PLAINTIFF'S EXHIBIT

KRC-447

INDUSTRIAL HYGIENE EVALUATION OF AIR MONITORING DATA
KERR-MCGEE MEDICAL SERVICES

=DATE=	=LOCATION=	=EMPLOYEE NAME=	=EMP. NUMB=	=JOB TITLE=	=TWA-T=	=TWA-8=	=STND=	=UNITS=	=TIME=	=SV=
			SUBSTANCE: ASBESTOS							
01-11-83	CRUDE I UNIT	AREA			.34	.03	2.00	F/CC	39	.0
01-11-83	CRUDE I UNIT	AREA			.39	.03	2.00	F/CC	34	.0
01-11-83	CRUDE I UNIT	AREA			.22	.03	2.00	F/CC	60	.0
01-11-83	CRUDE I UNIT	AREA			.03	.03	2.00	F/CC	465	.0
01-12-83	CRUDE I UNIT	AREA			.37	.03	2.00	F/CC	36	.0
03-10-83	CRUDE UNIT #1	FLORES	R 455-11-2157	INSULATOR	.12	.04	.20	F/CC	154	.2
03-10-83	CRUDE I UNIT	WOLFORD	R 453-23-1404	INSULATOR	.10	.03	.20	F/CC	151	.2
03-25-83	CRUDE I UNIT	WOLFORD	R 453-23-1404	INSULATOR	.16	.04	.20	F/CC	120	.2
03-29-83	CRUDE UNIT #1	FLORES	R 455-11-2157	CRAFTMAN 1/C	.32	.03	.20	F/CC	49	.2
03-29-83	CRUDE UNIT #1	AREA			.26	.03	.20	F/CC	51	.2
03-29-83	CRUDE I UNIT	WOLFORD	R 453-23-1404	CRAFTMANS 2/C	.55	.06	.20	F/CC	49	.3
04-06-83	CRUDE UNIT #1	AREA			.29	.02	.20	F/CC	40	.1
04-13-84	INSULATION	AREA			.14	.03	.20	F/CC	100	.2
04-13-84	INSULATION	AREA			.14	.03	.20	F/CC	101	.2
06-15-84	MAINTENANCE	AREA			.96	.06	.20	F/CC	29	.3
06-15-84	MAINTENANCE	AREA			.93	.06	.20	F/CC	29	.3
11-01-84	MAINTENANCE	FLORES	R 455-11-2157	INSULATOR	.08	.00	.20	F/CC	29	.0
11-01-84	MAINTENANCE	MIRANDA	L 464-08-5201	INSULATOR	.03	.00	.20	F/CC	22	.0
12-19-84	MAINTENANCE	FLORES	R 455-11-2157	INSULATOR	.07	.01	.20	F/CC	66	.1
12-19-84	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.56	.08	.20	F/CC	68	.4
01-08-85	MAINTENANCE	WILFORD	R 453-23-1404	INSULATOR	2.40	.21	.20	F/CC	41	1.1
01-09-85	MAINTENANCE	MIRANDA	L 464-08-5201	INSULATOR	.28	.02	.20	F/CC	41	.1
01-17-85	MAINTENANCE	WILFORD	R 453-23-1404	INSULATOR	.76	.27	.20	F/CC	170	1.4
01-17-85	MAINTENANCE	MIRANDA	L 464-08-5201	INSULATOR	.04	.01	.20	F/CC	169	.1
10-22-85	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.12	.01	.20	F/CC	28	.1
01-24-86	MAINTENANCE	MIRANDA	L 464-08-5201	INSULATOR	.01	.00	.20	F/CC	20	.0
01-27-86	MAINTENANCE	TELGE	K 465-92-9602	INSULATOR	.04	.01	.20	F/CC	145	.1
01-27-86	MAINTENANCE	FLORES	R 455-11-2157	INSULATOR	.03	.01	.20	F/CC	143	.1
01-28-86	MAINTENANCE	TELGE	K 465-92-9602	INSULATOR	.23	.06	.20	F/CC	133	.3
01-28-86	MAINTENANCE	FLORES	R 455-11-2157	INSULATOR	.05	.01	.20	F/CC	129	.1
02-13-86	MAINTENANCE	AREA	000-00-0000		.02	.00	.20	F/CC	29	.0
2-13-86	MAINTENANCE	AREA	000-00-0000		.02	.00	.20	F/CC	31	.0
2-18-86	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.16	.01	.20	F/CC	20	.1
2-18-86	MAINTENANCE	TELGE	K 465-92-9602	INSULATOR	.30	.01	.20	F/CC	21	.1
2-20-86	MAINTENANCE	TELGE	K 465-92-9602	INSULATOR	.01	.00	.20	F/CC	235	.0
2-20-86	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.01	.00	.20	F/CC	234	.0
3-06-86	MAINTENANCE	TELGE	K 465-92-9602	INSULATOR	.20	.02	.20	F/CC	58	.1
3-16-86	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.30	.17	.20	F/CC	288	.9
3-19-86	MAINTENANCE	TELGE	K 465-92-9602	INSULATOR	.23	.04	.20	F/CC	81	.2
3-19-86	MAINTENANCE	MIRANDA	L 464-08-5201	INSULATOR	.38	.07	.20	F/CC	85	.3
4-10-86	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.01	.00	.20	F/CC	28	.0
4-11-86	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.04	.02	.20	F/CC	243	.1
4-11-86	MAINTENANCE	TELGE	K 465-92-9602	INSULATOR	.01	.00	.20	F/CC	78	.0
4-16-86	MAINTENANCE	WOLFORD	R 453-23-1404	INSULATOR	.02	.00	.20	F/CC	30	.0

THE SEVERITY INDEX (SV) LISTED ABOVE SHOULD NOT EXCEED "1.0".
VALUES EXCEEDING "1.0" INDICATE OVER-EXPOSURE INDEPENDENT OF USE OF PERSONAL PROTECTIVE EQUIPMENT.
THE COLUMN TITLED "TIME" IS EXPRESSED IN MINUTES. TIME VALUES EQUAL TO 480 IS THE SAME AS AN 8 HOUR WORKDAY.
VALUES PRECEEDED BY (<) INDICATE RESULTS THAT ARE LESS THAN THE VALUE. THOSE PRECEEDED BY (>) INDICATE GREATER THAN VALUES.

INDUSTRIAL HYGIENE EVALUATION OF AIR MONITORING DATA
KERR-MCGEE MEDICAL SERVICES

=DATE=	=LOCATION=	=EMPLOYEE NAME=		=EMP. NUMB=	=JOB TITLE=	=TWA-T=	=TWA-8=	=STND=	=UNITS=	=TIME=	=SV=
04-28-86	MAINTENANCE	WOLFORD	R	453-23-1404	INSULATOR	.09	.03	.20	F/CC	173	.2
04-28-86	MAINTENANCE	TELGE	K	465-92-9602	INSULATOR	.08	.03	.20	F/CC	175	.2
04-29-86	MAINTENANCE	VALLEJO	V	464-58-2722	INSULATOR	.03	.00	.20	F/CC	18	.0
05-01-86	MAINTENANCE	VALLEJO	V	464-58-2772	INSULATOR	.01	.00	.20	F/CC	50	.0
05-01-86	MAINTENANCE	WOLFORD	R	453-23-1404	INSULATOR	.00	.00	.20	F/CC	50	.0
05-22-86	MAINTENANCE	TELGE	K	465-92-9602	INSULATOR	.96	.13	.20	F/CC	64	.7
06-09-86	MAINTENANCE	WOLFORD	R	453-23-1404	INSULATOR	.15	.07	.20	F/CC	220	.3
06-09-86	MAINTENANCE	VALLEJO	V	464-58-2722	INSULATOR	.03	.01	.20	F/CC	213	.1
06-12-86	MAINTENANCE	WOLFORD	R	453-23-1404	INSULATOR	.02	.00	.20	F/CC	58	.0
09-25-86	MAINTENANCE	WOLFORD	R	453-23-1404	INSULATOR	.50	.03	.20	F/CC	27	.2
09-25-86	MAINTENANCE	VALLEJO	V	464-58-2722	INSULATOR	.50	.03	.20	F/CC	24	.2
11-20-86	MAINTENANCE	MIRANDA	L	464-08-5201	INSULATOR	.07	.01	.20	F/CC	55	.1
12-18-86	MAINTENANCE	WOLFORD	R	453-23-1404	INSULATOR	.02	.00	.20	F/CC	28	.0
01-12-87	MAINTINANCE	WOLFORD	R	453-23-1404	INSULATOR	.24	.03	.20	F/CC	60	.2
01-12-87	MAINTINANCE	VALLEJO	V	464-58-2722	INSULATOR	.14	.02	.20	F/CC	60	.1
02-24-87	CRUDE I	WOLFORD	L	569-22-2865	PRODUCTION OP.	.02	.00	.20	F/CC	55	.0
02-25-87	CRUDE II	VALLEJO	V	464-58-2722	INSULATOR	.00	.00	.20	F/CC	95	.0
03-07-87	CRUDE II			000-00-0000	INSULATOR	.00	.00	.20	F/CC	45	.0
04-13-87	MAINTENANCE	WOLFORD	R	000-00-0000	INSULATOR	.07	.00	.20	F/CC	33	.0
07-30-87	CAT I	AREA		000-00-0000		< .01	< .00	.20	F/CC	110	.0
07-30-87	CAT I	WOLFORD	R	453-23-1404	INSULATOR	.04	.01	.20	F/CC	115	.1
07-31-87	CAT I	WOLFORD	R	453-23-1404	INSULATOR	.03	.03	.20	F/CC	400	.2
07-31-87	CAT I	AREA		000-00-0000		< .01	< .01	.20	F/CC	420	.1
08-03-87	CAT I	VALLEJO	V	464-58-2722	INSULATOR	< .04	< .01	.20	F/CC	125	.1
08-03-87	CAT I	AREA		000-00-0000		< .01	< .00	.20	F/CC	125	.0
08-05-87	SCRAPYARD	GREER	B	454-04-0503	INSULATOR	.02	.00	.20	F/CC	25	.0
08-12-87	SULFOLANE UNIT	WOLFORD	R	453-23-1404	INSULATOR	.04	.01	.20	F/CC	115	.1
08-12-87	SULFOLANE UNIT	AREA		000-00-0000		< .01	< .00	.20	F/CC	120	.0
08-17-87	CAT I	VALLEJO	V	464-58-2722	INSULATOR	< .01	< .00	.20	F/CC	225	.0
08-17-87	CAT I	AREA		000-00-0000		< .01	< .01	.20	F/CC	262	.1
08-18-87	CAT I	WOLFORD	N	453-23-1404	INSULATOR	.02	.02	.20	F/CC	415	.1
08-19-87	CAT I	AREA		000-00-0000		< .01	< .01	.20	F/CC	300	.1
08-19-87	CAT I	VALLEJO	V	464-58-2722	INSULATOR	.01	.01	.20	F/CC	295	.1
08-20-87	CAT I	WOLFORD	N	453-23-1404	INSULATOR	!!!!!!!	.00	.20	F/CC	0	.0
08-20-87	CAT I	AREA		000-00-0000		< .01	< .01	.20	F/CC	410	.1
08-21-87	CAT I	VALLEJO	V	464-58-2722	INSULATOR	.04	.01	.20	F/CC	155	.1
09-01-87	CAT I	VALLEJO	V	464-58-2722	INSULATOR	.02	.02	.20	F/CC	370	.1
09-02-87	CAT I	VALLEJO	V	464-58-2722	INSULATOR	< .01	< .01	.20	F/CC	430	.1
09-03-87	CAT I	VALLEJO	V	464-58-2722	INSULATOR	.02	.01	.20	F/CC	323	.1
09-10-87	CAT I UNIT	WOLFORD	N	453-23-1404	INSULATOR	= .01	= .01	.20	F/CC	270	.1
09-11-87	CAT I UNIT	WOLFORD	N	453-23-1404	INSULATDR	= .05	= .03	.20	F/CC	240	.2
09-16-87	ALKY UNIT	WOLFORD	N	453-23-1404	INSULATOR	= .18	= .04	.20	F/CC	100	.2
09-17-87	ALKY UNIT	WOLFORD	N	453-23-1404	INSULATOR	= .08	= .03	.20	F/CC	150	.2
09-23-87	CRUDE I	WOLFORD	N	453-23-1404	INSULATOR	= .03	= .00	.20	F/CC	34	.0
09-24-87	SULFOLANE UNIT	VALLEJO	V	464-58-2722	INSULATOR	= .04	= .04	.20	F/CC	435	.2
09-25-87	SULFOLANE UNIT	VALLEJO	V	464-58-2722	INSULATOR	= .03	= .03	.20	F/CC	410	.2

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09-29-87	SULFOLANE UNIT	VALLEJO	V	464-58-2722	INSULATOR	=	.01	=	\01	.20	F/CC	295	.1
10-01-87	SULFOLANE UNIT	VALLEJO	V	464-58-2722	INSULATOR	=	.13	=	.12	.20	F/CC	445	.6
10-06-87	ALKY UNIT	VALLEJO	V	464-58-2722	INSULATOR	=	.02	=	.02	.20	F/CC	406	.1
10-07-87	ALKY UNIT	VALLEJO	V	464-58-2722	INSULATOR		.01		.01	.20	F/CC	438	.1
10-14-87	ALKY UNIT	VALLEJO	V	464-58-2722	INSULATOR	=	.02	=	.02	.20	F/CC	380	.1
10-15-87	ALKY UNIT	VALLEJO	V	464-58-2722	INSULATOR	=	.10	=	.09	.20	F/CC	430	.4
11-19-87	CRUDE I	WOLFORD	N	453-23-1404	INSULATOR		.04		.01	.20	F/CC	75	.1
11-23-87	CRUDE I	WOLFORD	N	453-23-1404	INSULATOR	<	.02	<	.00	.20	F/CC	90	.0
11-24-87	CAT I	WOLFORD	N	453-23-1404	INSULATOR	=	.01	=	.00	.20	F/CC	210	.0

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			SUBSTANCE: ASBESTOS							
01-26-88	CRUDE I	WOLFORD N	453-23-1404	INSULATOR	.16	.06	20	F/CC	180	.3
03-01-88	CRUDE II	WOLFORD N	453-23-1404	INSULATOR	= .03	= .00	20	F/CC	75	.0
03-07-88	#3 TERMINAL	AREA	000-00-0000		< .01	< .00	20	F/CC	190	.0
03-07-88	#3 TERMINAL	AREA	000-00-0000		= .02	= .01	20	F/CC	175	.1
03-08-88	#3 TERMINAL	AREA	000-00-0000		.01	.00	20	F/CC	336	.0
03-08-88	#3 TERMINAL	AREA	000-00-0000		< .01	< .00	20	F/CC	336	.0

1B 001570

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SUBSTANCE: ASBESTOS										
01-12-87	MAINTINANCE	WOLFORD R	453-23-1404	INSULATOR	.24	.03	.20	F/CC	60	.2
01-12-87	MAINTENANCE	VALLEJO V	464-58-2722	INSULATOR	.14	.02	.20	F/CC	60	.1
02-24-87	CRUDE I	WOLFORD L	569-22-2865	PRODUCTION OP.	.02	.00	.20	F/CC	55	.0
02-25-87	CRUDE II	VALLEJO V	464-58-2722	INSULATOR	.00	.00	.20	F/CC	95	.0
03-[illegible]-87	CRUDE II		000-00-0000	INSULATOR	.00	.00	.20	F/CC	45	.0
04-13-87	MAINTENANCE	WOLFORD R	000-00-0000	INSULATOR	.07	.00	.20	F/CC	33	.0
[illegible]-30-87	CAT I	AREA	000-00-0000		< .01	< .00	.20	F/CC	110	.0
05-[illegible]-87	CAT I	WOLFORD R	[illegible] 1404	INSULATOR	.04	.01	.20	F/CC	115	.1
07-01-87	CAT I	WOLFORD T	453-23-1404	INSULATOR	.03	.03	.20	F/CC	400	.2
07-21-87	CAT I	AREA	000-00-0000		< .01	< .01	.20	F/CC	420	.1
08-03-87	CAT I	VALLEJO V	464-58-2722	INSULATOR	< .04	< .01	.20	F/CC	125	.1
08-03-87	CAT I	AREA	000-00-0000		< .01	< .00	.20	F/CC	125	.0
08-05-87	SCRAPYARD	WOLFORD R	464-58-2722	INSULATOR	.02	.00	.20	F/CC	25	.0
08-12-8[illegible]	SULFOLANE UNIT	WOLFORD R	453-23-1404	INSULATOR	.04	.01	.20	F/CC	115	.1
08-12-87	SULFOLANE UNIT	AREA	000-00-0000		< .01	< .00	.20	F/CC	120	.0
08-17-87	CAT I	VALLEJO V	464-58-2722	INSULATOR	< .01	< .00	.20	F/CC	225	.0
08-17-87	CAT I	AREA	000-00-0000		< .01	< .01	.20	F/CC	262	.1
08-18-87	CAT I	WOLFORD R	453-23-1404	INSULATOR	.02	.02	.20	F/CC	415	.1
08-19-87	CAT I	AREA	000-00-0000		< .01	< .01	.20	F/CC	300	.1
08-19-87	CAT I	VALLEJO V	464-58-2722	INSULATOR	.01	.01	.20	F/CC	295	.1
08-20-87	CAT I	WOLFORD R	453-23-1404	INSULATOR	*******	.00	.20	F/CC	0	.0
08-20-87	CAT I	AREA	000-00-0000		< .01	< .01	.20	F/CC	410	.1
08-21-87	CAT I	VALLEJO V	464-58-2722	INSULATOR	.04	.01	.20	F/CC	155	.1
08-31-87	CAT I	VALLEJO V	464-58-2722	INSULATOR	.02	.02	.20	F/CC	370	.1
09-02-87	CAT I	VALLEJO V	464-58-2722	INSULATOR	< .01	< .01	.20	F/CC	430	.1
09-03-87	CAT I	VALLEJO V	464-58-2722	INSULATOR	.02	.01	.20	F/CC	323	.1
09-10-87	CAT I UNIT	WOLFORD R	453-23-1404	INSULATOR	= .01	= .01	.20	F/CC	270	.1
09-11-87	CAT I UNIT	WOLFORD R	453-23-1404	INSULATOR	= .05	= .03	.20	F/CC	240	.2
09-16-87	ALKY UNIT	WOLFORD R	453-23-1404	INSULATOR	= .18	= .04	.20	F/CC	100	.2
09-17-87	ALKY UNIT	WOLFORD R	453-23-1404	INSULATOR	= .08	= .03	.20	F/CC	150	.2
09-23-87	CRUDE I	WOLFORD R	453-23-1404	INSULATOR	= .00	= .00	.20	F/CC	34	.0
09-24-87	SULFOLANE UNIT	VALLEJO V	464-58-2722	INSULATOR	= .04	= .04	.20	F/CC	435	.2
09-25-87	SULFOLANE UNIT	VALLEJO V	464-58-2722	INSULATOR	= .03	= .03	.20	F/CC	410	.2
09-29-87	SULFOLANE UNIT	VALLEJO V	464-58-2722	INSULATOR	= .01	= .01	.20	F/CC	295	.1
10-01-87	SULFOLANE UNIT	VALLEJO V	464-58-2722	INSULATOR	= .43	= .12	.20	F/CC	445	.6
10-06-87	ALKY UNIT	VALLEJO V	464-58-2722	INSULATOR	= .02	= .02	.20	F/CC	406	.1
10-07-87	ALKY UNIT	VALLEJO V	464-58-2722	INSULATOR	.01	.01	.20	F/CC	438	.1
10-[illegible]-87	ALKY UNIT	VALLEJO V	464-58-2722	INSULATOR	= .02	= .02	.20	F/CC	380	.1
10-15-87	ALKY UNIT	VALLEJO V	464-58-2722	INSULATOR	= .16	= .09	.20	F/CC	430	.4
11-19-87	CRUDE I	WOLFORD R	[illegible]	INSULATOR	.04	.01	.20	F/CC	75	.1
11-23-87	CRUDE I	WOLFORD R	[illegible]	INSULATOR	< .02	< .00	.20	F/CC	90	.0
11-24-87	CAT I	WOLFORD R	[illegible]-1404	INSULATOR	= .01	= .00	.20	F/CC	210	.0

THE SUBSTANCE [illegible] AREA SHOULD NOT EXCEED "1.0".
VALUES EXCEEDING "1.0" INDICATE [illegible] INDEPENDENT OF USE OF PERSONAL PROTECTIVE EQUIPMENT.
THE COLUMN TITLED "TIME" IS EXPRESSED [illegible] VALUES EQUAL TO 480 IS THE SAME AS AN 8 HOUR WORKDAY.
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1B 001575