

DOE Occupational Radiation Exposure: 2007 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	Science Technicians
	0383	Radiation Monitors/Techs.
	0390	Misc. Technicians
Transport Workers	0820	Truck Drivers

Labor Category	Occupation Code	Occupation Name
	0821	Bus Drivers
	0825	Pilots
	0830	Equipment Operators
	0840	Misc. Transport
Unknown	0001	Unknown

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A-2. Organizations Reporting to DOE REMS, 2003-2007

Thirty sites reported occupational exposure data in 2007. The following is a list of all organizations reporting to the DOE REMS from 2003-2007. The list provides the Operations Field Office and Site groupings used in this report as well as the organization reporting code and name.

Operations/Field Office	Site	Organization Code	Organization Name	Year Reported*				
				'03	'04	'05	'06	'07
Albuquerque	Ops. and Other Facilities	530001	NNSA Kansas City Site Office	•	•	•	•	
		531002	Honeywell FM & T/KC Production	•	•	•	•	•
		590001	Waste Isolation Pilot Project (WIPP)	•	•	•	•	•
		593001	Carlsbad Area Office			•	•	•
		593004	Carlsbad Area Miscellaneous Contractors	•	•	•	•	•
	Golden Field Office	2806003	National Renewable Energy Lab (NREL) - GO	•	•	•	•	•
	Los Alamos National Lab. (LANL)	540001	NNSA Los Alamos Site Office	•	•	•	•	•
		544003	Los Alamos National Laboratory	•	•	•	•	•
		544809	Protection Technologies Los Alamos	•	•	•	•	•
		544904	Johnson Controls, Inc.	•	•	•	•	•
	Pantex Plant (PP)	510001	NNSA Amarillo Site Office	•	•	•	•	
		514004	Battelle - Pantex					•
		515002	BWXT - Amarillo	•	•	•	•	•
		515006	BWXT - Amarillo - Subcontractors	•	•	•	•	•
		515009	BWXT - Amarillo - Security Forces		•	•	•	•
	Sandia National Lab. (SNL)	578003	Sandia National Laboratory	•	•	•	•	•
Chicago	Ops. and Other Facilities	1000503	Ames Laboratory (Iowa State)	•	•	•	•	•
		1001501	Argonne Site Office	•	•			
		1001606	Chicago Office Subs	•	•			
		1002001	Environmental Meas. Lab. - Research	•	•	•		
		1004031	New Brunswick Laboratory - Research	•	•	•	•	•
		1005003	Princeton Plasma Physics Laboratory	•	•	•	•	•
	Argonne Nat'l Lab. - East (ANL-E)	1000703	Argonne National Laboratory - East	•	•			
	Argonne National Lab (ANL)	1000703	Argonne National Laboratory			•	•	•
	Argonne Nat'l Lab. - West (ANL-W)	1000713	Argonne National Laboratory - West	•	•			
	Brookhaven Nat'l Lab. (BNL)	1001003	Brookhaven National Laboratory	•	•	•	•	•
Fermi Nat'l Accelerator Lab. (FERMI)	1002503	Fermilab	•	•	•	•	•	
DOE HQ	DOE Headquarters	1504001	DOE Headquarters		•	•	•	
		1509503	Thomas Jefferson National Accel. Facility		•			
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	•	•	•	•	•
		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			•	•	•	•	•
4009503	Thomas Jefferson National Accel. Facility			•	•	•	•	•
Oak Ridge Site	4003602		UT-Battelle: Isotek					•
	4004602		UT-Battelle: Foster Wheeler	•	•	•	•	•
	4005104		USEC: Oak Ridge			•	•	•
	4006002		Bechtel-Jacobs Co., LLC-ETTP	•	•	•	•	•

Operations/Field Office	Site	Organization Code	Organization Name	Year Reported*				
				'03	'04	'05	'06	'07
		4006012	USEC: Oak Ridge		●	●		
		4006105	UT-Battelle - Materials & Energy Corp.					●
		4006302	British Nuclear Fuels Limited (BNFL) (ETTP)	●	●	●		
		4006503	UT-Battelle - ORNL	●	●	●	●	●
		4006510	Bechtel Jacobs - ORNL	●	●	●	●	●
		4007509	Wackenhut Services - OR Security	●	●	●	●	●
		4008010	Bechtel-Jacobs, Y-12	●	●	●	●	●
		4018102	BWXT LLC, Y-12	●	●	●	●	●
	Paducah Gas. Diff. Plant (PGDP)	4007002	Bechtel-Jacobs Co., LLC - Paducah	●	●	●	●	
		6203004	UT-Battelle - Paducah Remediation Services				●	●
		6203106	Uranium Disposition Services - Paducah Sub			●	●	●
		6203204	Swift & Staley Mech Contr, Inc. - Paducah	●	●	●		
	Portsmouth Gas. Diff. Plant (PORTS)	4002502	Bechtel-Jacobs - Portsmouth			●	●	●
		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)	0580001	LLNL - LLNL					
		0580403	Lawrence Livermore National Laboratory	●	●			●
		8004003	Lawrence Livermore National Laboratory			●	●	●
		0580404	LLNL Services	●	●			
		8004004	LLNL Services			●	●	
0580503		LLNL - Nevada	●	●			●	
Stanford Linear Acc. Center (SLAC)	8005003	LLNL - Nevada			●	●		
	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	●	●	●		
	Mound Plant	4523706	Fluor Fernald Construction Subcontractors	●	●	●	●	
		4516002	CH2M Hill-Mound, Inc.	●	●	●	●	
		4516004	CH2M Hill-Mound, Inc. - Service Subs	●	●	●	●	
	West Valley Project	4516009	CH2M Hill-Mound, Inc. - Security Forces	●	●			
		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	●	●	●	●	●
		7502504	Advance Med Hanford	●	●	●	●	●
		7505004	Fluor Daniel - Hanford	●	●	●	●	●
		7505005	Fluor Daniel Northwest	●	●	●	●	●
		7505006	Fluor Daniel Northwest Services	●	●	●	●	●
		7505024	Duratek Federal Services, Inc. - Hanford	●	●	●	●	●
		7505025	Duratek Federal Services, Inc.	●	●	●	●	●
		7505034	Duke Engineering Services Hanford	●	●	●	●	●
		7505044	NUMATEC Hanford	●	●	●	●	●
		7505055	Lockheed Martin Services, Inc.	●	●	●	●	●

Operations/Field Office	Site	Organization Code	Organization Name	Year Reported*				
				'03	'04	'05	'06	'07
		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				•	•
		8505004	SRS - WSRC					•
		8505501	Savannah River Field Office	•	•	•	•	•
		8505525	SRS - WSRC - Construction					•
		8505526	SRS - WSRC - Construction					•
		8507004	Miscellaneous DOE Contractors - SR	•		•	•	•
		8509003	Univ. of Georgia Ecology Laboratories	•	•	•	•	•
		8509504	Wackenhut Services, Inc. - SRS					•
		8509509	Wackenhut Services, Inc. - SR	•	•	•	•	•
Not included in this report (see Appendix D)								
Pittsburg Naval Reactor Office	Pittsburg Naval Reactor Office	6007504	PNR - BAPL & BPMI-P		•	•	•	•
		6008003	Pittsburg Naval Reactor		•	•	•	•
		6009003	PNR - Bechtel Bettis, Inc.		•	•	•	•
Schenectady Naval Reactor Office	Schenectady Naval Reactor Office	561914	Newport News Reactor Services					
		562403	LM-KAPL - Kesselring					
		562405	Gen. Dynam. - Kesselring - Electric Boat					
		562503	LM-KAPL - Knolls					
		562504	LM-KAPL - Knolls Service Subs					
		562516	CH2MHILL Knolls SPRU Project					
		562703	LM-KAPL - Windsor					
		562705	LM-KAPL - Windsor - Electric Boat					
		562001	Schenectady N.R. Office					
		9004003	LM-KAPL - Kesselring		•	•	•	•
		9005003	LM-KAPL - Knolls		•	•	•	•
9005004	LM-KAPL - Knolls Service Subs		•	•	•	•		

*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.

DOE Occupational Radiation Exposure: 2007 Annual Report 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 - 2005.

2005								
Site	Coll. 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	-22% ▼	160	-8% ▼	0.012	-16% ▼	0%	
Argonne National Laboratory	17	-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% ▼	0.05	-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	-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	-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	-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.

* Includes site office personnel from Albuquerque, Chicago, Oak Ridge, and Ohio in addition to several smaller facilities not associated with a DOE site.

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Exhibit B-2. Site Dose Data - 2006.

2006								
Site	Coll. TEDE (person-rem)	Percent Change from 2005	Number with Meas. Dose	Percent Change from 2005	Avg. Meas. TEDE (rem)	Percent Change from 2005	Percentage of Coll. TEDE above 0.500 rem	Percent Change from 2005
Ames Laboratory	0.2	-46% ▼	8	-43% ▼	0.023	-6% ▼		
Argonne National Laboratory	9.5	-44% ▼	158	-41% ▼	0.060	-5% ▼	8%	-43% ▼
Boeing North America, Inc. - Research	0.0	-97% ▼	5	-83% ▼	0.007	-82% ▼		
Brookhaven National Laboratory	6.1	-40% ▼	147	-32% ▼	0.042	-12% ▼		
Fermi National Accelerator Laboratory	25.7	60% ▲	776	83% ▲	0.033	-13% ▼	2%	
Fernald Environmental Management Project	16.8	-66% ▼	462	-45% ▼	0.036	-37% ▼		
Hanford								
Hanford Site	106.1	-38% ▼	1,451	-21% ▼	0.073	-22% ▼	15%	-38% ▼
Office of River Protection	13.5	2% ▲	278	2% ▲	0.049	0%		
Pacific Northwest National Laboratory	13.3	-34% ▼	182	-6% ▼	0.073	-30% ▼		
Honeywell, FM&T/KC Production	0.2	74% ▲	26	8% ▲	0.006	60% ▲		
Idaho Site Office	161.7	-11% ▼	2,023	-2% ▼	0.080	-10% ▼	17%	30% ▲
Lawrence Berkeley National Laboratory	0.9	-21% ▼	16	-27% ▼	0.059	9% ▲		
Lawrence Livermore National Laboratory	16.4	63% ▲	134	-28% ▼	0.122	125% ▲	41%	77% ▲
Los Alamos National Laboratory	164.0	5% ▲	1,985	-8% ▼	0.083	15% ▲	34%	25% ▲
Mound Plant	0.2	-84% ▼	15	-87% ▼	0.010	24% ▲		
Nevada Test Site	1.8	-50% ▼	39	-45% ▼	0.046	-9% ▼		
New Brunswick Laboratory	0.1	-47% ▼	2	-50% ▼	0.043	6% ▲		
Oak Ridge								
East Tennessee Technology Park	0.5	-90% ▼	22	-86% ▼	0.021	-24% ▼		
Oak Ridge Institute for Science and Education	0.0	-82% ▼	8	-78% ▼	0.006	-20% ▼		
Oak Ridge National Laboratory	25.6	-20% ▼	416	-24% ▼	0.062	5% ▲	9%	31% ▲
Y-12 NSC	53.3	-18% ▼	1,171	-8% ▼	0.045	-10% ▼	13%	
Paducah Gaseous Diffusion Plant	2.2	-21% ▼	25	-44% ▼	0.088	43% ▲		
Pantex Plant	39.7	-10% ▼	327	-2% ▼	0.121	-8% ▼		
Portsmouth Gaseous Diffusion Plant	2.2	-15% ▼	40	-11% ▼	0.056	-4% ▼		
Princeton Plasma Physics Laboratory	1.5	33% ▲	155	14% ▲	0.010	16% ▲		
RMI Environmental Services	1.5		66		0.023	11% ▲		
Sandia National Laboratory	22.0	158% ▲	268	21% ▲	0.082	114% ▲	44%	
Savannah River Site	107.2	-12% ▼	2,387	1% ▲	0.045	-13% ▼	1%	-77% ▼
Stanford Linear Accelerator Center	3.0	-71% ▼	102	-72% ▼	0.030	3% ▲		

2006								
Site	Coll. TEDE (person-rem)	Percent Change from 2005	Number with Meas. Dose	Percent Change from 2005	Avg. Meas. TEDE (rem)	Percent Change from 2005	Percentage of Coll. TEDE above 0.500 rem	Percent Change from 2005
Thomas Jefferson National Accelerator Facility	0.5	-65% ▼	29	-60% ▼	0.018	-12% ▼		
West Valley Project	16.1	11% ▲	189	-10% ▼	0.085	23% ▲		
Site Office Personnel*	0.7	-45% ▼	41	-52% ▼	0.018	14% ▲		
Totals	812.6	-18% ▼	12,953	-20% ▼	0.063	2% ▲	16%	8% ▲

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

* Includes site office personnel from Albuquerque, Chicago, Oak Ridge, and Ohio in addition to several smaller facilities not associated with a DOE site.

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Exhibit B-3. Site Dose Data - 2007

2007								
Site	Collective TEDE (person-rem)	Percent Change from 2006	Number with Meas. Dose	Percent Change from 2006	Avg. Meas. TEDE (rem)	Percent Change from 2006	Percentage of Coll. TEDE above 0.500 rem	Percent Change from 2006
Ames Laboratory	0.2		6		0.026			
Argonne National Laboratory	9.2	-3% ▼	146	-8% ▼	0.063	5% ▲	12%	53% ▲
Boeing North America, Inc. - Research	0.2		14		0.012			
Brookhaven National Laboratory	6.3	3% ▲	191	30% ▲	0.033	-21% ▼		
Fermi National Accelerator Laboratory	16.6	-36% ▼	213	-73% ▼	0.078	134% ▲	6%	226% ▲
Hanford - Hanford Site	124.2	17% ▲	1,650	14% ▲	0.075	3% ▲	18%	25% ▲
Hanford - Office of River Protection	22.8	69% ▲	397	43% ▲	0.057	18% ▲		
Hanford - Pacific Northwest National Laboratory	11	-17% ▼	181	-1% ▼	0.061	-17% ▼		
Honeywell, FM&T/KC Production	0.1		22		0.004			
Idaho National Laboratory	133.7	-17% ▼	1,871	-8% ▼	0.071	-11% ▼	7%	-59% ▼
Lawrence Berkeley National Laboratory	0.8		17		0.045			
Lawrence Livermore National Laboratory	15.5	-5% ▼	137	2% ▲	0.113	-7% ▼	40%	-3% ▼
Los Alamos National Laboratory	149.6	-9% ▼	1,392	-30% ▼	0.107	30% ▲	46%	34% ▲
Nevada Test Site	5.7	219% ▲	70	79% ▲	0.082	78% ▲		
New Brunswick Laboratory	0		2		0.014			
Oak Ridge - East Tennessee Technology Park	0.2		15		0.014			
Oak Ridge - Oak Ridge Institute for Science and Education	0.1		35		0.004			
Oak Ridge - Oak Ridge National Laboratory	31.8	24% ▲	424	2% ▲	0.075	22% ▲	19%	116% ▲
Oak Ridge - Y-12 National Security Complex	74.3	39% ▲	1,258	7% ▲	0.059	30% ▲	5%	
Paducah Gaseous Diffusion Plant	1.7	-25% ▼	29	16% ▲	0.057	-35% ▼		
Pantex Plant	23.9	-40% ▼	293	-10% ▼	0.082	-33% ▼	25%	40% ▲
Portsmouth Gaseous Diffusion Plant	1.5	-35% ▼	18	-55% ▼	0.081	44% ▲		
Princeton Plasma Physics Laboratory	1.4	-11% ▼	153	-1% ▼	0.009	-9% ▼		
Sandia National Laboratory	7.8	-64% ▼	175	-35% ▼	0.045	-46% ▼		
Savannah River Site	112.4	5% ▲	2,135	-11% ▼	0.053	17% ▲	7%	971% ▲
Stanford Linear Accelerator Laboratory	1.5	-52% ▼	41	-60% ▼	0.035	19% ▲		
Thomas Jefferson National Accelerator Facility	0.8		19		0.041			
West Valley Project	44.5	177% ▲	188	-1% ▼	0.237	179% ▲	42%	
Site Office Personnel*	0.3		10		0.025			
Totals	797.8	-2% ▼	11,102	-14% ▼	0.072	15% ▲	19%	21% ▲

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

* Includes site office personnel from Albuquerque, Chicago, Oak Ridge, and Ohio in addition to several smaller facilities not associated with a DOE site.

DOE Occupational Radiation Exposure: 2007 Annual Report
Exhibit B-4. Internal Dose by Site, 2005-2007.

Site	No. of Individuals with New Intakes*			Collective CEDE Dose from Intake (person-rem)			Average CEDE		
	2005	2006	2007	2005	2006	2007	2005	2006	2007
Argonne National Laboratory	20	17	20	0.535	0.466	0.324	0.027	0.027	0.016
Brookhaven National Laboratory	3		17	0.064		0.336	0.021		0.020
Fernald Environmental Management Project	6	36		0.083	0.199		0.014	0.006	
Hanford - Hanford Site	26	30	14	0.337	0.284	0.061	0.013	0.009	0.004
Hanford - Office of River Protection	3	7	9	0.007	0.025	0.014	0.002	0.004	0.002
Hanford - Pacific Northwest National Laboratory	2	3	9	0.005	0.090	0.434	0.002	0.030	0.048
Idaho National Laboratory	27	30	4	1.017	1.055	0.086	0.038	0.035	0.022
Lawrence Livermore National Laboratory	24	9	11	0.651	0.070	0.020	0.027	0.008	0.002
Los Alamos National Laboratory	116	36	30	5.618	1.376	8.003	0.048	0.038	0.267
Mound Plant	119	15		0.990	0.156		0.008	0.010	
Nevada Test Site			5			0.765			0.153
Oak Ridge - East Tennessee Technology Park	48	1		0.537	0.015		0.011	0.015	
Oak Ridge - Oak Ridge National Laboratory	11	5	4	0.321	0.093	0.024	0.029	0.019	0.006
Oak Ridge - Y-12 National Security Complex	1,081	999	1,057	51.356	41.442	54.874	0.048	0.041	0.052
Paducah Gaseous Diffusion Plant			1			0.013			0.013
Pantex Plant	62	47	19	0.819	0.841	0.065	0.013	0.018	0.003
Portsmouth Gaseous Diffusion Plant	1			0.012			0.012		
Rocky Flats Environmental Technology Site	5			0.655			0.131		
Savannah River Site	45	25	36	0.453	1.117	0.399	0.010	0.045	0.011
West Valley Project			1			0.001			0.001
Site Office Personnel*	1			0.001			0.001		
Totals	1,600	1,260	1,237	63.461	47.229	65.419	0.040	0.037	0.053

*Only includes intakes that occurred during the monitoring year. Individuals may be counted more than once.

**In the fall of 2005, Rocky Flats ceased all operations.

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

DOE Occupational Radiation Exposure: 2007 Annual Report
Exhibit B-5. Neutron Dose Distribution by Site, 2007.

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)
Ames Laboratory	154								154				
Argonne National Laboratory	2,783	28							2,811	28	1%	0.857	0.031
Boeing North America, Inc. - Research	184								184				
Brookhaven National Laboratory	2,207	13							2,220	13	1%	0.132	0.010
Fermi National Accelerator Laboratory	1,625								1,625				
Hanford - Hanford Site	5,032	722	17	5	2				5,778	746	13%	14.997	0.020
Hanford - Office of River Protection	1,226	25							1,251	25	2%	0.419	0.017
Hanford - Pacific Northwest National Laboratory	1,531	42	1						1,574	43	3%	1.304	0.030
Honeywell, FM&T/KC Production	91								91				
Idaho National Laboratory	7,085	88	3	2					7,178	93	1%	3.507	0.038
Lawrence Berkeley National Laboratory	1,142	1							1,143	1	0%	0.020	0.020
Lawrence Livermore National Laboratory	9,084	32	5	2	1				9,124	40	0%	2.737	0.068
Los Alamos National Laboratory	8,637	940	133	24	16	7	9		9,766	1,129	12%	79.313	0.070
Nevada Test Site	3,164	13	1						3,178	14	0%	0.469	0.033
New Brunswick Laboratory	29								29				
Oak Ridge - East Tennessee Technology Park	1,985	2							1,987	2	0%	0.020	0.010
Oak Ridge - Oak Ridge Institute for Science and Education	67								67				
Oak Ridge - Oak Ridge National Laboratory	7,437	67	26						7,530	93	1%	6.115	0.066
Oak Ridge - Y-12 National Security Complex	5,037	1							5,038	1	0%	0.017	0.017
Paducah Gaseous Diffusion Plant	737	14	1						752	15	2%	0.825	0.055
Pantex Plant	4,575	73	7						4,655	80	2%	3.121	0.039
Portsmouth Gaseous Diffusion Plant	720	12							732	12	2%	0.631	0.053
Princeton Plasma Physics Laboratory	354								354				
Sandia National Laboratory	2,997	1							2,998	1	0%	0.069	0.069
Savannah River Site	6,966	278	19						7,263	297	4%	11.940	0.040
Stanford Linear Accelerator Laboratory	5,588	6							5,594	6	0%	0.180	0.030
Thomas Jefferson National Accelerator Facility	1,378								1,378				
Waste Isolation Pilot Project	854								854				
West Valley Project	432								432				
Site Office Personnel*	911								911				
Totals	84,012	2,358	213	33	19	7	9		86,651	2,639	3%	126.673	0.048

*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: 2007 Annual Report
Exhibit B-6d. Distribution of TEDE by Facility Type - 2007

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	11,525	473	64	26	8	1						12,097	5%	572	37.084	0.065
Fuel Processing	993	342	33	11	2							1,381	28%	388	19.146	0.049
Maintenance and Support	9,906	1,492	265	135	33	11	2					11,844	16%	1,938	161.100	0.083
Reactor	150	39	5	1								195	23%	45	1.990	0.044
Research, General	27,131	1,636	238	74	20	17	6				1	29,123	7%	1,992	148.484	0.075
Research, Fusion	265	157										422	37%	157	1.452	0.009
Waste Processing/Management	5,219	1,914	366	165	51							7,715	32%	2,496	201.298	0.081
Weapons Fabrication and Testing	9,166	1,334	255	52	15	1						10,823	15%	1,657	102.152	0.062
Other	11,194	1,564	202	55	18	4	14					13,051	14%	1,857	125.120	0.067
Totals	75,549	8,951	1,428	519	147	34	22				1	86,651	13%	11,102	797.826	0.072

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

DOE Occupational Radiation Exposure: 2007 Annual Report
Exhibit B-7d. Collective TEDE by Site and Facility Type - 2007

Site	Accelerator	Fuel/Uranium Enrichment	Fuel Fabrication	Fuel Processing	Maintenance and Support	Reactor	Research, General	Research, Fusion	Waste Processing/Management	Weapons Fabrication and Testing	Other	Totals
Ames Laboratory							0.158					0.158
Argonne National Laboratory	2.786				0.074		4.912		1.428		0.042	9.242
Boeing North America, Inc. - Research											0.162	0.162
Brookhaven National Laboratory	3.686				1.138	0.227	0.793		0.433			6.277
Fermi National Accelerator Laboratory	16.560											16.560
Hanford - Hanford Site					108.186						16.020	124.206
Hanford - Office of River Protection					2.097				19.123		1.600	22.820
Hanford - Pacific Northwest National Laboratory					0.033		7.262				3.696	10.991
Honeywell, FM&T/KC Production										0.098		0.098
Idaho National Laboratory							30.775		55.635		47.261	133.671
Lawrence Berkeley National Laboratory							0.770					0.770
Lawrence Livermore National Laboratory							15.498					15.498
Los Alamos National Laboratory	11.273				35.120	0.006	47.310	0.018	1.202		54.649	149.578
Nevada Test Site					5.706							5.706
New Brunswick Laboratory							0.027					0.027
Oak Ridge - East Tennessee Technology Park							0.208					0.208
Oak Ridge - Oak Ridge Institute for Science and Education							0.136					0.136
Oak Ridge - Oak Ridge National Laboratory							31.849					31.849
Oak Ridge - Y-12 National Security Complex										74.286		74.286
Paducah Gaseous Diffusion Plant							1.664					1.664
Pantex Plant										23.943		23.943
Portsmouth Gaseous Diffusion Plant							1.453					1.453
Princeton Plasma Physics Laboratory								1.380				1.380
Sandia National Laboratory	0.553				0.807	1.757	0.521	0.054	0.282	3.404	0.432	7.810
Savannah River Site				19.146	7.891		4.945		78.696	0.421	1.258	112.357
Stanford Linear Accelerator Laboratory	1.453											1.453
Thomas Jefferson National Accelerator Facility	0.773											0.773
West Valley Project									44.499			44.499
Site Office Personnel*					0.048		0.203					0.251
Totals	37.084			19.146	161.100	1.990	148.484	1.452	201.298	102.152	125.120	797.826

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

* Includes site office personnel from Albuquerque and Oakland.

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-8. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Accelerator Facilities, 2007

ACCELERATORS

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

Site/Contractor	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)
Los Alamos National Laboratory	371	86	12	8	6	1						484	23%	113	11.273	0.100
Fermi National Accelerator Lab	1,412	160	36	15	2							1,625	13%	213	16.560	0.078
Argonne National Laboratory	1,437	47	5	3								1,492	4%	55	2.786	0.051
Thomas Jefferson Natl. Accel. Facil.	1,359	17	2									1,378	1%	19	0.773	0.041
Brookhaven National Laboratory	988	97	7									1,092	10%	104	3.686	0.035
Stanford Linear Accelerator Center	5,553	39	2									5,594	1%	41	1.453	0.035
Sandia National Laboratory	390	27										417	6%	27	0.553	0.020
BATTELLE - PNNL	1											1	0%	0	0.000	0.000
Johnson Controls Inc.	2											2	0%	0	0.000	0.000
Oak Ridge Office	12											12	0%	0	0.000	0.000
Totals	11,525	473	64	26	8	1						12,097	5%	572	37.084	0.065

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-9. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Fuel Facilities, 2007

FUEL FACILITIES																
Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)																
Site/Contractor	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)
ENRICHMENT																
FABRICATION																
PROCESSING																
Westinghouse S.R. Subcontractors	57	8	4									69	17%	12	0.708	0.059
Westinghouse Savannah River Co.	794	326	29	11	2							1,162	32%	368	18,355	0.050
Wackenhut Services Inc. - SR	121	4										125	3%	4	0.047	0.012
Savannah River Field Office	16	4										20	20%	4	0.036	0.009
Misc. S.R.S. Const. Subcontractors	2											2	0%	0	0.000	0.000
Miscellaneous DOE Contractors - SR	3											3	0%	0	0.000	0.000
Totals	993	342	33	11	2							1,381	28%	388	19,146	0.049

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-10. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Maintenance and Support, 2007.

MAINTENANCE AND SUPPORT

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

Site/Contractor	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)
Los Alamos National Laboratory	1,182	165	43	27	7	2	2					1,428	17%	246	28.787	0.117
Bechtel Nevada - NTS	1,561	41	12	6								1,620	4%	59	5.346	0.091
FLUOR HANFORD INC.	1,509	879	158	98	25	9						2,678	44%	1,169	106.452	0.091
Advance Technology Laboratories	21	14	3									38	45%	17	0.877	0.052
Westinghouse Savannah River Co.	125	131	16	4								276	55%	151	7.831	0.052
Bechtel Nevada - Washington Aerial Meas.	54	4										58	7%	4	0.200	0.050
CH2M HILL HANFORD GROUP INC.	53	21	4									78	32%	25	1.220	0.049
Johnson Controls Inc.	1,078	101	21		1							1,201	10%	123	6.061	0.049
FLUOR NORTHWEST SERVICES	12	18	1									31	61%	19	0.849	0.045
FLUOR FEDERAL SERVICES	27	13	2									42	36%	15	0.627	0.042
Sandia National Laboratory	552	17	2									571	3%	19	0.807	0.042
DURATEK FEDERAL SERVICES OF HANFORD	27	4										31	13%	4	0.147	0.037
DURATEK FEDERAL SERVICES INC.	7	3										10	30%	3	0.091	0.030
Brookhaven National Laboratory	911	39	3									953	4%	42	1.138	0.027
Nevada Operations	554	3										557	1%	3	0.073	0.024
Wackenhut Services Inc. - NV	430	2										432	0%	2	0.048	0.024
Bechtel Nevada - Las Vegas	706	4										710	1%	4	0.087	0.022
BATTELLE - PNNL	33	2										35	6%	2	0.033	0.017
Protection Technologies Los Alamos	514	12										526	2%	12	0.209	0.017
Argonne National Laboratory	194	5										199	3%	5	0.074	0.015
NNSA Los Alamos Site Office	76	6										82	7%	6	0.063	0.011
LOCKHEED MARTIN SERVICES INC.	12	2										14	14%	2	0.020	0.010
Savannah River Field Office	1	2										3	67%	2	0.020	0.010
Westinghouse S.R. Subcontractors	13	4										17	24%	4	0.040	0.010
BECHTEL HANFORD	4											4	0%	0	0.000	0.000
Bechtel Nevada - NTS - subcontractors	40											40	0%	0	0.000	0.000
Bechtel Nevada - Special Tech. Lab.	42											42	0%	0	0.000	0.000
COGEMA ENGINEERING CORPORATION	5											5	0%	0	0.000	0.000
DOE-RICHLAND FIELD OFFICE	7											7	0%	0	0.000	0.000
Misc. S.R.S. Const. Subcontractors	2											2	0%	0	0.000	0.000
Nevada Miscellaneous Contractors	140											140	0%	0	0.000	0.000
NUMATEC Hanford Inc.	2											2	0%	0	0.000	0.000
Nye County Sheriff	7											7	0%	0	0.000	0.000
SR construction - Bechtel	1											1	0%	0	0.000	0.000
Yucca Mountain Project	4											4	0%	0	0.000	0.000
Totals	9,906	1,492	265	135	33	11	2					11,844	16%	1,938	161.100	0.083

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-11. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Reactor Facilities, 2007

REACTOR FACILITIES																
Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)																
Site/Contractor	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)
Sandia National Laboratory	87	25	5	1								118	26%	31	1.757	0.057
Brookhaven National Laboratory	60	13										73	18%	13	0.227	0.017
Los Alamos National Laboratory	2	1										3	33%	1	0.006	0.006
BATTELLE - PNNL	1											1	0%	0	0.000	0.000
Totals	150	39	5	1								195	23%	45	1.990	0.044

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-12. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Research, General, 2007

RESEARCH, GENERAL																
Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)																
Site/Contractor	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)
Los Alamos National Laboratory	1,351	249	43	18	9	10	5				1	1,686	20%	335	47.310	0.141
Bechtel Jacobs - ORNL	371	60	5	5	6	3						450	18%	79	10.158	0.129
Lawrence Livermore National Laboratory	8,538	99	19	7	3	4	1					8,671	2%	133	15.377	0.116
Uranium Disposition Services - Portsmouth Sub	13	6	7									26	50%	13	1.341	0.103
UDS - Paducah Subs	18	10	9									37	51%	19	1.619	0.085
Argonne National Laboratory	727	45	12	2	2							788	8%	61	4.912	0.081
UT-BATTELLE: ORNL	6,633	233	34	16								6,916	4%	283	18.309	0.065
BATTELLE - PNNL	532	94	17	5								648	18%	116	7.262	0.063
UT-BATTELLE: FOSTER WHEELER	102	53	9									164	38%	62	3.382	0.055
INL - BEA LLC - Services	1,802	476	71	20								2,369	24%	567	30.775	0.054
Lawrence Berkeley Nat'l Laboratory	1,126	15	2									1,143	1%	17	0.770	0.045
Westinghouse S.R. Subcontractors	76	3	1									80	5%	4	0.162	0.041
Sandia National Laboratory	424	12	2									438	3%	14	0.521	0.037
NNSA Livermore Site Office	122	1										123	1%	1	0.036	0.036
Brookhaven National Laboratory	42	22	1									65	35%	23	0.793	0.034
Isotek (Bldg 3019)	61	7										68	10%	7	0.200	0.029
Lawrence Livermore National Laboratory - Neva	327	3										330	1%	3	0.085	0.028
Westinghouse Savannah River Co.	627	170	6	1								804	22%	177	4.756	0.027
Ames Laboratory (Iowa State)	148	6										154	4%	6	0.158	0.026
LATA/Parralax Portsmouth LLC	561	5										566	1%	5	0.112	0.022
Bechtel Jacobs - ETPP	1,948	15										1,963	1%	15	0.208	0.014
New Brunswick Laboratory - Research	27	2										29	7%	2	0.027	0.014
Paducah Remediation Services (PRS)	546	1										547	0%	1	0.013	0.013
Miscellaneous DOE Contractors - SR	2	1										3	33%	1	0.009	0.009
Wackenhut Services Inc. - SR	33	3										36	8%	3	0.018	0.006
Oak Ridge Inst. for Sci. & Educ. (ORISE)	32	35										67	52%	35	0.136	0.004
Swift & Staley Mech Contr Inc (Pad)	159	9										168	5%	9	0.032	0.004
National Renewable Energy Lab (NREL)-GO	9	1										10	10%	1	0.003	0.003
Advance Technology Laboratories	1											1	0%	0	0.000	0.000
Bechtel Jacobs - Y-12	175											175	0%	0	0.000	0.000
CH2M HILL HANFORD GROUP INC.	1											1	0%	0	0.000	0.000
DOE-RICHLAND FIELD OFFICE	2											2	0%	0	0.000	0.000

RESEARCH, GENERAL

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

Site/Contractor	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)
Idaho Field Office	3											3	0%	0	0.000	0.000
Johnson Controls Inc.	3											3	0%	0	0.000	0.000
Materials & Energy Corporation	24											24	0%	0	0.000	0.000
Misc. S.R.S. Const. Subcontractors	3											3	0%	0	0.000	0.000
NNSA Los Alamos Site Office	1											1	0%	0	0.000	0.000
OFFICE OF RIVER PROTECTION	1											1	0%	0	0.000	0.000
Protection Technologies Los Alamos	6											6	0%	0	0.000	0.000
Savannah River Field Office	18											18	0%	0	0.000	0.000
SR construction - Parsons	4											4	0%	0	0.000	0.000
SRFS Service Subcontractors	1											1	0%	0	0.000	0.000
Theta Pro2Serve Management Co. (Ports)	140											140	0%	0	0.000	0.000
Univ. of Georgia Ecology Laboratory	16											16	0%	0	0.000	0.000
USEC - Oak Ridge	115											115	0%	0	0.000	0.000
Wackenhut Services	259											259	0%	0	0.000	0.000
Wackenhut Services Subcontractors - SR	1											1	0%	0	0.000	0.000
Totals	27,131	1,636	238	74	20	17	6				1	29,123	7%	1,992	148.484	0.075

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-13. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Research, Fusion, 2007

RESEARCH, FUSION

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

Site/Contractor	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)
Los Alamos National Laboratory	33	1										34	3%	1	0.018	0.018
Sandia National Laboratory	31	3										34	9%	3	0.054	0.018
Princeton Plasma Physics Laboratory	201	153										354	43%	153	1.380	0.009
Totals	265	157										422	37%	157	1.452	0.009

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-14. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Waste Processing, 2007

WASTE PROCESSING

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

Site/Contractor	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)
West Valley Nuclear Services Inc.	244	74	37	46	31							432	44%	188	44.499	0.237
INL - BEA LLC - Services	1,041	464	109	53	8							1,675	38%	634	55.635	0.088
Los Alamos National Laboratory	47	8	5	1								61	23%	14	1.202	0.086
Westinghouse Savannah River Co.	1,739	949	155	50	12							2,905	40%	1,166	73.854	0.063
Argonne National Laboratory	124	16	7									147	16%	23	1.428	0.062
CH2M HILL HANFORD GROUP INC.	493	256	45	11								805	39%	312	18.984	0.061
Westinghouse S.R. Subcontractors	185	52	7	4								248	25%	63	3.605	0.057
Brookhaven National Laboratory	28	9										37	24%	9	0.433	0.048
Sandia National Laboratory	92	9										101	9%	9	0.282	0.031
Advance Technology Laboratories	22	5										27	19%	5	0.139	0.028
Misc. S.R.S. Const. Subcontractors	24	8	1									33	27%	9	0.220	0.024
Wackenhut Services Inc. - SR	236	53										289	18%	53	0.870	0.016
Savannah River Field Office	60	10										70	14%	10	0.142	0.014
SR construction - Parsons Subcontractors		1										1	100%	1	0.005	0.005
BATTELLE - PNNL	2											2	0%	0	0.000	0.000
BECHTEL NATIONAL CORPORATION	2											2	0%	0	0.000	0.000
Carlsbad Area Office	2											2	0%	0	0.000	0.000
DOE-RICHLAND FIELD OFFICE	1											1	0%	0	0.000	0.000
DURATEK FEDERAL SERVICES INC.	1											1	0%	0	0.000	0.000
FLUOR HANFORD INC.	9											9	0%	0	0.000	0.000
FLUOR NORTHWEST SERVICES	1											1	0%	0	0.000	0.000
Miscellaneous DOE Contractors - SR	1											1	0%	0	0.000	0.000
NNSA Los Alamos Site Office	1											1	0%	0	0.000	0.000
Wackenhut Services Subcontractors - SR	10											10	0%	0	0.000	0.000
Washington TRU Solutions LLC-WIPP	40											40	0%	0	0.000	0.000
Washington TRU Solutions-WIPP Contractors	814											814	0%	0	0.000	0.000
Totals	5,219	1,914	366	165	51							7,715	32%	2,496	201.298	0.081

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-15. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Weapons Fabrication, 2007

WEAPONS FABRICATION

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

Site/Contractor	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)
B & W - Security	742	7			1							750	1%	8	0.894	0.112
B & W Pantex	3,484	224	37	15	9							3,769	8%	285	23.049	0.081
Sandia National Laboratory	702	37	12	1								752	7%	50	3.404	0.068
BWXT Y-12	3,605	1,010	206	36	5	1						4,863	26%	1,258	74.286	0.059
Westinghouse Savannah River Co.	411	34										445	8%	34	0.421	0.012
Honeywell FM&T/KC Production	69	22										91	24%	22	0.098	0.004
B & W - Subcontractors	55											55	0%	0	0.000	0.000
Battelle - Pantex	1											1	0%	0	0.000	0.000
Los Alamos National Laboratory	6											6	0%	0	0.000	0.000
PXSO/NNSA and DOE Couriers	80											80	0%	0	0.000	0.000
Wackenhut Services Inc. - SR	4											4	0%	0	0.000	0.000
Westinghouse S.R. Subcontractors	7											7	0%	0	0.000	0.000
Totals	9,166	1,334	255	52	15	1						10,823	15%	1,657	102.152	0.062

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

DOE Occupational Radiation Exposure: 2007 Annual Report

Exhibit B-16. Distribution of TEDE by Facility Type Listed in Descending Order of Average Measurable TEDE for Other , 2007

OTHER																
Number of Individuals Receiving Radiation Doses in Each Dose Range (rem)																
Site/Contractor	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)
Los Alamos National Laboratory	3,633	424	55	25	14	4	11					4,166	13%	533	54.470	0.102
ICP - CWI - Construction Subs	2,427	534	108	22	3		3					3,097	22%	670	47.261	0.071
COGEMA ENGINEERING CORPORATION	15	12	4	1								32	53%	17	1.054	0.062
BATTELLE - PNNL	824	54	5	4								887	7%	63	3.696	0.059
Wackenhut Services Inc. - SR	6	1										7	14%	1	0.058	0.058
FLUOR HANFORD INC.	387	63	7	1	1							459	16%	72	3.412	0.047
CH2M HILL HANFORD GROUP INC.	154	27	4									185	17%	31	1.406	0.045
DOE-RICHLAND FIELD OFFICE	623	45	5									673	7%	50	1.974	0.039
FLUOR FEDERAL SERVICES	141	69	2	2								214	34%	73	2.701	0.037
Johnson Controls Inc.	24	4										28	14%	4	0.147	0.037
BECHTEL HANFORD	1,073	176	10									1,259	15%	186	5.910	0.032
FLUOR NORTHWEST SERVICES	87	23										110	21%	23	0.639	0.028
OFFICE OF RIVER PROTECTION	88	7										95	7%	7	0.194	0.028
DURATEK FEDERAL SERVICES INC.	51	11										62	18%	11	0.246	0.022
Argonne National Laboratory	183	2										185	1%	2	0.042	0.021
Sandia National Laboratory	545	22										567	4%	22	0.432	0.020
Westinghouse Savannah River Co.	390	56	2									448	13%	58	1.039	0.018
DURATEK FEDERAL SERVICES OF HANFORD	60	4										64	6%	4	0.068	0.017
Westinghouse S.R. Subcontractors	89	9										98	9%	9	0.156	0.017
Boeing North America Inc. - Research	170	14										184	8%	14	0.162	0.012
LOCKHEED MARTIN SERVICES INC.	24	2										26	8%	2	0.016	0.008
Protection Technologies Los Alamos	36	4										40	10%	4	0.032	0.008
Savannah River Field Office	11	1										12	8%	1	0.005	0.005
Advance Technology Laboratories	18											18	0%	0	0.000	0.000
ADVANCEDMED HANFORD	39											39	0%	0	0.000	0.000
Bechtel BWXT Idaho - Construction	1											1	0%	0	0.000	0.000
Idaho Field Office	33											33	0%	0	0.000	0.000
LATA-Sharp Remediation Services, LLC	13											13	0%	0	0.000	0.000
Misc. S.R.S. Const. Subcontractors	30											30	0%	0	0.000	0.000
NNSA Los Alamos Site Office	8											8	0%	0	0.000	0.000
NUMATEC Hanford Inc.	2											2	0%	0	0.000	0.000
S.R. Forest Station	2											2	0%	0	0.000	0.000
SR construction - Parsons	6											6	0%	0	0.000	0.000
SR construction - Parsons Subcontractors	1											1	0%	0	0.000	0.000
Totals	11,194	1,564	202	55	18	4	14					13,051	14%	1,857	125.120	0.067

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

DOE Occupational Radiation Exposure: 2007 Annual Report
Exhibit B-17. Internal Dose by Facility Type and Nuclide, 2005-2007

Facility Type	Nuclide*	No. of Individuals with New Intakes**			Collective CEDE (person-rem)			Average CEDE (rem)		
		2005	2006	2007	2005	2006	2007	2005	2006	2007
Accelerator	Hydrogen-3	3	2		0.031	0.003		0.010	0.002	
	Mixed	2		1	0.034		0.026	0.017		0.026
	Total	5	2	1	0.065	0.003	0.026	0.013	0.002	0.026
Fuel Fabrication	Mixed	3	5		0.040	0.039		0.013	0.008	
	Other	1	4		0.031	0.064		0.031	0.016	
	Thorium	2	27		0.012	0.096		0.006	0.004	
	Total	6	36		0.083	0.199		0.014	0.006	
Fuel Processing	Hydrogen-3		1			0.003			0.003	
	Plutonium	2		3	0.030		0.247	0.015		0.082
	Total	2	1	3	0.030	0.003	0.247	0.015	0.003	0.082
Fuel/Uranium Enrichment	Other	47			0.524			0.011		
	Total	47			0.524			0.011		
Maintenance and Support	Americium	7	7	1	0.082	0.800	0.039	0.012	0.114	0.039
	Hydrogen-3	5	1	2	0.014	0.013	0.008	0.003	0.013	0.004
	Mixed	14	4	1	1.154	0.698	0.002	0.082	0.175	0.002
	Other			5			0.010			0.002
	Plutonium	20	27	13	0.855	0.164	0.912	0.043	0.006	0.070
	Total	46	39	22	2.105	1.675	0.971	0.046	0.043	0.044
Other	Americium	6	3		0.050	0.106		0.008	0.035	
	Hydrogen-3	17	9	12	0.067	0.030	0.050	0.004	0.003	0.004
	Mixed	11	3	4	0.428	0.024	0.064	0.039	0.008	0.016
	Other			4			0.008			0.002
	Plutonium	34	19	15	1.528	0.464	0.074	0.045	0.024	0.005
	Radon-222	21	26		0.625	0.834		0.030	0.032	
	Total	89	60	35	2.698	1.458	0.196	0.030	0.024	0.006
Reactor	Americium	1		10	0.010		0.176	0.010		0.018
	Uranium	1			0.043			0.043		
	Total	2		10	0.053		0.176	0.027		0.018
Research, Fusion	Total									
Research, General	Americium	8	7	8	0.292	0.268	0.144	0.037	0.038	0.018
	Hydrogen-3	37	19	21	0.160	0.366	0.066	0.004	0.019	0.003
	Mixed	15	3	6	1.272	0.111	7.734	0.085	0.037	1.289
	Other	5	3	5	0.299	0.009	0.014	0.060	0.003	0.003
	Plutonium	27	8	14	1.441	0.274	0.565	0.053	0.034	0.040
	Thorium		1			0.010			0.010	
	Uranium	3	5	2	0.038	0.140	0.030	0.013	0.028	0.015
	Total	95	46	56	3.502	1.178	8.553	0.037	0.026	0.153
Waste Processing/Management	Americium	3	3	7	0.089	0.058	0.124	0.030	0.019	0.018
	Hydrogen-3	15	1	2	0.034	0.003	0.007	0.002	0.003	0.004

Facility Type	Nuclide*	No. of Individuals with New Intakes**			Collective CEDE (person-rem)			Average CEDE (rem)		
		2005	2006	2007	2005	2006	2007	2005	2006	2007
	Mixed	91	14		0.958	0.196		0.011	0.014	
	Other		1	4		0.033	0.007		0.033	0.002
	Plutonium	30	5	14	0.318	0.111	0.144	0.011	0.022	0.010
	Thorium	1			0.039			0.039		
	Uranium		1			0.005			0.005	
	Total	140	25	27	1.438	0.406	0.282	0.010	0.016	0.010
Weapons Fabrication and Testing	Hydrogen-3	19	6	7	0.126	0.025	0.029	0.007	0.004	0.004
	Mixed	63	46	20	0.826	0.840	0.243	0.013	0.018	0.012
	Other	5			0.655			0.131		
	Plutonium			1			0.018			0.018
	Uranium	1,081	999	1,055	51.356	41.442	54.678	0.048	0.041	0.052
	Total	1,168	1,051	1,083	52.963	42.307	54.968	0.045	0.040	0.051
Totals		1,600	1,260	1,237	63.461	47.229	65.419	0.040	0.037	0.053

*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: 2007 Annual Report
Exhibit B-18d. Distribution of TEDE by Labor Category - 2007

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	134	2										136	1%	2	0.037	0.018
Construction	3,254	907	122	29	8	1						4,321	25%	1,067	59.000	0.055
Laborers	1,366	253	86	34	5							1,744	22%	378	36.306	0.096
Management	7,182	748	89	40	11	1						8,071	11%	889	52.939	0.060
Miscellaneous	5,035	708	129	30	4	2	3					5,911	15%	876	61.389	0.070
Production	2,177	1,201	305	151	56	9						3,899	44%	1,722	181.249	0.105
Scientists	20,711	1,691	116	33	3							22,554	8%	1,843	66.111	0.036
Service	3,708	422	17	5	1							4,153	11%	445	11.129	0.025
Technicians	7,355	1,455	309	102	20	2	1					9,244	20%	1,889	145.881	0.077
Transport	1,288	148	45	8	2							1,491	14%	203	15.556	0.077
Unknown	23,339	1,416	210	87	37	19	18				1	25,127	7%	1,788	168.229	0.094
Totals	75,549	8,951	1,428	519	147	34	22				1	86,651	13%	11,102	797.826	0.072

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

DOE Occupational Radiation Exposure: 2007 Annual Report
Exhibit B-19. Internal Dose by Labor Category, 2005-2007.

Labor Category	No. of Individuals with New Intakes*			Collective CEDE Dose from Intake (person-rem)			Average CEDE		
	2005	2006	2007	2005	2006	2007	2005	2006	2007
Construction	236	174	162	6.769	4.336	5.231	0.029	0.025	0.032
Laborers	59	56	73	2.363	2.513	4.903	0.040	0.045	0.067
Management	124	125	125	4.697	4.556	6.022	0.038	0.036	0.048
Miscellaneous	19	19	9	0.596	0.455	0.110	0.031	0.024	0.012
Production	440	411	381	24.549	22.479	25.430	0.056	0.055	0.067
Scientists	168	144	169	5.340	3.450	4.763	0.032	0.024	0.028
Service	19	14	6	0.455	0.220	0.150	0.024	0.016	0.025
Technicians	182	166	194	7.215	4.570	7.758	0.040	0.028	0.040
Transport	2	7	4	0.023	0.040	0.046	0.012	0.006	0.012
Unknown	351	144	114	11.454	4.610	11.006	0.033	0.032	0.097
Totals	1,600	1,260	1,237	63.461	47.229	65.419	0.040	0.037	0.053

*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: 2007 Annual Report
Exhibit B-20. Dose Distribution by Labor Category and Occupation, 2007.

Labor Category	Occupation	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	Misc. Agriculture	33	2										35	6%	2	0.037	0.018
	Groundskeepers	101											101				
Construction	Carpenters	233	72	15	5								325	28%	92	6.119	0.067
	Electricians	1,109	299	21	4	1							1,434	23%	325	12.212	0.038
	Masons	28	7										35	20%	7	0.155	0.022
	Mechanics/Repairers	376	111	14	1								502	25%	126	6.430	0.051
	Miners/Drillers	130	4										134	3%	4	0.079	0.020
	Misc. Repair/Construction	967	247	39	10	3	1						1,267	24%	300	17.948	0.060
	Painters	109	31										140	22%	31	0.718	0.023
	Pipe Fitter	302	136	33	9	4							484	38%	182	15.339	0.084
Laborers	Handlers/Laborers/Helpers	1,366	253	86	34	5							1,744	22%	378	36.306	0.096
Management	Sales	4											4				
	Admin. Support & Clerical Sec.	2,874	244	40	29	8							3,195	10%	321	27.604	0.086
	Manager - Administrator	4,304	504	49	11	3	1						4,872	12%	568	25.335	0.045
Miscellaneous	Military	6	3										9	33%	3	0.130	0.043
	Miscellaneous	5,029	705	129	30	4	2	3					5,902	15%	873	61.259	0.070
Production	Welders and Solderers	47	15										62	24%	15	0.438	0.029
	Machine Setup/Operators	148	130	70	13	2							363	59%	215	21.346	0.099
	Machinists	87	21	2									110	21%	23	1.070	0.047
	Misc. Precision/Production	658	175	33	9	1	1						877	25%	219	14.785	0.068
	Operators, Plant/ System/Util.	1,109	838	199	126	53	8						2,333	52%	1,224	141.662	0.116
	Sheet Metal Workers	128	22	1	3								154	17%	26	1.948	0.075
Scientists	Health Physicist	467	100	4	5								576	19%	109	4.038	0.037
	Misc. Professional	6,912	615	43	17	3							7,590	9%	678	26.896	0.040
	Scientist	6,817	324	26	3								7,170	5%	353	12.552	0.036
	Engineer	6,419	639	42	8								7,108	10%	689	22.128	0.032
	Doctors and Nurses	96	13	1									110	13%	14	0.497	0.036
Service	Firefighters	454	61	2									517	12%	63	0.913	0.014
	Food Service Employees	25	2	1	1								29	14%	4	0.529	0.132
	Janitors	483	43	9	1	1							537	10%	54	3.604	0.067
	Misc. Service	259	20	3									282	8%	23	1.020	0.044
	Security Guards	2,487	296	2	3								2,788	11%	301	5.063	0.017
Technicians	Engineering Technicians	2,036	168	24	3	4		1					2,236	9%	200	13.456	0.067
	Technicians	901	222	43	10								1,176	23%	275	18.148	0.066
	Science Technicians	534	124	21	4		1						684	22%	150	9.445	0.063
	Radiation Monitors/Techs.	1,220	648	189	73	13	1						2,144	43%	924	85.624	0.093
	Health Technicians	72	17	8	3								100	28%	28	2.895	0.103
	Misc. Technicians	2,592	276	24	9	3							2,904	11%	312	16.313	0.052
Transport	Bus Drivers	42	2										44	5%	2	0.064	0.032
	Equipment Operators	312	40	17	4	2							375	17%	63	6.835	0.108
	Misc. Transport	481	63	27	4								575	16%	94	7.675	0.082
	Pilots	22											22				

Labor Category	Occupation	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)
	Truck Drivers	431	43	1									475	9%	44	0.982	0.022
Unknown	Unknown	23,339	1,416	210	87	37	19	18				1	25,127	7%	1,788	168.229	0.094
Totals		75,549	8,951	1,428	519	147	34	22				1	86,651	13%	11,102	797.826	0.072

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

DOE Occupational Radiation Exposure: 2007 Annual Report
Exhibit B-21. Internal Dose Distribution by Site and Nuclide, 2007.

Site	Nuclide	Number of Individuals Receiving Doses in Each Dose Range											Total Indiv. with Meas. CEDE	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			
Argonne National Laboratory	Other	2											2	0.007	0.004
	Plutonium	8	1										9	0.156	0.017
	Americium	6	3										9	0.161	0.018
Brookhaven National Laboratory	Americium	10	6										16	0.309	0.019
	Plutonium		1										1	0.027	0.027
Hanford - Hanford Site	Other	7											7	0.014	0.002
	Plutonium	6	1										7	0.047	0.007
Hanford - Office of River Protection	Other	5											5	0.010	0.002
	Plutonium	4											4	0.004	0.001
Hanford - Pacific Northwest National Laboratory	Hydrogen-3	3											3	0.004	0.001
	Plutonium	4	1		1								6	0.430	0.072
Idaho National Laboratory	Americium	1											1	0.013	0.013
	Plutonium		3										3	0.073	0.024
Lawrence Livermore National Laboratory	Mixed	2											2	0.004	0.002
	Hydrogen-3	9											9	0.016	0.002
Los Alamos National Laboratory	Hydrogen-3	19											19	0.084	0.004
	Plutonium	1		1									2	0.110	0.055
	Mixed	4	3	1							1		9	7.809	0.868
Nevada Test Site	Plutonium		2	2	1								5	0.765	0.153
Oak Ridge - Oak Ridge National Laboratory	Other	3											3	0.007	0.002
	Uranium	1											1	0.017	0.017
Oak Ridge - Y-12 National Security Complex	Plutonium	1											1	0.018	0.018
	Uranium	471	415	145	20	3	1						1,055	54.678	0.052
	Mixed			1									1	0.178	0.178
Paducah Gaseous Diffusion Plant	Uranium	1											1	0.013	0.013
Pantex Plant	Mixed	19											19	0.065	0.003
Savannah River Site	Hydrogen-3	13											13	0.056	0.004
	Mixed	1											1	0.013	0.013
	Plutonium	21		1									22	0.330	0.015
West Valley Project	Other	1											1	0.001	0.001
Totals		623	436	151	22	3	1					1	1,237	65.419	0.053

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

DOE Occupational Radiation Exposure: 2007 Annual Report
Exhibit B-22. Extremity Dose Distribution by Site, 2007.

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)
Ames Laboratory	87	58	9						154	67		3.275	0.049
Argonne National Laboratory	2,733	45	27	6					2,811	78		22.526	0.289
Boeing North America, Inc. - Research	184								184				
Brookhaven National Laboratory	2,155	31	30	4					2,220	65		19.290	0.297
Fermi National Accelerator Laboratory	1,609	8	6	2					1,625	16		6.110	0.382
Hanford - Hanford Site	5,364	88	287	39					5,778	414		194.287	0.469
Hanford - Office of River Protection	876	133	226	16					1,251	375		98.596	0.263
Hanford - Pacific Northwest National Laboratory	1,346	88	114	25		1			1,574	228	1	105.053	0.461
Honeywell, FM&T/KC Production	83	6	2						91	8		0.630	0.079
Idaho National Laboratory	6,700	280	184	14					7,178	478		89.640	0.188
Lawrence Berkeley National Laboratory	1,124	7	8	3	1				1,143	19	1	17.234	0.907
Lawrence Livermore National Laboratory	9,066	6	34	15	3				9,124	58	3	64.292	1.108
Los Alamos National Laboratory	9,296	177	194	76	16	4	2	1	9,766	470	23	505.924	1.076
Nevada Test Site	3,173	4	1						3,178	5		0.510	0.102
New Brunswick Laboratory	25	3	1						29	4		0.245	0.061
Oak Ridge - East Tennessee Technology Park	1,987								1,987				
Oak Ridge - Oak Ridge Institute for Science and Education	67								67				
Oak Ridge - Oak Ridge National Laboratory	7,427	57	37	8	1				7,530	103	1	41.257	0.401
Oak Ridge - Y-12 National Security Complex	4,979	17	27	15					5,038	59		46.368	0.786
Paducah Gaseous Diffusion Plant	752								752				
Pantex Plant	4,421	124	80	30					4,655	234		97.911	0.418
Portsmouth Gaseous Diffusion Plant	732								732				
Princeton Plasma Physics Laboratory	354								354				
Sandia National Laboratory	2,998								2,998				
Savannah River Site	6,115	257	717	163	9	2			7,263	1,148	11	671.046	0.585
Stanford Linear Accelerator Laboratory	5,594								5,594				
Thomas Jefferson National Accelerator Facility	1,378								1,378				
West Valley Project	395	16	21						432	37		7.140	0.193
Site Office Personnel*	1,764	1							1,765	1		0.007	0.007
Totals	82,784	1,406	2,005	416	30	7	2	1	86,651	3,867	40	1,991.341	0.515

* 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.

***Includes site office personnel from Albuquerque, Oakland and Oak Ridge.

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