

Date: 10-MAR-2003 15:00
Page: 3

Dosimetry History by Individual

Submitted by: KSAVITZ
Sorted by: Plant ID

Plant ID	Name	Begin Date	End Date	Dosimeter Category	Dosimeter Process ID	Dosimeter Type	Wear Location	Record Type	DDE* 100	SDE-SK 189	LDE	SDE-EX	Neut.	PSE 15
30-AUG-1978		00:00	31-AUG-1978	00:00	CALCULAT	ED		OFFICIAL	162	209	320	47		
29-SEP-1978		00:00	30-SEP-1978	00:00	CALCULAT	ED		OFFICIAL	127	131	159	4		
30-OCT-1978		00:00	31-OCT-1978	00:00	CALCULAT	ED		OFFICIAL	34	38	76	4		
29-NOV-1978		00:00	30-NOV-1978	00:00	CALCULAT	ED		OFFICIAL	20	27	56	5		
30-DEC-1978		00:00	31-DEC-1978	00:00	CALCULAT	ED		OFFICIAL	42	64	80	12		
30-JAN-1979		00:00	31-JAN-1979	00:00	CALCULAT	ED		OFFICIAL	26	39	126	6		
27-FEB-1979		00:00	28-FEB-1979	00:00	CALCULAT	ED		OFFICIAL	37	44	96	6		
30-MAR-1979		00:00	31-MAR-1979	00:00	CALCULAT	ED		OFFICIAL	42	156	200	96		
29-APR-1979		00:00	30-APR-1979	00:00	CALCULAT	ED		OFFICIAL	28	68	71	25		
30-MAY-1979		00:00	31-MAY-1979	00:00	CALCULAT	ED		OFFICIAL	35	52	101	16		
29-JUN-1979		00:00	30-JUN-1979	00:00	CALCULAT	ED		OFFICIAL	28	44	114	8		
30-JUL-1979		00:00	31-JUL-1979	00:00	CALCULAT	ED		OFFICIAL	61	67	310	6		
30-AUG-1979		00:00	31-AUG-1979	00:00	CALCULAT	ED		OFFICIAL	45	65	179	20		
29-SEP-1979		00:00	30-SEP-1979	00:00	CALCULAT	ED		OFFICIAL	86	117	197	27		
30-OCT-1979		00:00	31-OCT-1979	00:00	CALCULAT	ED		OFFICIAL	49	74		8		
29-NOV-1979		00:00	30-NOV-1979	00:00	CALCULAT	ED		OFFICIAL	9	18	123	9		
30-DEC-1979		00:00	31-DEC-1979	00:00	CALCULAT	ED		OFFICIAL	50	62	204	12		
30-JAN-1980		00:00	31-JAN-1980	00:00	CALCULAT	ED		OFFICIAL	43	56	293	7		
28-FEB-1980		00:00	29-FEB-1980	00:00	CALCULAT	ED		OFFICIAL	43	51	162	6		
30-MAR-1980		00:00	31-MAR-1980	00:00	CALCULAT	ED		OFFICIAL	50	54	227	4		
29-APR-1980		00:00	30-APR-1980	00:00	CALCULAT	ED		OFFICIAL	37	44	106	7		
30-MAY-1980		00:00	31-MAY-1980	00:00	CALCULAT	ED		OFFICIAL						

All dose equivalents are expressed in millirem.
* - indicates deep dose equivalent only. Neutron dose is not added.

Figure A-5. Dosimetry History by Individual dated 3-10-03, page 3.

YR.	MAN #	NAME	DOSES IN MREM				CURRENT YEAR ACCUMULATED					
			QUARTERLY ACCUMULATED		SKIN		PEN		HAND			
			1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER		
58	[REDACTED]	[REDACTED]	1ST QUARTER	448	263	10						
			2ND QUARTER	239	150	560						
			3RD QUARTER	165	115	216						
			4TH QUARTER	316	229	541						
57	[REDACTED]	[REDACTED]	1ST QUARTER	120	103					1168	757	1327
			2ND QUARTER	75	62	94						
			3RD QUARTER	427	382	145						
			4TH QUARTER	138	93							
56	[REDACTED]	[REDACTED]	1ST QUARTER	420	210	290						
			2ND QUARTER	130	25	185						
			3RD QUARTER	25	10	155						
			4TH QUARTER	120	30	215						
55	[REDACTED]	[REDACTED]	1ST QUARTER	130	80	195						
			2ND QUARTER	405	230	320						
			3RD QUARTER	165	95	170						
			4TH QUARTER	115	10	385						
54	[REDACTED]	[REDACTED]	1ST QUARTER	215	45							
			2ND QUARTER	140	0							
			3RD QUARTER	120	0							
			4TH QUARTER	1015	415	1110						
53	[REDACTED]	[REDACTED]	1ST QUARTER									
			2ND QUARTER	210	210							
			3RD QUARTER	110	110	77						
			4TH QUARTER	305	80							
A zero indicates a "0" dose received. A blank indicates that no film badge was worn.												

Figure A-6. Health Physics Yearly External Exposure Activity Run, 1953 through 1958.

RUN 72-303-8 HEALTH PHYSICS EXTERNAL EXPOSURE ACTIVITY RUN YEARLY DOSES IN MREM PAGE 1224

YR	NAME	YEARLY			DATE OF RUN 02-02-65			CURRENT YEAR ACCUMULATED			CURRENT YEAR ALLOWED		
		SKIN	PEN	HAND	SKIN	PEN	HAND	SKIN	PEN	HAND	SKIN	PEN	HAND
64		190	182	1021	8400	1400	21000						
	1ST QUARTER	200	194	1326	2400	400	6000						
	2ND QUARTER	110	110	599	8400	1400	21000						
	3RD QUARTER	102	93	243	7200	1200	18000						
	4TH QUARTER												

602 579 3189 31200 11960 78000

Figure A-8. Health Physics Yearly External Exposure Activity Run, 1964.

ROCKWELL INTERNATIONAL - ROCKY FLATS PLANT
 EXTERNAL DOSIMETRY (TLD) DETAIL
 COMPUTERIZED INFORMATION THROUGH 12-31-86
 DOSES IN MILLIREM

10:26 THURSDAY, MARCH 12, 1987

----- EMPNO= [REDACTED] NAME= [REDACTED] YEAR=1981 -----

ACTIVITY DATE	TIME CODE	CURRENT NEUTRON	CURRENT GAMMA	CURRENT PEN	CURRENT SKIN	CURRENT HAND	CURRENT FOREARM	BK 1	TYPE
01/31/81	2	3	2	5	5	5	5	15	
02/28/81	2	0	0	0	0	0	0	15	
03/31/81	2	0	0	0	0	0	0	15	
06/30/81	2	20	9	29	29	29	29	17	
07/31/81	2	2	2	4	9	9	9	16	
08/31/81	2	0	0	0	0	0	0	16	
09/30/81	2	11	1	12	12	12	12	16	
10/31/81	2	3	1	4	4	4	4	15	
11/30/81	2	0	0	0	0	0	0	14	
12/31/81	2	5	7	12	26	26	26	17	
YEAR		44	22	66	85	85	85		

----- EMPNO= [REDACTED] NAME= [REDACTED] YEAR=1982 -----

ACTIVITY DATE	TIME CODE	CURRENT NEUTRON	CURRENT GAMMA	CURRENT PEN	CURRENT SKIN	CURRENT HAND	CURRENT FOREARM	BK 1	TYPE
01/31/82	2	1	24	25	25	25	25	15	
02/28/82	2	4	26	30	30	30	30	11	
03/31/82	2	3	8	11	11	11	11	17	
04/30/82	2	2	4	6	8	8	8	16	
05/31/82	2	0	0	0	0	0	0	17	
06/30/82	2	26	6	32	32	32	32	16	
07/31/82	2	0	27	27	27	27	27	19	
09/30/82	2	3	3	6	6	6	6	26	
10/31/82	2	10	7	17	17	17	17	13	
12/31/82	2	45	3	48	55	55	55	32	
YEAR		94	108	202	211	211	211		

----- EMPNO= [REDACTED] NAME= [REDACTED] YEAR=1983 -----

ACTIVITY DATE	TIME CODE	CURRENT NEUTRON	CURRENT GAMMA	CURRENT PEN	CURRENT SKIN	CURRENT HAND	CURRENT FOREARM	BK 1	TYPE
01/31/83	2	55	24	79	84	84	84	15	
03/31/83	4	0	0	0	0	0	0	33	
06/30/83	4	0	0	0	0	0	0	43	
09/30/83	4	0	0	0	0	0	0	41	
12/31/83	4	12	13	25	25	25	25	31	
YEAR		67	37	104	109	109	109		

Figure A-9. External Dosimetry Detail, 1981 through 1983.

HEALTH PHYSICS EXTERNAL RADIATION EXPOSURE REPORT FOR YEAR 67
DOSES IN MREM

MAN	NAME	PEN	SKIN	HAND
[REDACTED]	[REDACTED]	1ST QUARTER 1439	1524	1725
		2ND QUARTER 960	1007	139
		3RD QUARTER 1199	1238	754
		4TH QUARTER 1214	1279	0
		YEAR TOTAL 4812	5048	2618
		YEAR ALLOW 12000	30000	75000
		LIFETIME ACC DGW 26727 ✓		
		LIFETIME ACC CTR		
		TOTAL 26727		
		LIFETIME ALLOW 95000		

Figure A-10. Health Physics External Radiation Exposure Report, 1967.

**Rocky Flats Environmental Technology Site
Radiological Health
Radiation Dosimetry Detail Report
Individual Lifetime Report**

Report Date: 04-Jun-02

Doses Reported in millirem

SSN: _____ Badge: _____ Name: _____ Department: **ORGAN**
 Company: **EG&G INC. ROCKY FLATS** Exposure From Other Facilities for 2002

Deep	CEDE	TEDE	Organ	CDE

Internal Dose From Rocky Flats for 2002

Date	Nuclide	CEDE	Total

Total Dose Equivalents for 2002*

Total Effective Dose Equivalents	TEDE	NR	Organ Dose Equivalent	CDE	TODE
			Bone Surfaces	NR	NR
			Lungs	NR	NR
			Liver	NR	NR
			Red Bone Marrow	NR	NR
			Gonads	NR	NR
			Kidney	NR	NR

* Includes doses from Rocky Flats and Off-site for Year of Report

Cumulative TEDE Reported Since 1/1/1989**

External	21	Internal	NR	Total	21	External	1233	Internal	2220	Total	3453

(Deep dose + CEDEs from reported intakes since 1/1/1989)

** Doses include Off-site doses Reported to Rocky Flats

(Deep dose + CEDEs from reported intakes)

Figure A-11. Radiation Dosimetry Individual Lifetime Report dated 6-4-02.

Rocky Flats Environmental Technology Site
Radiological Health
Radiation Dosimetry Detail Report
Termination Report

All Doses Reported in millirem (mrem)

Report Date: 17-SEP-96

Company Name: KAISER-HILL ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
Employee Number: [REDACTED] Name: [REDACTED] SSN: [REDACTED] Org Code: 81740

EXPOSURE FROM OTHER FACILITIES FOR 1996

Name	From	To	DDE	LDE	SDEWB	SDEME	CEDE	CDE	TEDE	TODE	F R E P
Sum											

TOTAL DOSE EQUIVALENTS FOR 1996

Total Effective Dose Equivalents	TEDE*	Total Organ Dose Equivalent	TODE*
0	0	Gonads	0
		Breasts	0
		Red Bone Marrow	0
		Lungs	0
		Thyroid	0
		Bone Surfaces	0

* Includes Previous Exposure from other Facilities if applicable.

CUMULATIVE TEDE AT ROCKY FLATS SINCE 1/1/89

External	Internal	Total
0	0	0
		ROCKY FLATS LIFETIME DOSE
		External
		Internal
		Total
		11,072
		15,410
		26,482

(Deep dose + CEDEs from intakes since 1/1/89) (Deep dose + CEDEs from intakes since hire date)

Figure A-14. Radiation Dosimetry Termination Report dated 9-17-96, page 2.

ROCKWELL INTERNATIONAL - ROCKY FLATS PLANT
EXTERNAL DOSIMETRY (TLD) DETAIL
COMPUTERIZED INFORMATION THROUGH 12-31-86
DOSES IN MILLIREM

10:26 THURSDAY, MARCH 12, 1987

----- EMPNO- [REDACTED] NAME [REDACTED] YEAR-1985 -----

ACTIVITY DATE	TIME CODE	CURRENT NEUTRON	CURRENT GAMMA	CURRENT PEN	CURRENT SKIN	CURRENT HAND	CURRENT FOREARM	BK 1	TYPE
09/30/85	2	66	29	95	95	95	95	0	
10/31/85	2	34	17	51	51	51	51	0	
11/30/85	2	53	24	77	77	77	77	0	
12/31/85	2	51	21	72	72	72	72	0	
YEAR		567	273	840	840	840	840		

----- EMPNO- [REDACTED] NAME [REDACTED] YEAR-1986 -----

ACTIVITY DATE	TIME CODE	CURRENT NEUTRON	CURRENT GAMMA	CURRENT PEN	CURRENT SKIN	CURRENT HAND	CURRENT FOREARM	BK 1	TYPE
01/31/86	2	17	16	33	33	33	33	0	C
02/28/86	2	62	24	86	86	86	86	0	C
03/31/86	2	23	13	36	35	35	35	0	C
04/30/86	2	53	21	74	74	74	74	0	C
05/31/86	2	15	66	81	81	81	81	0	C
06/30/86	2	23	10	33	33	33	33	0	C
07/31/86	2	24	14	38	37	37	37	0	C
08/31/86	2	29	16	45	45	45	45	0	C
09/30/86	2	31	16	47	47	47	47	0	C
10/31/86	2	25	15	40	40	40	40	0	C
11/30/86	2	34	22	56	56	56	56	0	C
YEAR		336	233	569	567	567	567		
NAME		3300	2861	6154	6476	15415	11326		
EMPNO		3300	2861	6154	6476	15415	11326		

Figure A-15. External Dosimetry Detail, 1985 and 1986.

ATTACHMENT B MAJOR JOB CATEGORIES

Chemical Operators

Primary job duties included highly enriched uranium (HEU; B881 and plutonium (B771/371) metal reprocessing using dissolution, fluorination, calcine, and other wet chemistry methods to purify metal in preparation for foundry casting operations. Molten salt processing (B776) was an exceptionally high neutron process. Other typical job duties included waste treatment (B774/374) for waste solutions generated across RFP.

Metallurgical Operators

Primary job duties included casting (B881), rolling and pressing HEU (B883), Pu (B776/ 707), and DU (B444/447 and 883). Exposures tended to be less than those to Chemical Operators. Machinists, Assemblers, Material Analysts and Welders had similar exposures.

Non-Destructive Testing (NDT) Technicians had similar, but probably lower exposures because work was often done on completed pits that inherently shielded fissile materials. Experimental Operators had similar, but probably higher, exposures because they often worked with prototype systems or processes that lacked shielding and other radiological controls as the regular production processes.

Maintenance Workers

Typical trades (i.e., machinists, pipefitters, welders, carpenters, painters, electricians) had varied exposures because they often did more intrusive work on contaminated systems than production personnel. Examples of intrusive work include repairing leaks on process lines (pipefitters), refractory replacement in casting and heat treat furnaces (carpenters), repair of mechanical systems (machinists) and repair of instruments and controllers inside gloveboxes and other systems (electricians), painting over contamination (painters).

Support Personnel

This category includes Clerk Packers, Metrology Technicians, Janitors, and Handymen, who worked in process areas but did little or no hands-on work with radioactive materials. Exposures would be incidental to working in rooms with process equipment (metallurgical and chemical operations).

Analytical Laboratory Technicians

These individuals worked primarily in B559 (Pu samples) or B881 (HEU/DU samples) and probably had lower exposures than operators performing hands-on work with significantly higher material quantities.

Site Support Personnel

Stationary Operating Engineers (SOEs, also known as Boiler Vent Operators, BVOs), Security Guards, Shift Managers and Configuration Control Authority personnel performed little if any hands-on work, but had routine access to process areas. SOEs monitored exhaust systems, waste tanks, and process waste lines. Exposures would be incidental to working in rooms with process equipment (metallurgical and chemical operations).

Radiation Control Technicians

Radiation Control Technicians (RCTs) probably had exposures from supporting production chemical and metallurgical processes. Some exposures probably occurred during decontamination activities, surveys of contaminated areas, upset conditions. They generally performed no hands-on work, but generally worked side-by-side with production operators.

Decontamination and Decommissioning Workers

Decontamination and decommissioning (D&D) work includes draining actinide systems, decontamination, size reduction and removal of contaminated equipment, gloveboxes, piping, ductwork, exhaust systems, waste packaging of removed equipment, low-level and TRU wastes. Work is often in high (>2,000 dpm removable) airborne contamination areas with Derived Air Concentration (DAC) levels from >0.1 to 106. Personal Protection Equipment (PPE) includes Air Purifying Respirator, Powered Air Purifying Respirator, or PremAir supplied air. There were some high exposures due to direct work with highly radioactive equipment and contamination events.