,753	12%	713	28.548	0.040
Fuel Fabrication	2,189	610	17	4								2,820	22%	631	16.192	0.026
Fuel Processing	2,328	947	114	18	1							3,408	32%	1,080	48.556	0.045
Maint. and Support	13,341	2,328	415	210	85	43	59	1				16,482	19%	3,141	365.825	0.116
Other	10,436	1,345	156	60	48	26	10				1	12,082	14%	1,646	149.294	0.091
Reactor	1,048	390	95	36	1							1,570	33%	522	37.864	0.073
Research, General	24,446	1,901	296	146	37	19	14					26,859	9%	2,413	205.769	0.085
Research, Fusion	322	118										440	27%	118	0.740	0.006
Waste Proc./Mgmt.	3,559	1,648	330	117	18						1	5,673	37%	2,114	159.917	0.076
Weapons Fab. & Test	13,056	2,926	646	284	89	29	14					17,044	23%	3,988	384.888	0.097
Totals	85,025	13,865	2,205	910	287	117	97	1			2	102,509	17%	17,484	1,444.631	0.083

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
 Exhibit B-6b. Distribution of TEDE by Facility Type - 2004.

Total Effective Dose Equivalent (TEDE)

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Facility Type	Less than Meas.	Meas. 0-0.10	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1-2	2-3	3-4	4-5	>5	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Accelerator	10,518	973	97	30	1		1					11,620	9%	1,102	50.976	0.046
Fuel/Uran. Enrich.	5,748	429	49	13								6,239	8%	491	21.671	0.044
Fuel Fabrication	1,586	599	16									2,201	28%	615	15.464	0.025
Fuel Processing	1,765	931	240	81	28	18						3,063	42%	1,298	129.476	0.100
Maint. and Support	14,343	2,522	452	165	29	7	13					17,531	18%	3,188	236.051	0.074
Other	10,393	1,374	193	114	29	8	3		1			12,115	14%	1,722	132.842	0.077
Reactor	338	164	69	37	16	9						633	47%	295	47.436	0.161
Research, General	21,608	1,415	260	102	28	21	10					23,444	8%	1,836	164.813	0.090
Research, Fusion	290	134	3									427	32%	137	1.542	0.011
Waste Proc./Mgmt.	3,999	1,828	337	60	6							6,230	36%	2,231	125.092	0.056
Weapons Fab. & Test	13,684	2,331	370	101	20		1	1				16,508	17%	2,824	168.995	0.060
Totals	84,272	12,700	2,086	703	157	63	28	1	1			100,011	16%	15,739	1,094.358	0.070

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
 Exhibit B-6c. Distribution of TEDE by Facility Type - 2005.

Total Effective Dose Equivalent (TEDE)

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Facility Type	Less than Meas.	Meas. 0-0.10	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1-2	2-3	3-4	4-5	>5	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Accelerator	11,050	1,204	87	22	3							12,366	11%	1,316	51.298	0.039
Fuel/Uran. Enrich.	475	106										581	18%	106	1.985	0.019
Fuel Fabrication	872	716	87	36	7							1,718	49%	846	48.829	0.058
Fuel Processing	1,112	485	67	23	3							1,690	34%	578	35.307	0.061
Maint. and Support	11,409	1,750	334	142	51	15	3					13,704	17%	2,295	193.899	0.084
Other	11,452	1,908	282	177	38	9	3	1				13,870	17%	2,418	194.786	0.081
Reactor	148	43	8	10								209	29%	61	6.038	0.099
Research, General	29,473	2,084	274	96	25	13	8					31,973	8%	2,500	169.528	0.068
Research, Fusion	264	149	1	1								415	36%	151	1.988	0.013
Waste Proc./Mgmt.	5,526	2,197	372	74	3							8,172	32%	2,646	146.265	0.055
Weapons Fab. & Test	10,124	2,895	240	63	11	5	4					13,342	24%	3,218	139.058	0.043
Totals	81,905	13,537	1,752	644	141	42	18	1				98,040	16%	16,135	988.981	0.061

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-7a. Collective TEDE by Site and Facility Type - 2003.

Site	Accelerator	Fuel / Uranium Enrichment	Fuel Fabrication	Fuel Processing	Maintenance and Support	Reactor	Research, General	Research, Fusion	Waste Processing/ Management	Weapons, Fab. and Testing	Other	Totals
Albuquerque Site Office and Other Facilities									1.1	0.2		1.3
Los Alamos National Laboratory	11.3				86.4		46.1	0.1	13.5		82.7	240.0
Pantex Plant										35.9		35.9
Sandia National Laboratory	1.7				1.0	2.7	1.2	0.1	1.3	0.8	1.5	10.2
Chicago Site Office and Other Facilities	0.0						0.6	0.6				1.2
Argonne National Laboratory - East							21.4					21.4
Argonne National Laboratory - West					0.0		28.7					28.8
Brookhaven National Laboratory	4.1				1.7	0.4	3.1		2.2		0.7	12.2
Fermi National Accelerator Laboratory	25.7											25.7
Idaho Site				16.9	7.8	24.5	5.8		7.9		1.3	64.0
Nevada Test Site					3.2							3.2
Oakland Site Office and Other Facilities							0.9					0.9
Lawrence Berkeley National Laboratory	0.1						1.0					1.0
Lawrence Livermore National Laboratory							36.4					36.4
Stanford Linear Accelerator Center	3.1											3.1
Oak Ridge Site Office and Other Facilities	1.0						0.3					1.3
Oak Ridge Site		24.8					28.7			62.5		116.0
Paducah Gaseous Diffusion Plant		3.2										3.2
Portsmouth Gaseous Diffusion Plant		0.6										0.6
Ohio Site Office and Other Facilities										0.0	0.7	0.7
Battelle Memorial Institute - Columbus					35.9							35.9
Fernald Environmental Management Project			16.2									16.2
Mound Plant					4.0					1.8	0.0	5.8
West Valley											41.7	41.7
Rocky Flats Environmental Technology Site										198.6		198.6
Hanford Site					211.6		14.7		34.1		20.4	280.8
Savannah River Site				31.7	14.3	10.3	17.0		99.9	85.1	0.2	258.6
Totals	47.0	28.5	16.2	48.6	365.8	37.9	205.8	0.7	159.9	384.9	149.3	1,444.6

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-7b. Collective TEDE by Operations/Site and Facility Type - 2004

Site	Accelerator	Fuel / Uranium Enrichment	Fuel Fabrication	Fuel Processing	Maintenance and Support	Reactor	Research, General	Research, Fusion	Waste Processing/ Management	Weapons, Fab. and Testing	Other	Totals
Albuquerque Site Office and Other Facilities									1.2	0.1		1.3
Los Alamos National Laboratory	7.7				38.0	0.1	34.3	0.1	1.0	0.1	43.3	124.5
Pantex Plant										24.3		24.3
Sandia National Laboratory	3.6				2.8	3.1	2.4	0.3	0.7	1.7	2.6	17.1
Chicago Site Office and Other Facilities							1.2	1.1			0.2	2.5
Argonne National Laboratory - East	6.2				0.2		10.4		2.4		1.4	20.5
Argonne National Laboratory - West							28.0					28.0
Brookhaven National Laboratory	7.9				2.1	11.6	1.0		1.0			23.7
Fermi National Accelerator Laboratory	20.6											20.6
Idaho Site				29.8	7.0	32.7	9.2		29.6		1.3	109.5
Nevada Test Site					6.6							6.6
Oakland Site Office and Other Facilities												
Lawrence Berkeley National Laboratory	0.1						0.7					0.7
Lawrence Livermore National Laboratory							31.2					31.2
Stanford Linear Accelerator Center	3.9											3.9
Oak Ridge Site Office and Other Facilities	1.1						0.2					1.3
Oak Ridge Site		16.4					35.0			64.1		115.5
Paducah Gaseous Diffusion Plant		3.4										3.4
Portsmouth Gaseous Diffusion Plant		1.9										1.9
Ohio Site Office and Other Facilities											0.2	0.2
Fernald Environmental Management Project			15.5									15.5
Mound Plant					3.8					0.7	0.0	4.6
West Valley											39.7	39.7
Rocky Flats Environmental Technology Site										77.4		77.4
Hanford Site					154.9		11.2		0.3		38.8	205.2
Office of River Protection					2.1				10.0		1.9	14.0
Savannah River Site				99.7	18.5				78.9	0.6	3.5	201.2
Totals	51.0	21.7	15.5	129.5	236.1	47.4	164.8	1.5	125.1	169.0	132.8	1,094.4

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-7c. Collective TEDE by Site and Facility Type - 2005

Site	Accelerator	Fuel / Uranium Enrichment	Fuel Fabrication	Fuel Processing	Maintenance and Support	Reactor	Research, General	Research, Fusion	Waste Processing/Management	Weapons, Fab. and Testing	Other	Totals
Albuquerque Site Office and Other Facilities							0.0		1.1	0.1		1.2
Los Alamos National Laboratory	11.8			0.0	42.7	0.0	38.1	0.3	1.5	0.0	60.9	155.3
Pantex Plant										44.2		44.2
Sandia National Laboratory	.8				1.0	2.3	1.2	0.5	0.2	1.1	1.4	8.5
Chicago Site Office and Other Facilities							0.5	1.2			0.1	1.8
Argonne National Laboratory. - East	7.1				0.1		7.7		1.9		0.2	17.0
Brookhaven National Laboratory	3.5				1.2	3.8	1.1		0.6			10.2
Fermi National Accelerator Laboratory	16.1											16.1
Idaho Site							48.1		48.5		85.0	181.6
Nevada Test Site					3.6							3.6
Lawrence Berkeley National Laboratory							1.2					1.2
Lawrence Livermore National Laboratory							9.4				0.6	10.0
Oakland Site Office and Other Facilities							1.1					1.1
Stanford Linear Accelerator Center	10.4											10.4
Oak Ridge Site Office and Other Facilities	1.5						0.3					1.8
Oak Ridge Site		2.0					34.6			64.8		101.4
Paducah Gaseous Diff. Plant							2.8					2.8
Portsmouth Gaseous Diff. Plant							2.6					2.6
Ohio Site Office and Other Facilities									0.0		0.0	0.0
Fernald Environmental Mgmt. Project			48.8									48.8
Mound Plant									1.0			1.0
West Valley									14.5			14.5
Rocky Flats Environmental Tech. Site										28.3		28.3
Hanford Site					135.8	0.0	13.5		0.4		41.1	190.8
Office of River Protection					1.4				10.4		1.4	13.2
Savannah River Site				35.3	8.1		7.2		66.1	0.6	4.0	121.3
Totals	51.2	2.0	48.8	35.3	193.9	6.1	149.3	2.0	146.2	139.1	194.7	988.7

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report

Exhibit B-8. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Accelerator Facilities, 2005.

Accelerators

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	>2	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Los Alamos National Laboratory	379	176	17	9	1				582	35%	203	11.836	0.058
Argonne National Laboratory - East	1,405	118	17	2	2				1,544	9%	139	7.130	0.051
Brookhaven National Laboratory	1,089	80	11						1,180	8%	91	3.501	0.038
Fermilab	1,175	385	29	11					1,600	27%	425	16.130	0.038
Sandia National Laboratory	422	26	1						449	6%	27	0.812	0.030
Stanford Linear Accelerator Center	5,044	349	10						5,403	7%	359	10.370	0.029
Thomas Jefferson Nat'l Accel Facil	1,529	70	2						1,601	4%	72	1.519	0.021
Johnson Controls, Inc.	1								1	0%		0	
Oak Ridge Field Office	6								6	0%		0	
Totals	11,050	1,204	87	22	3				12,366	11%	1,316	51.298	0.039

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report

Exhibit B-9. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Fuel Facilities, 2005.

FUEL FACILITIES

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	>2	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
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ENRICHMENT

British Nuclear Fuels Ltd - (BNFL) - ETPP	475	106							581	18%	106	1.985	0.019
Totals	475	106							581	18%	106	1.985	0.019

FABRICATION

Fluor Fernald - FEMP	586	423	65	25	5				1,104	47%	518	32.748	0.063
Fluor Fernald Construction Subcontractors	272	284	22	11	2				591	54%	319	15.878	0.050
FEMP Office Service Subcontractors	5	3							8	38%	3	0.092	0.031
Fernald Environmental Management Project Office	8	6							14	43%	6	0.111	0.019
Fluor Fernald Service Vendors	1								1	0%		0	
Totals	872	716	87	36	7				1,718	49%	846	48.829	0.058

PROCESSING

Westinghouse Savannah River Co.	962	451	67	23	3				1,506	36%	544	34.485	0.063
Wackenhut Services, Inc. - SR	96	28							124	23%	28	0.761	0.027
Westinghouse S. R. Subcontractors	31	5							36	14%	5	0.053	0.011
Savannah River Field Office	21	1							22	5%	1	0.008	0.008
Los Alamos National Laboratory	1								1	0%		0	
Misc. S.R.S. Construction Subcontractors	1								1	0%		0	
Totals	1,112	485	67	23	3				1,690	34%	578	35.307	0.061

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-10. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Maintenance and Support, 2005.

MAINTENANCE AND SUPPORT

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	2.00-3.00	3.00-4.00	>4.00	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Fluor Northwest Services	18	18	12	4	1						53	66%	35	4.320	0.123
Fluor Hanford, Inc.	1,842	898	218	102	43	10	1				3,114	41%	1,272	130.262	0.102
Los Alamos National Laboratory	1,080	242	43	27	6	4	2				1,404	23%	324	31.731	0.098
Bechtel Nevada - NTS	2,143	52	8								2,203	3%	60	3.176	0.053
CH2M HILL Hanford Group, Inc.	119	21	3								143	17%	24	1.248	0.052
Westinghouse Savannah River Co.	133	136	14	4	1						288	54%	155	8.085	0.052
Johnson Controls, Inc.	1,253	199	28	4		1					1,485	16%	232	10.677	0.046
Fluor Federal Services	33	16	3								52	37%	19	0.840	0.044
Sandia National Laboratory	617	18	4								639	3%	22	0.960	0.044
Protection Technology Hanford	18	2									20	10%	2	0.078	0.039
Bechtel Nevada - Las Vegas	537	7	1								545	1%	8	0.298	0.037
Duratek Federal Services of Hanford	35	6									41	15%	6	0.208	0.035
Duratek Federal Services, Inc.	11	1									12	8%	1	0.032	0.032
Bechtel Nevada - Washington Aerial Meas	44	3									47	6%	3	0.087	0.029
Battelle - PNNL	27	3									30	10%	3	0.080	0.027
Advance Technology Laboratories	33	7									40	18%	7	0.178	0.025
Brookhaven National Laboratory	1,110	74		1							1,185	6%	75	1.201	0.016
Cogema Engineering Corporation	7	1									8	13%	1	0.012	0.012
NNSA Los Alamos Site Office	71	5									76	7%	5	0.059	0.012
Westinghouse S.R. Subcontractors	3	2									5	40%	2	0.021	0.011
Argonne National Laboratory - East	370	7									377	2%	7	0.073	0.010
Protection Technologies Los Alamos	517	29									546	5%	29	0.266	0.009
Numatec Hanford, Inc.	3	1									4	25%	1	0.003	0.003
Lockheed Martin Services, Inc.	14	2									16	13%	2	0.004	0.002
B.N. - NTS Subcontractors	26										26	0%		0	
Bechtel Hanford	3										3	0%		0	
Bechtel Nevada - Special Tech Lab	17										17	0%		0	
DOE-Richland Field	8										8	0%		0	

Office															
Nevada Misc Contractors	279										279	0%		0	
Nevada Operations	459										459	0%		0	
Nye County Sheriff	5										5	0%		0	
Savannah River Field Office	1										1	0%		0	
Wackenhut Services, Inc. - NV	538										538	0%		0	
Yucca Mountain Project	35										35	0%		0	
Totals	11,409	1,750	334	142	51	15	3				13,704	17%	2,295	193.899	0.084

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report

Exhibit B-11. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Reactor Facilities, 2005.

REACTOR FACILITIES													
Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)													
Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	>2	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Brookhaven National Laboratory	41	11	2	9					63	35%	22	3.763	0.171
Sandia National Laboratory	104	31	6	1					142	27%	38	2.264	0.060
Los Alamos National Laboratory	2	1							3	33%	1	0.011	0.011
Battelle - PNNL	1								1	0%		0	
Totals	148	43	8	10					209	29%	61	6.038	0.099

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-12. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Research, General, 2005.

RESEARCH, GENERAL

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	2.00-3.00	3.00-4.00	>4.00	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Uranium Disposition Services - Portsmouth Sub	13	5	8								26	50%	13	1.517	0.117
Battelle - PNNL	608	87	16	9	4	2					726	16%	118	13.460	0.114
NNSA Los Alamos Site Office	2		1								3	33%	1	0.100	0.100
Argonne National Laboratory - East	1,522	73	6	10	2						1,613	6%	91	7.720	0.085
INL - BEA LLC - Services	1,427	448	79	21	7	7	4				1,993	28%	566	48.101	0.085
Los Alamos National Laboratory	1,484	375	65	25	7	2	4				1,962	24%	478	38.025	0.080
UT-Battelle: ORNL	6,394	294	47	21	2	1					6,759	5%	365	26.122	0.072
Brookhaven National Laboratory	32	14	1	1							48	33%	16	1.142	0.071
Uranium Disposition Services - Paducah Sub	48	11									59	19%	11	0.727	0.066
Bechtel Jacobs - Paducah	991	25	4	3							1,023	3%	32	2.029	0.063
Lawrence Berkeley National Laboratory	1,121	19	3								1,143	2%	22	1.180	0.054
Lawrence Livermore National Laboratory	8,358	164	6	3	3	1					8,535	2%	177	9.302	0.053
Bechtel Jacobs - Portsmouth	488	18	3								509	4%	21	0.934	0.044
Bechtel Jacobs - ETPP	2,157	48	7								2,212	2%	55	2.378	0.043
New Brunswick Laboratory - Research	23	4									27	15%	4	0.160	0.040
Boeing North America Inc. - Research	135	25	4								164	18%	29	1.140	0.039
Sandia National Laboratory	484	28	3								515	6%	31	1.170	0.038
Westinghouse Savannah River Co.	605	174	16	1							796	24%	191	7.015	0.037
Bechtel Jacobs - ORNL	1,177	146	5	2							1,330	12%	153	5.426	0.035
LLNL Subcontractors	748	3									751	0%	3	0.095	0.032
Ames Laboratory (Iowa State)	133	14									147	10%	14	0.339	0.024
Theta Pro2Serve Management Co. - Ports	126	1									127	1%	1	0.024	0.024
UT-Battelle: Foster Wheeler	127	29									156	19%	29	0.645	0.022
Wackenhut Services SR	24	3									27	11%	3	0.058	0.019
USEC - Oak Ridge	82	2									84	2%	2	0.034	0.017
LATA/Parralax, LLC - Portsmouth	326	10									336	3%	10	0.152	0.015
Wackenhut Services	225	3									228	1%	3	0.040	0.013
Westinghouse S.R. Subcontractors	30	10									40	25%	10	0.117	0.012
											4	75%	3	0.032	0.011

Idaho Field Office	1	3													
Swift & Staley Mech Contr Inc - Paducah	66	2									68	3%	2	0.022	0.011
Bechtel Jacobs: Y-12	264	1									265	0%	1	0.010	0.010
Savannah River Field Office	13	2									15	13%	2	0.015	0.008
Oak Ridge Institute for Science & Education (ORISE)	37	36									73	49%	36	0.253	0.007
University of Georgia - Ecology Laboratory	19	5									24	21%	5	0.034	0.007
National Renewable Energy Lab: GO	16	2									18	11%	2	0.010	0.005
Duratek Federal Services of Hanford	1										1	0%		0	
Fluor Hanford, Inc.	1										1	0%		0	
Johnson Controls, Inc.	5										5	0%		0	
Misc. S.R.S. Construction Subcontractors	3										3	0%		0	
Oakland Field Office	150										150	0%		0	
Protection Technologies Los Alamos	7										7	0%		0	
Totals	29,473	2,084	274	96	25	13	8				31,973	8%	2,500	169.528	0.068

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report

Exhibit B-13. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Research, Fusion, 2005.

RESEARCH, FUSION													
Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)													
Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	>2	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Sandia National Laboratory	28	4		1					33	15%	5	0.547	0.109 ◀
Los Alamos National Laboratory	27	9	1						37	27%	10	0.277	0.028
Princeton Plasma Physics Laboratory	209	136							345 ◀	39% ◀	136 ◀	1.164 ◀	0.009
Totals	264	149	1	1					415	36%	151	1.988	0.013

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-14. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Waste Processing, 2005.

WASTE PROCESSING

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	>2	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Fluor Hanford, Inc.	8			1					9	11%	1	0.414	0.414 ↘
Argonne National Laboratory - East	104	17	4	2					127	18%	23	1.864	0.081
INL - BEA, LLC - Services	901	523	127	32					1,583	43%	682	48.504	0.071
Misc. S.R.S. Construction Subcontractors	29	13	6						48	40%	19	1.323	0.070
West Valley Site Office	395	163	41	5	1				605	35%	210	14.530	0.069
Westinghouse S.R. Subcontractors	105	62	15	2					184	43%	79	4.627	0.059
Los Alamos National Lab	43	22	5	1					71	39%	28	1.549	0.055
Westinghouse Savannah River Co.	1,906	874	150	28	2				2,960 ↘	36%	1,054 ↘	57.965 ↘	0.055
Brookhaven National Lab	30	10	2						42	29%	12	0.609	0.051
CH2M Hill Hanford Group, Inc.	856	193	22	3					1,074	20%	218	10.338	0.047
Sandia National Laboratory	106	11							117	9%	11	0.220	0.020
Wackenhut Services, Inc. - SR	190	106							296	36%	106	2.112	0.020
Carlsbad Area Misc. Contractors	542	72							614	12%	72	1.124	0.016
Advanced Technology Laboratories	15	2							17	12%	2	0.029	0.015
BWXT Technologies Inc.	96	65							161	40%	65	0.548	0.008
BWXT Technologies Inc. - Subcontractors	89	54							143	38%	54	0.452	0.008
Savannah River Field Office	52	9							61	15%	9	0.056	0.006
Miamisburg Env Mgmt Project Office	1	1							2	50% ↘	1	0.001	0.001
Battelle - PNNL	1								1	0%		0	
Bechtel National Corporation	2								2	0%		0	
Carlsbad Site Office	1								1	0%		0	
DOE-Richland Field Office	1								1	0%		0	
Duratek Federal Services, Inc.	1								1	0%		0	
NNSA Los Alamos Site Office	1								1	0%		0	
Office of River Protection	4								4	0%		0	
Waste Isolation Pilot Project	47								47	0%		0	
Totals	5,526	2,197	372	74	3				8,172	32%	2,646	146.265	0.055

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-15. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Weapons Fabrication, 2005.

WEAPONS FABRICATION

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	2.0-3.0	>3	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
BWXT - Amarillo	3,732	206	64	34	11	5	4			4,056	8%	324	43.527	0.134
BWXT - Amarillo Security Forces	694	6	3							703	1%	9	0.622	0.069
BWXT, Y-12	3,953	1,082	167	27						5,229	24%	1,276	64.837	0.051
Sandia National Laboratory	708	39	1	1						749	5%	41	1.128	0.028
Rocky Flats Office	24	22								46	48%	22	0.522	0.024
Rocky Flats Prime Contractors	189	805	2							996	81%	807	16.017	0.020
Rocky Flats Subcontractors	290	674	3	1						968	70%	678	11.730	0.017
Westinghouse Savannah River Co.	283	35								318	11%	35	0.563	0.016
NNSA Amarillo Site Office	81	1								82	1%	1	0.015	0.015
Los Alamos National Laboratory	6	1								7	14%	1	0.010	0.010
Honeywell, Federal Manufacturing & Techno	73	24								97	25%	24	0.087	0.004
BWXT Subcontractors	76									76	0%		0	
NNSA Kansas City Site Office	6									6	0%		0	
Wackenhut Services, Inc. - SR	8									8	0%		0	
Westinghouse S.R. Subcontractors	1									1	0%		0	
Totals	10,124	2,895	240	63	11	5	4			13,342	24%	3,218	139.058	0.043

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-16. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Other, 2005.

OTHER

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Site/Contractor	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.00-2.00	2.0-3.0	>3	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Fluor Northwest Services	129	82	33	26	6					276	53%	147	20.681	0.141
Lawrence Livermore National Laboratory - Nevada	436	2	3							441	1%	5	0.630	0.126
ICP - CWI, Construction Subs	734	538	119	105	10	4				1,510	51%	776	84.040	0.108
Office of River Protection	110	1	1							112	2%	2	0.203	0.102
Battelle - PNNL	1,204	51	14	6	2					1,277	6%	73	6.533	0.089
Los Alamos National Laboratory	3,679	707	71	36	18	5	3	1		4,520	19%	841	60.588	0.072
Idaho Field Office	12	2	1							15	20%	3	0.206	0.069
CH2M Hill Hanford Group, Inc.	249	15	4							268	7%	19	1.197	0.063
Duratek Federal Services, Inc.	59	9		1						69	14%	10	0.587	0.059
Fluor Federal Services	192	42	2		2					238	19%	46	2.519	0.055
Bechtel Hanford	1,628	154	17	1						1,800	10%	172	7.444	0.043
Westinghouse Savannah River Co.	766	59	5	2						832	8%	66	2.824	0.043
SM Stoller - EM	6	20								26	77%	20	0.694	0.035
Fluor Hanford, Inc.	480	61	3							544	12%	64	1.987	0.031
Johnson Controls, Inc.	43	8	1							52	17%	9	0.275	0.031
DOE-Richland Field Office	533	29	3							565	6%	32	0.959	0.030
Sandia National Laboratory	654	44	3							701	7%	47	1.416	0.030
Cogema Engineering Corporation	49	9								58	16%	9	0.262	0.029
Argonne National Laboratory East	84	7								91	8%	7	0.197	0.028
Wackenhut Services, Inc. - SR	8	1								9	11%	1	0.028	0.028
Misc. S.R.S. Construction Subcontractors	63	28	2							93	32%	30	0.823	0.027
Protection Technology Hanford	5	6								11	55%	6	0.143	0.024
Environmental Measurements Lab - Research	13	5								18	28%	5	0.115	0.023
RMI Environmental Services	28	1								29	3%	1	0.021	0.021
Westinghouse S.R. Subcontractors	96	14								110	13%	14	0.300	0.021
Duratek Federal Services of Hanford	39	2								41	5%	2	0.030	0.015
Bechtel BWXT Idaho - Construction		2								2	100%	2	0.024	0.012
Stoller Service Subs - Grand Junction	13	2								15	13%	2	0.015	0.008
Protection Technologies Los	41	5								46	11%	5	0.035	0.007

Alamos														
NNSA Los Alamos Site Office	7	1								8	13%	1	0.005	0.005
Savannah River Field Office	11	1								12	8%	1	0.005	0.005
Advancedmed Hanford	32									32	0%		0	
Advance Technology Laboratories	14									14	0%		0	
Bechtel National Corporation	2									2	0%		0	
Lockheed Martin Services, Inc.	28									28	0%		0	
Misc DOE Contractors - SR	4									4	0%		0	
NUMATEC Hanford, Inc.	1									1	0%		0	
Totals	11,452	1,908	282	177	38	9	3	1		13,870	17%	2,418	194.786	0.081

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-17. Internal Dose by Facility Type and Nuclide, 2003-2005.

Facility Type	Nuclide*	No. of Individuals with New Intakes**			Collective CEDE (person-rem)			Average CEDE (rem)		
		2003	2004	2005	2003	2004	2005	2003	2004	2005
Accelerator	Americium		2			0.042			0.021	
	Hydrogen-3	3	1	3	0.023	0.005	0.031	0.008	0.005	0.010
	Mixed			2			0.034			0.017
	Plutonium	1	1		0.006	0.100		0.006	0.100	
	Uranium	3	1		0.013	0.011		0.004	0.011	
	Total	7	5	5	0.042	0.158	0.065	0.006	0.032	0.013
Fuel Fabrication	Other		1	1		0.001	0.031		0.001	0.031
	Thorium	18	15	5	0.074	0.067	0.052	0.004	0.004	0.010
	Uranium	21			0.135			0.006		
	Total	39	16	6	0.209	0.068	0.083	0.005	0.004	0.014
Fuel Processing	Americium	1			0.014			0.014		
	Hydrogen-3	102	5		0.286	0.049		0.003	0.010	
	Plutonium	5	13	2	0.110	0.691	0.030	0.022	0.053	0.015
	Uranium		1			0.012			0.012	
	Total	108	19	2	0.410	0.752	0.030	0.004	0.040	0.015
Fuel/Uranium Enrichment	Americium	4	6		0.006	0.194		0.006	0.032	
	Other	1	2	47	0.006	0.005	0.524	0.006	0.003	0.011
	Plutonium	2	7		0.004	0.428		0.002	0.061	
	Thorium	2	10		0.021	0.128		0.011	0.013	
	Uranium	372	158		6.618	1.688		0.018	0.011	
	Total	381	183	47	6.655	2.443	0.524	0.018	0.013	0.011
Maintenance and Support	Americium	36	11	7	1.509	0.195	0.082	0.042	0.018	0.012
	Hydrogen-3	66	51	7	0.422	0.483	0.018	0.006	0.009	0.003
	Mixed and Other	9	10	12	0.048	0.014	1.150	0.005	0.001	0.096
	Plutonium	203	246	20	4.122	6.635	0.855	0.020	0.027	0.043
	Radon-222									
	Thorium	13	5		0.240	0.080		0.018	0.016	
	Uranium	18	10		0.070	0.054		0.004	0.005	
	Total	345	333	46	6.411	7.461	2.105	0.019	0.022	0.046
Other	Americium	4		6	0.309		0.050	0.077		0.008
	Hydrogen-3	24	7	18	0.065	0.021	0.068	0.003	0.003	0.004
	Mixed	1	7	10	0.002	0.076	0.427	0.002	0.011	0.043
	Other		2			0.004			0.002	
	Plutonium	33	55	34	7.841	5.287	1.528	0.238	0.096	0.045
	Radon-222	19	12	21	0.568	0.160	0.625	0.030	0.013	0.030
	Thorium		9			0.102			0.011	
	Uranium	22	25		0.106	0.100		0.005	0.004	
	Total	103	117	89	8.891	5.750	2.698	0.086	0.049	0.030
Reactor	Americium		12	1		0.221	0.010		0.018	0.010
	Hydrogen-3	10	2		0.014	0.047		0.001	0.024	
	Mixed		4			0.035			0.009	

	Plutonium		1			0.100			0.100	
	Uranium			1			0.043			0.043
	Total	10	19	2	0.014	0.403	0.053	0.001	0.021	0.027
Research, Fusion	Hydrogen-3	1			0.008			0.008		
	Total	1			0.008			0.008		
Research, General	Americium	20	6	9	1.078	0.059	0.464	0.054	0.010	0.052
	Hydrogen-3	21	26	39	0.139	0.101	0.162	0.007	0.004	0.004
	Mixed	1	14	10	0.002	0.060	1.086	0.002	0.004	0.109
	Other			7			0.311			0.044
	Plutonium	58	21	27	4.624	4.572	1.441	0.080	0.218 ◀	0.053
	Uranium	19	15	3	0.070	0.081	0.038	0.004	0.005	0.013
	Total	119	82	95	5.913	4.873	3.502	0.050	0.059	0.037
Waste Processing	Americium	1	5	6	0.021	0.090	0.096	0.021	0.018	0.016
	Hydrogen-3	7	11	27	0.023	0.062	0.097	0.003	0.006	0.004
	Mixed	9		40	0.134		0.708	0.015		0.018
	Plutonium	5	7	63	9.818	0.230	0.443	1.964 ◀	0.033	0.007
	Thorium			3			0.086			0.029
	Uranium	2		1	0.003		0.008	0.002		0.008
	Total	24	23	140	9.999	0.382	1.438	0.417	0.017	0.010
Weapons Fab. and Testing	Americium	15			0.172			0.011		
	Hydrogen-3	37	64	82	0.252	0.543	0.952	0.007	0.008	0.012
	Mixed	1	2		0.001	0.011		0.001	0.006	
	Other		3	5		0.007	0.655		0.002	0.131 ◀
	Plutonium	185	88		6.999	6.132		0.038	0.070	
	Thorium	50	30		0.595	0.245		0.012	0.008	
	Uranium	1,150 ◀	1,110 ◀	1,081 ◀	47.931 ◀	48.083 ◀	51.356 ◀	0.042	0.043	0.048
	Total	1,438	1,297	1,168	55.950	55.021	52.963	0.039	0.042	0.045
Totals	2,575	2,094	1,600	94.502	77.311	63.461	0.037	0.037	0.040	

*Intakes grouped by nuclide. Intakes involving multiple nuclides were grouped into "mixed."

Nuclides where fewer than 10 individuals had intakes were grouped as "other."

**Individuals may be counted more than once.

Note: Arrowed values indicate the the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-18a. Distribution of TEDE by Labor Category - 2003.

Total Effective Dose Equivalent (TEDE)

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Labor Category	Less than Meas.	Meas. 0-0.10	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1-2	2-3	3-4	>4	>5	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Agriculture	99											99	0%	0	0	0
Construction	4,488	1,631	162	60	11	1						6,353	29%	1,865	93.518	0.050
Laborers	1,329	428	83	15	4							1,859	29%	530	31.930	0.060
Management	9,064	1,732	258	83	16	1	5					11,159	19%	2,095	129.434	0.062
Miscellaneous	3,503	914	135	82	29	7	3					4,673	25%	1,170	103.246	0.088
Production	2,794	1,645	363	237	83	60	43					5,225	47%	2,431	349.143	0.144
Scientists	21,974	2,409	206	65	16	3						24,673	11%	2,699	120.438	0.045
Service	4,074	670	142	13	4		1					4,904	17%	830	44.240	0.053
Technicians	7,581	1,902	546	209	65	22	14					10,339	27%	2,758	297.298	0.108
Transport	1,182	229	12	6								1,429	17%	247	9.304	0.038
Unknown	28,937	2,305	298	140	59	23	31	1			2	31,796	9%	2,859	266.080	0.093
Totals	85,025	13,865	2,205	910	287	117	97	1	0	0	2	102,509	17%	17,484	1,444.631	0.083

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-18b. Distribution of TEDE by Labor Category - 2004.

Total Effective Dose Equivalent (TEDE)

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Labor Category	Less than Meas.	Meas. 0-0.10	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1-2	2-3	3-4	4-5	>5	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Agriculture	148	2										150	1%	2	0.023	0.012
Construction	4,282	1,570	157	45	13	6	1					6,074	30%	1,792	95.341	0.053
Laborers	1,600	339	92	18	4	1						2,054	22%	454	34.430	0.076
Management	8,808	1,690	188	63	13	3						10,765	18%	1,957	104.527	0.053
Miscellaneous	3,234	951	195	78	23	7						4,488	28%	1,254	106.082	0.085
Production	2,756	1,494	477	195	43	12	9	1				4,987	45% ◀	2,231	241.986 ◀	0.108 ◀
Scientists	21,191	2,172	162	40	5	6	3					23,579	10%	2,388	96.548	0.040
Service	3,629	492	134	16	1							4,272	15%	643	38.431	0.060
Technicians	7,652	1,820	416	156	27	17	6		1			10,095	24%	2,443 ◀	218.953	0.090
Transport	1,396	194	12	9								1,611	13%	215	8.802	0.041
Unknown	29,576	1,976	253	83	28	11	9					31,936 ◀	7%	2,360	149.235	0.063
Totals	84,272	12,700	2,086	703	157	63	28	1	1			100,011	16%	15,739	1,094.358	0.070

Note: Arrowed values indicate the greatest value in each column.

**DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-18c. Distribution of TEDE by Labor Category - 2005.**

Total Effective Dose Equivalent (TEDE)

Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)

Labor Category	Less than Meas.	Meas. 0-0.10	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1-2	2-3	3-4	4-5	>5	Total Monitored	Percent of Monitored with Meas. TEDE	No. with Meas. TEDE	Collective TEDE (person-rem)	Avg. Meas. TEDE (rem)
Agriculture	142	3										145	2%	3	0.072	0.024
Construction	3,564	1,345	150	36	3	1						5,099	30%	1,535	73.347	0.048
Laborers	1,666	451	103	35	10	1						2,266	26%	600	48.725	0.081
Management	8,196	1,276	112	36	4							9,624	15%	1,428	63.631	0.045
Miscellaneous	5,829	1,230	135	96	12	6						7,308	20%	1,479	100.076	0.068
Production	2,554	1,477	409	161	50	14	5					4,670	45%	2,116	216.755	0.102
Scientists	22,701	2,556	131	30	4	3						25,425	11%	2,724	91.219	0.033
Service	3,251	573	26	6	1	3						3,860	16%	609	22.155	0.036
Technicians	8,434	1,990	381	130	25	5						10,965	23%	2,531	184.235	0.073
Transport	1,630	335	35	10								2,010	19%	380	16.190	0.043
Unknown	23,938	2,301	270	104	33	12	9	1				26,668	10%	2,730	172.576	0.063
Totals	81,905	13,537	1,752	644	142	45	14	1				98,040	16%	16,135	988.981	0.061

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-19. Internal Dose by Labor Category, 2003-2005.

Labor Category	No. of Individuals with New Intakes*			Collective CEDE Dose from Intake (person-rem)			Average CEDE		
	2003	2004	2005	2003	2004	2005	2003	2004	2005
Construction	450	389	236	9.601	8.678	6.769	0.021	0.022	0.029
Laborers	62	88	59	3.151	2.989	2.363	0.051 ◀	0.034	0.040
Management	162	177	124	6.157	5.764	4.697	0.038	0.033	0.038
Miscellaneous	102	39	19	3.944	1.786	0.596	0.039	0.046 ◀	0.031
Production	599	541 ◀	440 ◀	26.336	25.081 ◀	24.549 ◀	0.044	0.046 ◀	0.056 ◀
Scientists	193	198	168	4.945	5.638	5.340	0.026	0.028	0.032
Service	44	16	19	1.884	0.440	0.455	0.043	0.028	0.024
Technicians	299	269	182	8.342	10.744	7.215	0.028	0.040	0.040
Transport	5	11	2	0.024	0.143	0.023	0.005	0.013	0.012
Unknown	656 ◀	366	351	30.118 ◀	16.048	11.454	0.046	0.044	0.033
Totals	2,572	2,094	1,600	94.502	77.311	63.461	0.037	0.037	0.040

*Only included intakes that occurred during the monitoring year. Individuals may be counted more than once,
 Note: Arrowed values indicate the the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-20. Dose Distribution by Labor Category and Occupation, 2005.

Labor Category	Occupation	Less than Meas.	Meas. 0-0.1	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1-2	2-3	3-4	4-5	>5	Total Monitored	Percent with Meas.	No. with Meas.	Collective TEDE	Avg. Meas. TEDE
Agriculture	Groundskeepers	113	3										116	3%	3	0.072	0.024
	Misc. Agriculture	29											29	0%	0		
Construction	Carpenters	231	98	10	3								342	32%	111	4.868	0.044
	Electricians	910	433	15	1								1,359	33%	449	12.943	0.029
	Masons	18	8										26	31%	8	0.264	0.033
	Mechanics/Repairers	499	190	33	3								725	31%	226	12.527	0.055
	Miners/Drillers	117	7										124	6%	7	0.132	0.019
	Misc. Repair/Construction	1,324	387	30	14	2	1						1,758	25%	434	21.094	0.049
	Painters	102	44	4	1								151	32%	49	2.087	0.043
	Pipe Fitter	363	178	58	14	1							614	41%	251	19.432	0.077
Laborers	Handlers/Laborers/Helpers	1,666	451	103	35	10		1					2,266	26%	600	48.725	0.081
Management	Admin. Support & Clerical Sec.	3,213	415	62	28	2							3,720	14%	507	30.652	0.060
	Manager - Administrator	4,978	861	50	8	2							5,899	16%	921	32.979	0.036
	Sales	5											5	0%	0		
Misc.	Miscellaneous	5,829	1,230	135	96	12	6						7,308	20%	1,479	100.076	0.068
Production	Machine Setup/Operators	135	153	53	19								360	63%	225	20.895	0.093
	Machinists	170	51	8	12	1							242	30%	72	6.992	0.097
	Misc. Precision/Production	733	279	24	4								1,040	30%	307	11.933	0.039
	Operators, Plant/System/Util.	1,335	922	318	126	49	14	5					2,769	52%	1,434	173.866	0.121
	Sheet Metal Workers	123	51	5									179	31%	56	2.246	0.040
	Welders and Solderers	58	21	1									80	28%	22	0.823	0.037
Scientists	Doctors and Nurses	95	19	1	1								116	18%	21	0.933	0.044
	Engineer	7,349	936	40	9		1						8,335	12%	986	30.563	0.031
	Health Physicist	463	98	8									569	19%	106	3.287	0.031
	Misc. Professional	6,900	809	43	8		1						7,761	11%	861	26.084	0.030
	Scientist	7,894	694	39	12	4	1						8,644	9%	750	30.352	0.040
Service	Firefighters	473	75	2	2								552	14%	79	2.481	0.031
	Food Service Employees	6	2	1									9	33%	3	0.317	0.106
	Janitors	588	54	10	2								654	10%	66	4.131	0.063
	Misc. Service	377	61	7	2								447	16%	70	3.389	0.048
	Security Guards	1,807	381	6			1	3					2,198	18%	391	11.837	0.030
Technicians	Engineering Technicians	2,352	252	31	14	2	2						2,653	11%	301	19.359	0.064
	Health Technicians	106	21	13	1								141	25%	35	3.195	0.091
	Misc. Technicians	2,656	276	33	13	2							2,980	11%	324	18.768	0.058
	Radiation Monitors/Techs.	1,602	997	217	76	15	2						2,909	45%	1,307	102.766	0.079
	Science Technicians	865	192	35	9	1							1,102	22%	237	14.773	0.062
	Technicians	853	252	52	17	5	1						1,180	28%	327	25.374	0.078
Transport	Bus Drivers	21	5										26	19%	5	0.153	0.031
	Equipment Operators	437	111	20	6								574	24%	137	8.146	0.059
	Misc. Transport	496	38	12	4								550	10%	54	4.151	0.077

	Pilots	1										1	0%	0		
	Truck Drivers	675	181	3								859	21%	184	3.740	0.020
Unknown	Unknown	29,938	2,301	270	104	33	12	9	1			26,668 ◀	10%	2,730 ◀	172.576	0.063
Totals		81,905	13,537	1,752	644	141	42	18	1			98,040	16%	16,135	988.981	0.061

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-21. Internal Dose Distribution by Site and Nuclide, 2005.

Site	Nuclide	Number of Individuals Receiving Doses in Each Dose Range											Total Indiv. with Meas. TEDE	Collective CEDE (person-rem)	Avg. CEDE (rem)
		Meas. 0-0.02	0.02-0.10	0.10-0.25	0.25-0.50	0.50-0.75	0.75-1.00	1.0-2.0	2.0-3.0	3.0-4.0	4.0-5.0	>5.0			
Los Alamos National Laboratory	Americium		2										2	0.005	0.003
	Hydrogen-3		41	2									43	0.193	0.004
	Mixed		19	5	8	1	1	1					35	2.897	0.083
	Other		1										1	0.001	0.001
	Plutonium		14	4	16	1							35	2.522	0.072
Pantex Plant	Hydrogen-3		47	15									62	0.819	0.013
Argonne National Laboratory-East	Americium		1	3									4	0.117	0.029
	Other		2	1									3	0.062	0.021
	Plutonium		7	6									13	0.356	0.027
Brookhaven National Laboratory	Americium		1										1	0.010	0.010
	Hydrogen-3		1										1	0.011	0.011
	Uranium			1									1	0.043	0.043
Idaho Site	Americium		1	1									2	0.035	0.018
	Plutonium			3		1							4	0.357	0.089
	Radon-222		5	16									21	0.625	0.030
Lawrence Livermore National Laboratory	Americium			1									1	0.030	0.030
	Hydrogen-3		19										19	0.065	0.003
	Other				1								1	0.186	0.186
	Plutonium		1	1		1							3	0.370	0.123
Fernald Environmental Mgmt Project	Other			1									1	0.031	0.031
	Thorium		5										5	0.052	0.010
Mound Plant	Hydrogen-3		22	1									23	0.078	0.003
	Mixed		27	12									39	0.508	0.013
	Plutonium		48	5									53	0.310	0.006
	Thorium		1	2									3	0.086	0.029
	Uranium		1										1	0.008	0.008
Ohio	Hydrogen-3		1										1	0.001	0.001
Oak Ridge Site	Americium		3	1	1								5	0.232	0.046
	Hydrogen-3		3										3	0.014	0.005
	Other		47	2									49	0.586	0.012

	Uranium		468	470	128	17								1,083	51.382	0.047
Portsmouth	Uranium		1											1	0.012	0.012
Rocky Flats Environmental Technology Site	Other		1	2	1	1								5	0.655	0.131
Hanford Site	Americium		9	1										10	0.094	0.009
	Hydrogen-3		1											1	0.001	0.001
	Plutonium		13	4										17	0.247	0.015
Office of River Protection	Plutonium		3											3	0.007	0.002
Savannah River Site	Americium				1									1	0.172	0.172
	Hydrogen-3		22	1										23	0.146	0.006
	Plutonium		20	1										21	0.135	0.006
Totals			858	562	156	22	1	1						1,600	63.461	0.040

Note: Arrowed values indicate the greatest value in each column.

DOE Occupational Radiation Exposure: 2005 Annual Report
Exhibit B-22. Extremity Dose Distribution by Site, 2005.

Site	No. Meas. Dose	Meas. 0-0.1	0.10-1	1-5	5-10	10-20	20-30	>30	Total Monitored*	No. with Meas.	No. Above Monitoring Threshold (5 rem)**	Collective Extremity Dose (person-rem)	Avg. Meas. Extremity Dose (rem)
Albuquerque	780	3							783	3		0.130	0.043
Los Alamos National Laboratory	10,118	296	320	71	5	2	5		10,817	699	12	453.153	0.648
Pantex Plant	4,741	43	86	42	5				4,917	176	5	162.040	0.921 ◀
Sandia National Laboratory	3,345								3,345				
Argonne National Laboratory - East	3,653	74	21	3	1				3,752	99	1	26.954	0.272
Brookhaven National Laboratory	2,463	18	32	5					2,518	55		19.563	0.356
Chicago	468	59	10						537	69		4.168	0.060
Fermi National Accelerator Laboratory	1,594	2	2	2					1,600	6		4.500	0.750
Idaho Site	3,058	1,471	598	20	1				5,148	2,090 ◀	1	254.420	0.122
Nevada Test Site	4,134	9	9	2					4,154	20		6.628	0.331
Lawrence Berkeley National Laboratory	1,115	14	11	1	1	1			1,143	28	2	25.143	0.898
Lawrence Livermore National Laboratory	9,657	29	39	2					9,727	70		17.805	0.254
Oakland Operations	314								314				
Stanford Linear Accelerator Center	5,403								5,403				
Fernald Environmental Mgmt Project	1,707	10	1						1,718	11		0.511	0.046
Mound	304								304				
Ohio Field Office	31								31				
West Valley Nuclear	334	166	104		1				605	271	1	40.765	0.150
Oak Ridge Operations	1,764								1,764				
Oak Ridge Site	16,551	84	101	24					16,760 ◀	209		81.170	0.388
Paducah Gaseous Diff Plant	1,150								1,150				
Portsmouth Gaseous Diff Plant	998								998				
Rocky Flats Environmental Tech Site	2,010								2,010				
Hanford Site	8,035	241	560	182	14	10			9,042	1,007	24 ◀	834.992	0.829
Office of River Protection	1,302	160	206	8					1,676	374		76.680	0.205
Savannah River Site	6,845	300	516	147	15	1			7,824	979	16	611.249 ◀	0.624
Totals	91,874	2,979	2,616	509	43	14	5		98,040	6,166	62	2,619.871	0.425

*Represents the total number of monitoring records. The number of individuals provided extremity monitoring cannot be determined.

**All extremity doses above 5 rem were for the upper extremities (hands and forearms). DOE annual limit for extremities is 50 rem.

10 CFR 835.402(a)(1)(ii) requires extremity monitoring for a shallow dose equivalent to the skin or extremity of 5 rem or more in a year.

Note: Arrowed values indicate the greatest value in each column.