

Final

Marine Corps Air Station El Toro  
Hazardous Material/Hazardous Waste  
Management Plan

August 1994

Appendices A - G



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MCAS EI TORO  
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**FINAL HAZARDOUS MATERIAL AND WASTE  
MANAGEMENT PLAN.  
DATED 08/01/1994  
(APPENDIX H: STATE AND LOCAL  
REQUIREMENTS )**  
IS ENTERED IN THE DATABASE AND FILED AS  
ADMINISTRATIVE RECORD NUMBER:  
NO. M60050.001593

**FINAL HAZARDOUS MATERIAL AND WASTE  
MANAGEMENT PLAN.  
DATED 08/01/1994  
( APPENDIX I: PHOTOGRAPHS )**  
IS ENTERED IN THE DATABASE AND FILED AS  
ADMINISTRATIVE RECORD NUMBER:  
NO. M60050.001595

**FINAL HAZARDOUS MATERIAL AND WASTE  
MANAGEMENT PLAN.  
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# Appendix A

**MCAS EL TORO: HAZARDOUS WASTES  
SHIPPED OFF-STATION, CALENDAR YEAR 1992**

MCAS-El Toro: Manifest Log 1992

State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
<b>Extremely Hazardous Waste</b>																
141		D001		1	DM	52	P		52			E	Calcium hypochlorite	92786108	12/02/92	WAD058367152
141		D001		1	DM	71	P		71			E	Calcium hypochlorite	91663573	04/17/92	WAD058367152
141		D001		1	DF	25	P		25			E	Waste calcium hypochlorite	89588671	07/07/92	CAD097030993
141		D002		1	DF	25	P		25	173	0.063%	E	Waste hypochlorite solution	91788247	03/30/92	CAT080010101
181		D002	D009	1	DM	27	P		27			E	Mercury batteries w/ potassium hydroxide	91661155	09/09/92	WAD058367152
181		D002	D009	1	DM	85	P		85			E	Mercury batteries w/ potassium hydroxide	92786108	12/02/92	WAD058367152
181		D002	D009	1	DM	104	P		104			E	Mercury batteries w/ potassium hydroxide	91664427	07/27/92	WAD058367152
181		D002	D009	1	DM	187	P		187			E	Mercury batteries w/ potassium hydroxide	91663573	04/17/92	WAD058367152
181		D009		1	DM	40	P		40			E	Waste mercury	91663138	11/06/92	WAD058367152
181		D002		2	DF	25	P		25	468	0.170%	E	Waste metallic mercury, contaminated w/debris	91788357	03/06/92	CAD981424732
261		NR		1	DM	136	K	2.20	299			E X	Drained OFCs	91522041	10/05/92	AZD983478322
261		NR		2	DM	228	K	2.20	502			E X	Drained OFCs and rags	91522044	10/20/92	AZD983478322
261		NR		1	CM	1407	K	2.20	3095			E X	Drained transformers	90708389	12/01/92	KSD981506025
261		NR		2	CM	4454	K	2.20	9799			E X	Drained transformers	91522049	11/09/92	AZD983478322
261		NR		2	TP	4769	K	2.20	10492			E X	Drained transformers	89431828	04/13/92	AZD982465866
261		NR		30	CM	6464	K	2.20	14221			E X	Drained transformers	91522041	10/05/92	AZD983478322
261		NR		2	TP	6773	K	2.20	14901			E X	Drained transformers	89431828	04/13/92	AZD982465866
261		NR		5	TP	7839	K	2.20	17246			E X	Drained transformers	90766627	03/16/92	AZD982465866
261		NR		1	CM	8772	K	2.20	19298			E X	Drained transformers	91522043	10/19/92	AZD983478322
261		NR		3	TP	13386	K	2.20	29419			E X	Drained transformers	90766643	02/11/92	AZD982465866
261		NR		15	CM	5132	K	2.20	11290			E X	Drained transformers (1-3) and tank (1)	91522044	10/20/92	AZD983478322
261		NR		1	DM	35	K	2.20	99			E X	Drums of switches w/ PCBs	90766609	03/23/92	AZD982465866
261		NR		1	DM	50	K	2.20	110			E X	Drums of switches w/ PCBs	88329231	03/23/92	AZD982465866
261		NR		1	DM	68	K	2.20	150			E X	Drums of switches w/ PCBs	90766620	02/27/92	AZD982465866
261		NR		4	DM	236	K	2.20	519			E X	Drums of switches w/ PCBs	90766627	03/16/92	AZD982465866
261		NR		5	DM	455	K	2.20	1001			E X	Drums of switches w/ PCBs	89431828	04/13/92	AZD982465866
261		NR		5	DM	885	K	2.20	1947			E X	Drums of switches, debris	89431828	04/13/92	AZD982465866
261		NR		1	DM	84	K	2.20	185			E X	Light ballast w/ PCBs	91067922	02/21/92	KSD981506025
261		NR		1	DM	90	K	2.20	1651			E X	Light ballast w/ PCBs	91753891	07/13/92	NYT330010000
261		NR		8	TP	1945	K	2.20	4279			E X	Liquid filled transformers	92275729	09/09/92	AZD982465866
261		NR		1	TP	2695	K	2.20	5929			E X	Liquid filled transformers	90766609	03/23/92	AZD982465866
261		NR		2	TP	4047	K	2.20	8903			E X	Liquid filled transformers	90766627	03/16/92	AZD982465866
261		NR		5	TP	5111	K	2.20	11244			E X	Liquid filled transformers	90766643	02/11/92	AZD982465866
261		NR		4	TP	8400	K	2.20	18480			E X	Liquid filled transformers	90766620	02/27/92	AZD982465866
261		NR		7	TP	13427	K	2.20	29539			E X	Liquid filled transformers	88329231	03/23/92	AZD982465866
261		NR		11	DM	2035	K	2.20	4477			E X	Mineral oil with PCBs	91522044	10/20/92	AZD983478322
261		NR		1	DM	111	K	2.20	244			E X	Oil contaminated w/ PCBs	91067922	02/21/92	KSD981506025
261		NR		1	DM	189	K	2.20	416			E X	Oil contaminated w/ PCBs	91522044	10/20/92	AZD983478322
261		NR		2	DM	591	K	2.20	1300			E X	Oil contaminated w/ PCBs	90766620	02/27/92	AZD982465866
261		NR		4	DM	756	K	2.20	1663			E X	Oil contaminated w/ PCBs	91522041	10/05/92	AZD983478322
261		NR		4	DM	1060	K	2.20	2332			E X	Oil contaminated w/ PCBs	90708389	12/01/92	KSD981506025
261		NR		1	DM	1134	K	2.20	2495			E X	Oil contaminated w/ PCBs	89431828	04/13/92	AZD982465866
261		NR		8	DM	1480	K	2.20	3256			E X	Oil contaminated w/ PCBs	91522041	10/05/92	AZD983478322
261		NR		8	DM	2091	K	2.20	4600			E X	Oil contaminated w/ PCBs	90766609	03/23/92	AZD982465866
261		NR		4	DM	2277	K	2.20	4899			E X	Oil contaminated w/ PCBs	89431828	04/13/92	AZD982465866
261		NR		10	DM	3091	K	2.20	6800			E X	Oil contaminated w/ PCBs	90766627	03/16/92	AZD982465866

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
261		NR		12	DM	4168	K	2.20	9170			E X	Oil contaminated w/ PCBs	90766613	02/11/92	AZD982465866
261		NR		3	DM	327	K	2.20	719			E X	Oil fuse cutouts w/ PCBs	91522049	11/09/92	AZD983478322
261		NR		4	CM	91	K	2.20	200			E X	PCB contaminated cabinets	90766609	03/23/92	AZD982465866
261		NR		8	DM	1426	K	2.20	3137			E X	PCB contaminated oil	91522049	11/09/92	AZD983478322
261		NR		27	DM	5189	K	2.20	11416			E X	PCB contaminated oil	91522043	10/19/92	AZD983478322
261		NR		1	DM	140	K	2.20	308			E X	Small caps w/ PCBs	90826135	06/05/92	UTD991301748
261		NR		1	CM	522	K	2.20	1148	273211	99.279%	E X	Transformer with PCBs	90826135	06/05/92	UTD991301748
541		NR		2	DF	450	P		450	450	0.164%	E	Photochemical Bleach - labpack	91788228	01/27/92	CAT080010101
725		D009	U151	1	DM	65	P		65			E	Waste mercury	91661461	10/07/92	WAD058367152
725		D009		1	DM	100	P		100	165	0.060%	E	Waste mercury	91665055	02/18/92	WAD058367152
791		D002		1	DM	727	P		727	727	0.264%	E	Waste hydrochloric acid solution	92786224	12/14/92	WAD058367152
<b>Total Extremely Hazardous Waste (lb)</b>									<b>275194</b>		<b>100%</b>					
<b>Hazardous Waste</b>																
122		D002		1	DM	144	P		144				Absorbent w/ sodium hydroxide	91504774	06/17/92	WAD058367152
122		D002		1	DF	1	G	1.50	13				Ammonium hydroxide	89588663	07/07/92	CAT080010101
122		D002		1	DF	5	G	1.50	63				Ammonium hydroxide	91788217	01/31/92	CAT080010101
122		D002		1	DM	247	P		247				Cleaning compound	91665087	02/25/92	WAD058367152
122		D002		24	DM	1184	P		1184				Cleaning compound	91664681	06/04/92	WAD058367152
122		D002		1	DM	448	P		448				Cleaning compound w/ sodium hydroxide	91663573	04/17/92	WAD058367152
122		D002		1	DM	486	P		486				Cleaning compound w/ sodium hydroxide	91663573	04/17/92	WAD058367152
122		D002		2	DM	785	P		785				Cleaning compound w/ sodium hydroxide	91661259	09/23/92	WAD058367152
122		D002		1	DM	32	P		32				Corrosion inhibitor/dispersant with sodium hydroxide	91661312	09/30/92	WAD058367152
122		D002	D023	2	DM	260	P		260				Floor polish remover	91664589	05/14/92	WAD058367152
122		D002		1	DF	10	G	0.80	67				Oil-spec alkaline cleaner	90988707	06/11/92	CAT080010101
122		D002		2	DM	1225	P		1225				Sodium hydroxide solution	92786224	12/14/92	WAD058367152
122		D002		2	DM	363	P		363				Waste sodium hydroxide	91661312	09/30/92	WAD058367152
122		D002		1	DM	42	P		42	5358	0.134%		Wet alkaline batteries	92786108	12/02/92	WAD058367152
123		D002		1	DF	1	G	0.80	7				Alkaline liquid	89588664	07/07/92	CAT080010101
123	551	D001	D002	1	DF	25	P		25	32	0.001%		Lab pack - waste corrosive liquids (diethylenetriamine, phenol)	90988752	07/09/92	CAT080010101
132		D005		1	DM	32	P		32				Latex paint w/ metals	91664684	06/04/92	WAD058367152
132		D008		1	DM	340	P		340				Neutralized acid w/ lead	91664427	07/27/92	WAD058367152
132		D008		2	DM	819	P		819				Neutralized acid w/ lead	91663573	04/17/92	WAD058367152
132		D008		1	DM	434	P		434				Neutralized battery acid	91664641	07/14/92	WAD058367152
132		D008		2	DM	912	P		912				Neutralized battery acid	91664589	05/14/92	WAD058367152
132		D008		2	DM	1088	P		1088	3625	0.090%		Neutralized battery acid	91661255	09/23/92	WAD058367152
133		F002			DM	65	P		65				Detergent w/ 1,1,1-TCA	91664684	06/04/92	WAD058367152
133		F002		1	DM	119	P		119	184	0.005%		Detergent w/ 1,1,1-TCA	91661312	09/30/92	WAD058367152
135		NR		1	DM	55	G	1.00	459				Waste water	92480955	11/30/92	CAT080010101
135		NR		1	TT	2800	G	1.00	23352				Waste water	92000409	07/27/92	CAT080013352
135		NR		1	TT	5000	G	1.00	41700				Waste water	92001198	07/27/92	CAT080013352

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
135		NR		1	TT	5000	G	1.00	41700				Waste water	92001117	07/10/92	CAT080013352
135		NR		4	DM	220	G	1.00	1835	1090.60	2.721%		Water contaminated with paint, degreaser, debris	92000636	09/30/92	CAT080011059
141	331	NR		3	DM	1040	P		1040	1040	0.026%		Decon packets, solid powder	91788261	02/26/92	CAT000646117
151		NR		9	BA	1	Y		57			X	Asbestos	91822177	01/29/92	CAD067786749
151		NR		1	DM	220	P		220			X	Asbestos	91664925	02/19/92	WAD058367152
151		NR		1	CM	5	Y		285			X	Asbestos	91822021	07/28/92	CAD067786749
151		NR		3	DM	298	P		298			X	Asbestos	91663310	03/13/92	WAD058367152
151		NR		128	BA	8	Y		456			X	Asbestos	88283084	04/06/92	CAD067786749
151		NR		1	CM	10	Y		570			X	Asbestos	92788479	12/21/92	CAD09007626
151		NR		1	CM	20	Y		1140			X	Asbestos	91822072	01/09/92	CAD067786749
151		NR		48	BA	20	Y		1140			X	Asbestos	88283087	04/08/92	CAD067786749
151		NR		684	BA	22	Y		1254			X	Asbestos	90571452	06/04/92	CAD990794133
151		NR		681	BA	22	Y		1254			X	Asbestos	90571450	06/04/92	CAD990794133
151		NR		730	BA	23	Y		1311			X	Asbestos	90571451	06/04/92	CAD990794133
151		NR		1	CM	35	Y		1995			X	Asbestos	91822056	01/08/92	CAD067786749
151		NR		9	BA	2154	P		2154			X	Asbestos	90988702	06/05/92	CAD067786749
151		NR		3	CW	3428	P		3428	15562	0.388%	X	Asbestos	91504774	06/17/92	WAD058367152
171		D006	D007 D008	1	DM	245	P		245				Washrack sludge	91663571	04/17/92	WAD058367152
171		D006	D007 D008	3	DM	1112	P		1112				Washrack sludge	91663573	04/17/92	WAD058367152
171		D006	D007 D008	3	DM	1114	P		1114				Washrack sludge	91661461	10/07/92	WAD058367152
171		D006	D007 D008	2	DM	1222	P		1222				Washrack sludge	91664925	02/19/92	WAD058367152
171		D006	D007 D008	2	DM	1240	P		1240				Washrack sludge	91664641	07/14/92	WAD058367152
171		D006	D007 D008	4	DM	2226	P		2226				Washrack sludge	91661155	09/09/92	WAD058367152
171		D006	D007 D008	6	DM	2980	P		2980				Washrack sludge	91661243	09/25/92	WAD058367152
171		D006	D007 D008	14	DM	9960	P		9960	20099	0.501%		Washrack sludge	91663521	04/09/92	WAD058367152
172		D006	D007 D008	1	DM	210	P		210				Blasting booth sand w/ paint chips	91661243	09/25/92	WAD058367152
172		D005	D006 D007 D008	3	DM	3180	P		3180				Sand blast grit w/ barium, cadmium, chromium	91663573	04/17/92	WAD058367152
172		D005	D006 D007 D008	1	DM	582	P		582				Sand blast grit w/ barium, cadmium, chromium, lead	91664684	06/04/92	WAD058367152
172		D005	D006 D007 D008	3	DM	1750	P		1750				Sand blast grit w/ barium, cadmium, chromium, lead	91505130	07/28/92	WAD058367152
172		D005	D006 D007 D008	2	DM	1404	P		1404				Sand blast grit w/ barium, chromium, lead	91504763	06/08/92	WAD058367152
172		D008		2	CM	16	Y		43520				Waste sandblast grit	92000604	09/11/92	NVT330010000
172		D008		2	CM	16	Y		43520	94196	2.350%		Waste sandblast grit	92000603	09/11/92	NVT330010000
181		D007		1	DM	269	P		269				Air filter material w/ chromium	91661243	09/25/92	WAD058367152
181		D007		3	DM	425	P		425				Air filter material w/ chromium	91664589	05/14/92	WAD058367152
181		NR		2	DM	1632	P		1632				Chlorine bleaching powder	91663347	03/20/92	WAD058367152
181		NR		1	CM	7	T	2000	14000				Concrete, piping and tanks	91538982	02/24/92	CAT000646117
181		NR		1	CM	7	T	2000	14000				Concrete, piping and tanks	91538981	02/24/92	CAT000646117
181		D002	D009	1	DM	48	P		48				Dry alkaline batteries w/ manganese	91661312	09/30/92	WAD058367152
181		D001	D008	1	DM	126	P		126			X	Lead acid batteries	91661461	10/07/92	WAD058367152
181		D001	D003	2	DM	490	P		490				Lithium batteries	91663573	04/17/92	WAD058367152
181		D001	D003	2	DM	742	P		742				Lithium batteries	91664684	06/04/92	WAD058367152
181		D001	D003	2	DM	863	P		863				Lithium batteries	91661243	09/25/92	WAD058367152
181		D002	D006	1	DM	26	P		26				Nickel cadmium batteries	91664684	06/04/92	WAD058367152
181		NR		1	DM	58	P		58				Oil debris	92786224	12/14/92	WAD058367152
181		NR		1	DM	95	P		95				Oil debris	91664427	07/27/92	WAD058367152
181		NR		1	DM	225	P		225				Oil debris	91662830	10/14/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
181		NR		2	DM	300	P		300				Oil debris	91661259	09/23/92	WAD058367152
181		NR		1	DM	400	P		400				Oil debris	92786074	11/19/92	WAD058367152
181		NR		3	DM	1172	P		1172				Oil debris	91660969	08/21/92	WAD058367152
181		NR		7	DM	1488	P		1488				Oil debris	91661312	09/30/92	WAD058367152
181		NR		6	DM	2805	P		2805				Oil debris	91663113	11/06/92	WAD058367152
181		NR		3	DM	582	P		582				Oil spill cleanup	91662830	10/14/92	WAD058367152
181		NR		4	DM	1383	P		1383				Oil spill cleanup, petroleum oils	91661155	09/09/92	WAD058367152
181		NR		22	DM	4650	P		4650				Oil spill cleanup, petroleum oils	91664589	05/14/92	WAD058367152
181		NR		11	DM	5160	P		5160				Oil spill cleanup, petroleum oils	91663573	04/17/92	WAD058367152
181		NR		26	DM	8516	P		8516				Oil spill cleanup, petroleum oils	91663380	03/26/92	WAD058367152
181		NR		1	DM	247	P		247				Oil spill cleanup, petroleum oils, JP-5	91664641	07/14/92	WAD058367152
181		NR		2	DM	314	P		314				Oil spill cleanup, petroleum oils, JP-5	91664661	06/17/92	WAD058367152
181		NR		6	DM	992	P		992				Oil spill cleanup, petroleum oils, JP-5	91504774	06/17/92	WAD058367152
181		NR		6	DM	1269	P		1269				Oil spill cleanup, petroleum oils, JP-5	91664589	05/14/92	WAD058367152
181		NR		17	DM	2866	P		2866				Oil spill cleanup, petroleum oils, JP-5	91665087	02/25/92	WAD058367152
181		NR		8	DM	4110	P		4110				Oil spill cleanup, petroleum oils, JP-5	91504773	06/10/92	WAD058367152
181		NR		22	DM	8411	P		8411				Oil spill cleanup, petroleum oils, JP-5	91664684	06/04/92	WAD058367152
181		NR		1	DM	300	P		300				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91663347	03/20/92	WAD058367152
181		NR		3	DM	462	P		462				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91505130	07/28/92	WAD058367152
181		NR		3	DM	470	P		470				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91663317	03/26/92	WAD058367152
181		NR		5	DM	1139	P		1139				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91663459	03/31/92	WAD058367152
181		NR		10	DM	2084	P		2084				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91663573	04/17/92	WAD058367152
181		NR		30	DM	8328	P		8328				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91505130	07/28/92	WAD058367152
181		NR		56	DM	11138	P		11138				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91663571	04/17/92	WAD058367152
181		NR		28	DM	13017	P		13017				Oil spill cleanup, petroleum oils, JP-5, aviation fuel	91663310	03/13/92	WAD058367152
181		D005	D006 D007 D008	1	DM	124	P		124				Paint booth filters	91661243	09/25/92	WAD058367152
181		D005	D006 D007 D008	1	DM	218	P		218				Paint booth filters	91661255	09/23/92	WAD058367152
181		D005	D006 D007 D008	4	DM	441	P		441				Paint booth filters	91663521	04/09/92	WAD058367152
181		NR		1	DM	592	P		592			X	Soil contaminated with JP-5, petroleum distillates	91663159	03/31/92	WAD058367152
181		NR		1	DM	760	P		760			X	Soil w/ diesel	91663310	03/13/92	WAD058367152
181		NR		2	CM	80	Y	217600				X	Soil, plastic, PPE from drilling operations	88654331	12/03/92	CAD000633164
181		NR		2	CM	80	Y	217600				X	Soil, plastic, PPE from drilling operations	90985993	12/15/92	CAD000633164
181		NR		2	CF	1020	P		1020				Waste bleaching powder	91663573	04/17/92	WAD058367152
181		D002		1	DM	45	P		45	553002	13.797%		Waste lantern batteries, dry, containing potassium hydroxide	91662996	11/06/92	WAD058367152
211		NR		1	DM	45	G	1.60	600				Freon	91788233	02/04/92	CAD089446710
211	741	D007		1	DM	15	G	0.80	100				Methylene chloride, phenol, sodium chromate	91788217	01/31/92	CAT080010101
211		D002	D007 D039	1	DM	126	P		126				Paint remover	91663521	04/09/92	WAD058367152
211		D002	F002 F004 D026	5	DM	2002	P		2002				Paint remover w/ methylene chloride	92786187	12/02/92	WAD058367152
211		D002	F002 F004 D026	2	DM	286	P		286				Paint remover w/ methylene chloride, cresol, phenol	91665055	02/18/92	WAD058367152
211		D002	F002 F004 D026	4	DM	2466	P		2466				Paint remover w/ methylene chloride, cresol, phenol	91663573	04/17/92	WAD058367152
211		F002	F005 F007	1	DM	92	P		92				Paint thinner w/ methylene chloride	91661243	09/23/92	WAD058367152
211		F002		2	DM	254	P		254				Rags contaminated w/ methylene chloride	91664925	02/19/92	WAD058367152
211		F002		1	DM	98	P		98				Rags w/ 1,1,1-TCA	91504773	06/10/92	WAD058367152
211		D007	F002	1	DM	612	P		612				Sand, debris w/ paint stripper	91504773	06/10/92	WAD058367152
211		D001	F001 F002	1	DM	305	P		305				Solvent w/ fuel	91663459	03/31/92	WAD058367152
211		NR			DM	754	P		754				Unused trichlorotrifluoroethane	91664684	06/04/92	WAD058367152
211		NR		1	TT	2344	G	0.80	15639				Waste petroleum oil	90832120	10/01/92	CAT080025711
211		F002		2	DM	144	P		144	23479	0.586%		Waste trichlorotrifluoroethane	91664427	07/27/92	WAD058367152
212		U226		1	DM	294	P		294				1,1,1-TCA	91663521	04/09/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
212		F001		2	DM	648	P		648				1,1,1-TCA	91663321	01/09/92	WAD058367152
212		D001	F003	1	DM	70	P		70				Acetone	91665055	02/18/92	WAD058367152
212		D001	F002	1	DM	80	P		80				Acetone	91664427	07/27/92	WAD058367152
212		D001		3	DM	688	P		688				Isopropanol	91664684	06/04/92	WAD058367152
212		D001		1	DM	48	P		48				Isopropyl alcohol	91663113	11/06/92	WAD058367152
212		D001		1	DM	236	P		236				Isopropyl alcohol	91663571	04/17/92	WAD058367152
212		D001		1	DM	364	P		364				Isopropyl alcohol w/ ethyl alcohol	91664589	05/14/92	WAD058367152
212		D001	D035 F005	1	DM	74	P		74				MEK	91660969	08/21/92	WAD058367152
212		D001	D035 U159	1	DM	76	P		76				MEK	91661461	10/07/92	WAD058367152
212		D001	F005 D035	1	DM	93	P		93				MEK	91663573	04/17/92	WAD058367152
212		D001	F005 D035	1	DM	96	P		96				MEK	91661255	09/23/92	WAD058367152
212		D001	F005 D035	1	DM	99	P		99				MEK	91665055	02/18/92	WAD058367152
212		D001	D035 U159	1	DM	160	P		160				MEK	92786108	12/02/92	WAD058367152
212		D001	U154	1	DM	39	P		39				Methanol	91661461	10/07/92	WAD058367152
212		D001	U154	1	DM	51	P		51				Methanol	91664427	07/27/92	WAD058367152
212		D001		3	DF	350	P		350				Miscellaneous aerosol spray paint, coating, lube, cleaners	AR-547681	01/27/92	AR1069748192
212		D001	F003 F005 D035	1	DM	44	P		44				Paint thinner w/ MEK, n-butylacetate, xylene, toluene	92786224	12/14/92	WAD058367152
212		D001	F003 F005 D035	1	DM	66	P		66				Paint thinner w/ MEK, n-butylacetate, xylene, toluene	91661259	09/23/92	WAD058367152
212		D001	F003 F005 D035	1	DM	74	P		74				Paint thinner w/ MEK, n-butylacetate, xylene, toluene	91664684	06/04/92	WAD058367152
212		D001	F003 F005 D035	1	DM	86	P		86				Paint thinner w/ MEK, n-butylacetate, xylene, toluene	91663573	04/17/92	WAD058367152
212		D001	F003 F005 D035	2	DM	148	P		148				Paint thinner w/ MEK, n-butylacetate, xylene, toluene	91663521	04/09/92	WAD058367152
212		D001	F003 F005 D035	5	DM	371	P		371				Paint thinner w/ MEK, n-butylacetate, xylene, toluene	91661010	09/01/92	WAD058367152
212		D001	F003 F005 D035	3	DM	902	P		902				Paint thinner w/ MEK, n-butylacetate, xylene, toluene	91663521	04/09/92	WAD058367152
212		D001	F003 F005 D035	1	DM	60	P		60				Solvent spill cleanup	91504773	06/10/92	WAD058367152
212		D001	F003 F005 D035	1	DM	61	P		61				Solvent spill cleanup	92786108	12/02/92	WAD058367152
212		D001	F003 F005 D035	1	DM	63	P		63				Solvent spill cleanup	91661010	09/01/92	WAD058367152
212		D001	F003 F005 D035	1	DM	124	P		124				Solvent spill cleanup	91505130	07/28/92	WAD058367152
212		D001	F003 F005 D035	1	DM	129	P		129				Solvent spill cleanup	92786108	12/02/92	WAD058367152
212		D001	F003 F005 D035	1	DM	171	P		171				Solvent spill cleanup	91663317	03/26/92	WAD058367152
212		D001	F003 F005 D035	2	DM	194	P		194				Solvent spill cleanup	91663573	04/17/92	WAD058367152
212		D001	F003 F005 D035	1	DM	202	P		202				Solvent spill cleanup	91663310	03/13/92	WAD058367152
212		D001	F003 F005 D035	1	DF	234	P		234				Solvent spill cleanup	91664725	06/19/92	WAD058367152
212		D001	F003 F005 D035	1	DM	240	P		240				Solvent spill cleanup	91504774	06/17/92	WAD058367152
212		D001	F003 F005 D035	1	DM	300	P		300				Solvent spill cleanup	91664725	06/19/92	WAD058367152
212		D001	F003 F005 D035	2	DM	442	P		442				Solvent spill cleanup	91661243	09/25/92	WAD058367152
212		D001	F003 F005 D035	1	DM	453	P		453				Solvent spill cleanup	91664427	07/27/92	WAD058367152
212		D001	F003 F005 D035	1	DM	478	P		478				Solvent spill cleanup	91664684	06/04/92	WAD058367152
212		D001	F003 F005 D035	3	DM	701	P		701				Solvent spill cleanup	91663459	03/31/92	WAD058367152
212		D001	F003 F005 D035	3	DM	714	P		714				Solvent spill cleanup	91663258	03/11/92	WAD058367152
212		D001	F003 F005 D035	2	DM	718	P		718				Solvent spill cleanup	91663347	03/20/92	WAD058367152
212		D001	F003 F005 D035	7	DM	1021	P		1021				Solvent spill cleanup	91663571	04/17/92	WAD058367152
212		D001	F003 F005 D035	7	DM	1118	P		1118	12580	0.314%		Solvent spill cleanup	91663521	04/09/92	WAD058367152
213		D005		1	DM	102	P		102				Aerosol corrosion preventative w/ banium	91663317	03/26/92	WAD058367152
213		D005		1	DM	207	P		207				Aerosol corrosion preventative w/ banium	91665055	02/18/92	WAD058367152
213		D005		1	DM	62	P		62				Aerosol corrosion preventative w/banum	91661312	09/30/92	WAD058367152
213		D001		1	DM	67	P		67				Corrosion preventative compound	91661259	09/23/92	WAD058367152
213		D001		1	DM	69	P		69				Corrosion preventative compound	91664684	06/04/92	WAD058367152
213		D001		1	DM	82	P		82				Corrosion preventative compound	91661243	09/25/92	WAD058367152
213		D001		1	DM	100	P		100				Corrosion preventative compound	91664925	02/19/92	WAD058367152
213		D001		1	DM	150	P		150				Corrosion preventative compound	91661243	09/25/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
213		D001		1	DM	199	P		199				Corrosion preventative compound	91665055	02/18/92	WAD058367152
213		D001		3	DM	211	P		211				Corrosion preventative compound	91661010	09/01/92	WAD058367152
213		D001		1	DM	226	P		226				Corrosion preventative compound	91665055	02/18/92	WAD058367152
213		D001		2	DM	332	P		332				Corrosion preventative compound	91663573	04/17/92	WAD058367152
213		D001		2	DM	825	P		825				Corrosion preventative compound	91664925	02/19/92	WAD058367152
213		D001		1	DM	40	P		40				Mineral spirits (PD-680)	91663380	03/26/92	WAD058367152
213		D001		1	DM	58	P		58				Mineral spirits (PD-680)	91661010	09/01/92	WAD058367152
213		D001		1	DM	76	P		76				Mineral spirits (PD-680)	91661155	09/09/92	WAD058367152
213		D001		1	DM	76	P		76				Mineral spirits (PD-680)	92786108	12/02/92	WAD058367152
213		D001		1	DM	80	P		80				Mineral spirits (PD-680)	91664427	07/27/92	WAD058367152
213		D001		1	DM	134	P		134				Mineral spirits (PD-680)	91664684	06/04/92	WAD058367152
213		D001		2	DM	238	P		238				Mineral spirits (PD-680)	91663521	04/09/92	WAD058367152
213		D001		1	DM	250	P		250				Mineral spirits (PD-680)	91663571	04/17/92	WAD058367152
213		D001		1	DM	252	P		252				Mineral spirits (PD-680)	92786224	12/14/92	WAD058367152
213		D001		1	DM	296	P		296				Mineral spirits (PD-680)	91665055	02/18/92	WAD058367152
213		D001		1	DM	304	P		304				Mineral spirits (PD-680)	91504763	06/08/92	WAD058367152
213		D001	D039 D018	5	DM	430	P		430				Mineral spirits (PD-680)	92391612	11/23/92	CAT000613976
213		D001		2	DM	438	P		438				Mineral spirits (PD-680)	91661259	09/23/92	WAD058367152
213		D001		1	DM	474	P		474				Mineral spirits (PD-680)	91664641	07/14/92	WAD058367152
213		D001		2	DM	514	P		514				Mineral spirits (PD-680)	91663310	03/13/92	WAD058367152
213		D001		2	DM	754	P		754				Mineral spirits (PD-680)	91663459	03/31/92	WAD058367152
213		D001		2	DM	772	P		772				Mineral spirits (PD-680)	91505130	07/28/92	WAD058367152
213		D001	D039 D018	15	DM	1126	P		1126				Mineral spirits (PD-680)	92451601	12/16/92	CAT000613976
213		D001	D039 D018	15	DM	1208	P		1208				Mineral spirits (PD-680)	92139176	08/18/92	CAT000613976
213		D001		4	DM	1221	P		1221				Mineral spirits (PD-680)	92786074	11/19/92	WAD058367152
213		D001	D039 D018	19	DM	1470	P		1470				Mineral spirits (PD-680)	92450971	12/16/92	CAT000613976
213		D001	F003	1	DM	55	G	0.803	36.7				Mixed solvents - polyurethane paint, toluene, xylene, adhesives, resins.	91788245	03/30/92	CAD089446710
213		D001		1	DM	204	P		204				Naphtha, mineral spirits	91664684	06/04/92	WAD058367152
213		D001		1	DM	284	P		284				Naphtha, mineral spirits	91661259	09/23/92	WAD058367152
213		D001		1	DM	101	P		101				Plastic polish	91665055	02/18/92	WAD058367152
213		D001		1	DM	132	P		132				Plastic polish	91505130	07/28/92	WAD058367152
213		D001		2	DM	502	P		502				Plastic polish	91664589	05/14/92	WAD058367152
213		D001		1	DM	284	P		284	14717	0.367%		Walkway compound w/ mineral spirits	91663521	04/09/92	WAD058367152
214		F002		1	DM	180	P		180				1,1,1-TCA contaminated w/ petroleum distillates	91663258	03/11/92	WAD058367152
214		D001		2	DM	98	P		98				Aerosol lubricants	91663521	04/09/92	WAD058367152
214		D001	D007 D035	1	DM	38	P		38				Aerosol paint cans w/ zinc chromate, mineral spirits	91661010	09/01/92	WAD058367152
214		D001	D007 D035	1	DM	52	P		52				Aerosol paint cans w/ zinc chromate, mineral spirits	91661155	09/09/92	WAD058367152
214		D001	D007 D035	1	DM	70	P		70				Aerosol paint cans w/ zinc chromate, mineral spirits	91663573	04/17/92	WAD058367152
214		D001	D007 D035	1	DM	90	P		90				Aerosol paint cans w/ zinc chromate, mineral spirits	91663347	03/20/92	WAD058367152
214		D001	D007 D035	1	DM	92	P		92				Aerosol paint cans w/ zinc chromate, mineral spirits	91665055	02/18/92	WAD058367152
214		D001	D007 D035	3	DM	108	P		108				Aerosol paint cans w/ zinc chromate, mineral spirits	91660969	08/21/92	WAD058367152
214		D001	D007 D035	1	DM	123	P		123				Aerosol paint cans w/ zinc chromate, mineral spirits	91661259	09/23/92	WAD058367152
214		D001	D007 D035	1	DM	138	P		138				Aerosol paint cans w/ zinc chromate, mineral spirits	91663571	04/17/92	WAD058367152
214		D001	D007 D035	1	DM	158	P		158				Aerosol paint cans w/ zinc chromate, mineral spirits	91663347	03/20/92	WAD058367152
214		D001	D007 D035	2	DM	174	P		174				Aerosol paint cans w/ zinc chromate, mineral spirits	91663317	03/26/92	WAD058367152
214		D001	D007 D035	2	DM	178	P		178				Aerosol paint cans w/ zinc chromate, mineral spirits	91504763	06/08/92	WAD058367152
214		D001	D007 D035	2	DM	182	P		182				Aerosol paint cans w/ zinc chromate, mineral spirits	91504774	06/17/92	WAD058367152
214		D001	D007 D035	1	DM	194	P		194				Aerosol paint cans w/ zinc chromate, mineral spirits	91664589	05/14/92	WAD058367152
214		D001	D007 D035	2	DM	202	P		202				Aerosol paint cans w/ zinc chromate, mineral spirits	91664641	07/14/92	WAD058367152
214		D001	D007 D035	2	DM	202	P		202				Aerosol paint cans w/ zinc chromate, mineral spirits	91663347	03/20/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
214		D001	D007 D035	2	DM	210	P		210				Aerosol paint cans w/ zinc chromate, mineral spirits	91663310	03/13/92	WAD058367152
214		D001	D007 D035	2	DM	270	P		270				Aerosol paint cans w/ zinc chromate, mineral spirits	91661010	09/01/92	WAD058367152
214		D001	D007 D035	2	DM	276	P		276				Aerosol paint cans w/ zinc chromate, mineral spirits	91663684	06/04/92	WAD058367152
214		D001	D007 D035	3	DM	334	P		334				Aerosol paint cans w/ zinc chromate, mineral spirits	91663317	03/26/92	WAD058367152
214		D001	D007 D035	6	DM	376	P		376				Aerosol paint cans w/ zinc chromate, mineral spirits	91663684	06/04/92	WAD058367152
214		D001	D007 D035	8	DM	1102	P		1102				Aerosol paint cans w/ zinc chromate, mineral spirits	91663521	04/09/92	WAD058367152
214		D001	D035	1	DM	48	P		48				Aerosol stencil marking w/ methylene chloride	91661010	09/01/92	WAD058367152
214		D002		1	DM	33	P		33				Aircraft cleaning compound	91661312	09/30/92	WAD058367152
214		D002		1	DM	45	P		45				Aircraft cleaning compound	91664589	05/14/92	WAD058367152
214		D002		1	DM	87	P		87				Aircraft cleaning compound	91663571	04/17/92	WAD058367152
214		D006	D018 D039 D040 D021	3	DM	108	P		108				Aircraft cleaning compound	92451601	12/16/92	CAT000613976
214		D002		1	DM	160	P		160				Aircraft cleaning compound	91663310	03/13/92	WAD058367152
214		D002		1	DM	216	P		216				Aircraft cleaning compound	91665055	02/18/92	WAD058367152
214		D002		1	DM	334	P		334				Aircraft cleaning compound	91664589	05/14/92	WAD058367152
214		D002		1	DM	374	P		374				Aircraft cleaning compound	91661259	09/23/92	WAD058367152
214		D002		2	DM	430	P		430				Aircraft cleaning compound	91664589	05/14/92	WAD058367152
214		D002		1	DM	436	P		436				Aircraft cleaning compound	91663310	03/13/92	WAD058367152
214		D002		2	DF	70	G	0.80	467				Aircraft cleaning compound	90988708	06/11/92	CAT080010101
214		D002		1	DM	618	P		618				Aircraft cleaning compound	91663521	04/09/92	WAD058367152
214		D002		2	DM	684	P		684				Aircraft cleaning compound	91661255	09/23/92	WAD058367152
214		D002		3	DM	778	P		778				Aircraft cleaning compound	91504774	06/17/92	WAD058367152
214		D002		2	DM	1182	P		1182				Aircraft cleaning compound	91663571	04/17/92	WAD058367152
214		D002		3	DM	1274	P		1274				Aircraft cleaning compound	91661461	10/07/92	WAD058367152
214		D002		19	DM	5712	P		5712				Aircraft cleaning compound	91663459	03/31/92	WAD058367152
214		D002		1	DM	404	P		404				Aircraft cleaning compound	91661259	09/23/92	WAD058367152
214		D001	F003 F005 D035	1	DM	78	P		78				Aircraft paint thinner	91661255	09/23/92	WAD058367152
214		D001	F003 F005 D035	1	DM	80	P		80				Aircraft paint thinner	91665055	02/18/92	WAD058367152
214		D001	F003 F005 D035	1	DM	82	P		82				Aircraft paint thinner	91663317	03/26/92	WAD058367152
214		D001	D035 F003 F005	4	DM	1808	P		1808				Aircraft paint thinner	91663571	04/17/92	WAD058367152
214		D001	D007	1	DM	98	P		98				Airfield/traffic paint	91504774	06/17/92	WAD058367152
214		D001	D035	1	DM	506	P		506				Aliphatic isocyanate resin-ethyl acetate, MEK	91663521	04/09/92	WAD058367152
214		D026	F004	1	DM	230	P		230				Cleaner/degreaser w/ cresols, kerosene	91663380	03/26/92	WAD058367152
214		D026	F004	1	DM	364	P		364				Cleaner/degreaser w/ cresols, kerosene	91661312	09/30/92	WAD058367152
214		D026	F004	1	DM	390	P		390				Cleaner/degreaser w/ cresols, kerosene	91505130	07/28/92	WAD058367152
214		D026	F004	2	DM	953	P		953				Cleaner/degreaser w/ cresols, kerosene	91661259	09/23/92	WAD058367152
214		D023	F003 F004	1	DM	83	P		83				Cleaning compound w/ acetone, orthocresol	91663347	03/20/92	WAD058367152
214		D023	F003 F004	1	DM	540	P		540				Cleaning compound w/ acetone, orthocresol	91661010	09/01/92	WAD058367152
214		D023	F003 F004	2	DM	640	P		640				Cleaning compound w/ acetone, orthocresol	91661243	09/25/92	WAD058367152
214		D023	F003 F004	2	DM	719	P		719				Cleaning compound w/ acetone, orthocresol	91663521	04/09/92	WAD058367152
214		D023	F003 F004	3	DM	1274	P		1274				Cleaning compound w/ acetone, orthocresol	91663571	04/17/92	WAD058367152
214		D001	F003	1	DM	86	P		86				Degreaser with ethanol and xylene	91661259	09/23/92	WAD058367152
214		F002		1	DM	170	P		170				Hydraulic fluid w/ freon	91661255	09/23/92	WAD058367152
214		F002		2	DM	239	P		239				Hydraulic fluid w/ freon	92786074	11/19/92	WAD058367152
214		F002		1	DM	242	P		242				Hydraulic fluid w/ freon	91505130	07/28/92	WAD058367152
214		F002		1	DM	248	P		248				Hydraulic fluid w/ freon	91664427	07/27/92	WAD058367152
214		F002		1	DM	308	P		308				Hydraulic fluid w/ freon	91661312	09/30/92	WAD058367152
214		F002		2	DM	398	P		398				Hydraulic fluid w/ freon	91660969	08/21/92	WAD058367152
214		F002		2	DM	670	P		670				Hydraulic fluid w/ freon	92786074	11/19/92	WAD058367152
214		F002		2	DM	794	P		794				Hydraulic fluid w/ freon	91504763	06/08/92	WAD058367152
214		F002		4	DM	840	P		840				Hydraulic fluid w/ freon	91663113	11/06/92	WAD058367152
214		F002		3	DM	1112	P		1112				Hydraulic fluid w/ freon	91661461	10/07/92	WAD058367152

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				No.	Type											
214		F002		3	DM	1248	P		1248				Hydraulic fluid w/ freon	91663317	03/26/92	WAD058367152
214		F002		4	DM	1667	P		1667				Hydraulic fluid w/ freon	91663258	03/11/92	WAD058367152
214		F002		7	DM	2840	P		2840				Hydraulic fluid w/ freon	91663521	04/09/92	WAD058367152
214		D001		1	DM	100	P		100				Inspection penetrant w/ isopropanol	91505130	07/28/92	WAD058367152
214		D001		1	DM	192	P		192				Inspection penetrant w/ isopropanol	91661243	09/25/92	WAD058367152
214		D001		1	DM	445	P		445				Inspection penetrant w/ isopropanol	92786074	11/19/92	WAD058367152
214		D001		2	DM	776	P		776				Inspection penetrant w/ mineral spirits	91663571	04/17/92	WAD058367152
214		NR		1	DM	241	P		241				Nonflammable aerosol labpack	92786108	12/02/92	WAD058367152
214		NR		1	DM	230	P		230				Nonflammable labpack (barium)	92786074	11/19/92	WAD058367152
214		D001	F003 F005 D035	1	DM	328	P		328				Paint stripper	91661461	10/07/92	WAD058367152
214		D002	D007 D039	1	DM	702	P		702				Paint stripper with methylene chloride, sodium chromate	91665087	02/25/92	WAD058367152
214		D001	D006 D007 D008 D035	1	DM	82	P		82				Paint thinner	91664427	07/27/92	WAD058367152
214		D001	D006 D007 D008 D035	1	DM	292	P		292				Paint thinner	91663310	03/13/92	WAD058367152
214		D001	F003 F005	1	DM	58	P		58				Paint thinner, toluene, xylene, acetone, mineral spirits	91663347	03/20/92	WAD058367152
214		D001	F003 F005	1	DM	78	P		78				Paint thinner, toluene, xylene, acetone, mineral spirits	91504763	06/08/92	WAD058367152
214		D001	F003 F005	1	DM	144	P		144				Paint thinner, toluene, xylene, acetone, mineral spirits	91663113	11/06/92	WAD058367152
214		D001	F003 F005	1	DM	206	P		206				Paint thinner, toluene, xylene, acetone, mineral spirits	91664427	07/27/92	WAD058367152
214		D001	F003 F005	1	DM	390	P		390				Paint thinner, toluene, xylene, acetone, mineral spirits	91663310	03/13/92	WAD058367152
214		D001	F003 F005	2	DM	573	P		573				Paint thinner, toluene, xylene, acetone, mineral spirits	91663380	03/26/92	WAD058367152
214		D001	F005 D035	1	DM	63	P		63				Paint with toluene, MEK	91661243	09/25/92	WAD058367152
214		D001	F002 F005 D007 D035	1	DM	466	P		466				Paint/stripper/water, methylene chloride, chromium, MEK	91661259	09/23/92	WAD058367152
214		D001	D035 F001 F005	4	DM	200	G	0.80	1334				Toluene, xylene, MEK, acetone	91788218	01/31/92	CAT080010101
214		NR		4	DM	4704	P		4704				Turpentine	91663571	04/17/92	WAD058367152
214	291 331	D007		6	DM	300	G	0.80	2002				Waste enamel/epoxy/acrylic paint, thinner, toluene, xylene	91788217	01/31/92	CAT080010101
214	291 331	D001		1	DM	10	G	0.80	67				Waste paint (consolidated paint sludges)	92471020	10/09/92	CAT080010101
214	291 343	D001		3	DM	165	G	0.80	1101				Waste paint, thinners, sludge	90988705	06/11/92	CAT080010101
214	223	D001	D035 F003 F005	1	TT	823	G	0.80	5191	57009	1.122%		Waste solvents (toluene, xylene) and petroleum distillates	89588717	09/01/92	CAD089446710
221		NR		2	DM	414	P		414			X	Aircraft grease	91661461	10/07/92	WAD058367152
221		NR		1	DF	55	G	0.80	367			X	Engine oil, lube oil, hydraulic fluid	90988708	06/11/92	CAT080010101
221		NR		1	TT	24970	P		24970			X	Engine oil, lube oil, hydraulic fluid	90420187	12/16/92	CAT080011059
221		NR		2	DM	426	P		426			X	Hydraulic fluid	92786074	11/19/92	WAD058367152
221		NR		1	DM	530	P		530			X	Hydraulic fluid	91661312	09/30/92	WAD058367152
221		NR		1	DM	636	P		636			X	Hydraulic fluid	92786187	12/02/92	WAD058367152
221		NR		5	DM	2310	P		2310			X	Hydraulic fluid	91661255	09/23/92	WAD058367152
221		NR		1	DM	218	P		218			X	Hydraulic fluid contaminated with water	91661259	09/23/92	WAD058367152
221		NR		5	DM	1936	P		1936			X	Hydraulic fluid contaminated with water	91661243	09/25/92	WAD058367152
221		NR		1	DM	634	P		634			X	Lube oil	91663347	03/20/92	WAD058367152
221		NR		2	DM	271	P		271			X	Lube oil (aircraft engines)	92786074	11/19/92	WAD058367152
221		NR		1	DM	134	P		134			X	Lubricating oil	91665055	02/18/92	WAD058367152
221		NR		1	DM	247	P		247			X	Oil and grease	91665055	02/18/92	WAD058367152
221		NR		1	DM	85	P		85			X	Oil and grease liquid labpack	92786108	12/02/92	WAD058367152
221		D001	F002 D028	1	TP	34060	P		34060			X	Oil contaminated w/ gasoline	91664524	05/12/92	WAD058367152
221		D001	F002 D028	1	TP	38300	P		38300			X	Oil contaminated w/ gasoline	91664522	05/11/92	WAD058367152
221		D001	F002 D028	1	TP	39690	P		39690			X	Oil contaminated w/ gasoline	91664521	05/11/92	WAD058367152
221		D001	F002 D028	1	TP	40610	P		40610			X	Oil contaminated w/ gasoline	91664523	05/11/92	WAD058367152
221		D001	F002 D028	1	TP	42060	P		42060			X	Oil contaminated w/ gasoline	91664525	05/12/92	WAD058367152
221		D001		1	DM	233	P		233			X	Oil contaminated w/ JP-5	91505130	07/28/92	WAD058367152
221		D001		4	DM	321	P		321			X	Oil contaminated w/ JP-5	91661155	09/09/92	WAD058367152
221		D001		1	DM	487	P		487			X	Oil contaminated w/ JP-5	91661259	09/23/92	WAD058367152
221		D001		2	DM	858	P		858			X	Oil contaminated w/ JP-5	91661461	10/07/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
221		NR		2	DM	415	P		415			X	Oil contaminated w/ water	91663347	03/20/92	WAD058367152
221		NR		2	DM	429	P		429			X	Oil contaminated w/ water	91661010	09/01/92	WAD058367152
221		NR		1	DM	592	P		592			X	Oil contaminated w/ water	91663521	04/09/92	WAD058367152
221		NR		2	DM	822	P		822			X	Oil contaminated w/ water	91661243	09/25/92	WAD058367152
221		NR		13	DM	2256	P		2256			X	Oil contaminated w/ water	91661155	09/09/92	WAD058367152
221		NR		7	DM	2369	P		2369			X	Oil contaminated w/ water	91661312	09/30/92	WAD058367152
221		NR		10	DM	3281	P		3281			X	Oil contaminated w/ water	92786224	12/14/92	WAD058367152
221		NR		1	DM	75	P		75			X	Petroleum oil	91663317	03/26/92	WAD058367152
221		NR		2	DM	277	P		277			X	Petroleum oil	91663113	11/06/92	WAD058367152
221		NR		3	DM	1408	P		1408			X	Petroleum oil	91661312	09/30/92	WAD058367152
221		NR		1	DM	62	P		62			X	Petroleum oil and antifreeze	91664641	07/14/92	WAD058367152
221		NR		1	DM	374	P		374			X	Synthetic oil contaminated with aviation fuel	91661461	10/07/92	WAD058367152
221		NR		2	DM	848	P		848			X	Synthetic oil contaminated with aviation fuel	92786074	11/19/92	WAD058367152
221		NR		8	DM	3824	P		3824			X	Synthetic oil contaminated with aviation fuel	91664641	07/14/92	WAD058367152
221		D001	F003 F005	1	DM	114	P		114			X	Waste aviation fuel	91662830	10/14/92	WAD058367152
221		D001		1	TT	6949	G	0.80	46364			X	Waste aviation fuel	90420152	02/20/92	CAD980737076
221		D001		1	TT	7181	G	0.80	47912			X	Waste aviation fuel	90420159	02/21/92	CAD980737076
221		D001		1	DM	145	P		145			X	Waste diesel fuel	91661155	09/09/92	WAD058367152
221		D001		2	DM	332	P		332			X	Waste diesel fuel	92786108	12/02/92	WAD058367152
221		D001		1	DM	388	P		388			X	Waste diesel fuel	91663258	03/11/92	WAD058367152
221		D001		2	DM	480	P		480			X	Waste diesel fuel	91661461	10/07/92	WAD058367152
221		D001		3	DM	404	P		404			X	Waste fuel (JP-5)	91661461	10/07/92	WAD058367152
221		D001		1	TT	6467	G	0.80	43148			X	Waste fuel (JP-5)	90420181	09/18/92	CAD980737076
221		D001		1	TT	6612	G	0.80	44115			X	Waste fuel (JP-5)	90420182	09/30/92	CAD980737076
221		D001		1	TT	6744	G	0.80	44996			X	Waste fuel (JP-5)	90420170	04/17/92	CAD980737076
221		D001		1	TT	7218	G	0.80	48158			X	Waste fuel (JP-5)	90420151	01/02/91	CAD980737076
221		NR		1	TT	270	G	0.80	1801	525186	13.103%	X	Waste motor oil, lube, grease, hyd fluid	91788219	01/31/92	CAT040370645
222		NR		1	DM	107	P		107				Gasoline and water w/ benzene	92786074	11/19/92	WAD058367152
222		D001		2	DM	227	P		227				JP-5 and water, aviation fuel	91663347	03/20/92	WAD058367152
222		D001		1	DM	120	P		120				JP-5 contaminated w/ water, aviation fuel, naphtha	91663347	03/20/92	WAD058367152
222		D001		1	DM	416	P		416				JP-5 contaminated w/ water, aviation fuel, naphtha	91505130	07/28/92	WAD058367152
222		D001		4	DM	865	P		865				JP-5 contaminated with water	91661155	09/09/92	WAD058367152
222		NR		1	DM	148	P		148				Oil sludge with debris	91663459	03/31/92	WAD058367152
222		NR		1	TT	2591	G	1.00	21609				Water (99%) with petroleum products (1%)	92018434	06/24/92	CAT080013352
222		NR		1	TT	4900	G	1.00	40866				Water (99%) with petroleum products (1%)	92018435	06/23/92	CAT080013352
222		NR		2	DM	378	P		378				Water contaminated w/ aviation fuel, oil	91661312	09/30/92	WAD058367152
222		NR		2	DM	902	P		902				Water contaminated w/ aviation fuel, oil	91663571	04/17/92	WAD058367152
222		NR		10	DM	4808	P		4808				Water contaminated w/ aviation fuel, oil	91661255	09/23/92	WAD058367152
222		F001	D039 D040	2	DM	538	P		538				Water contaminated w/ oil	91505131	11/06/92	WAD058367152
222		F001	D039 D040	1	TT	13360	P		13360				Water contaminated w/ oil	91630897	08/27/92	WAD058367152
222		F001	D039 D040	1	TP	36770	P		36770				Water contaminated w/ oil	91662918	10/23/92	WAD058367152
222		F001	D039 D040	1	TT	38930	P		38930				Water contaminated w/ oil	91662911	11/04/92	WAD058367152
222		F001	D039 D040	1	TT	41000	P		41000				Water contaminated w/ oil	91662910	11/04/92	WAD058367152
222		F001	D039 D040	1	TT	45650	P		45650				Water contaminated w/ oil	91505488	08/14/92	WAD058367152
222		F001	D039 D040	1	TT	115400	P		115400				Water contaminated w/ oil	91662920	11/04/92	WAD058367152
222		F001	D039 D040	1	TC	131110	P		131110				Water contaminated w/ oil	91662919	11/04/92	WAD058367152
222		F001	D039 D040	1	TC	136600	P		136600	629804	15.713%		Water contaminated w/ oil	91660807		WAD058367152
223		NR		1	DM	522	P		522				Absorbent with inspection penetrant	92786074	11/19/92	WAD058367152
223		NR		1	DM	75	P		75				Diesel spill cleanup	91505522	06/08/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
223		NR		1	DM	700	P		700				Diesel spill cleanup	91663240	03/11/92	WAD058367152
223		NR		5	DM	4010	P		4010				Diesel spill cleanup	91663459	03/31/92	WAD058367152
223		D001		1	DM	266	P		266				Diesel, tar and water	92786074	11/19/92	WAD058367152
223		D001		3	DM	621	P		621				Diesel, tar and water	91661243	09/25/92	WAD058367152
223		NR		1	DM	30	P		30			X	Grease	91664925	02/19/92	WAD058367152
223		NR		1	DM	31	P		31			X	Grease	92786108	12/02/92	WAD058367152
223		NR		1	DM	32	P		32			X	Grease	91664684	06/04/92	WAD058367152
223		NR		1	DM	60	P		60			X	Grease	91665055	02/18/92	WAD058367152
223		NR		1	DM	77	P		77			X	Grease	91661155	09/09/92	WAD058367152
223		NR		1	DM	112	P		112			X	Grease	92786074	11/19/92	WAD058367152
223		NR		1	DM	158	P		158			X	Grease	91663573	04/17/92	WAD058367152
223		NR		1	DM	188	P		188			X	Grease	91663521	04/09/92	WAD058367152
223		NR		1	DM	260	P		260			X	Grease	91663258	03/11/92	WAD058367152
223		NR		2	DM	308	P		308			X	Grease	91661259	09/23/92	WAD058367152
223		NR		1	DM	376	P		376			X	Grease	91664427	07/27/92	WAD058367152
223		NR		2	DM	406	P		406			X	Grease	91664589	05/14/92	WAD058367152
223		NR		1	DM	235	P		235			X	Oil	92786187	12/02/92	WAD058367152
223		NR		1	DM	361	P		361			X	Oil	92786108	12/02/92	WAD058367152
223		NR		2	DM	548	P		548			X	Oil	91661255	09/23/92	WAD058367152
223		NR		5	DM	1455	P		1455			X	Oil	91661243	09/25/92	WAD058367152
223		NR		5	DM	1764	P		1764			X	Oil	91661461	10/07/92	WAD058367152
223		NR		14	DM	3557	P		3557			X	Oil	91661259	09/23/92	WAD058367152
223		NR		13	DM	4294	P		4294			X	Oil	92786074	11/19/92	WAD058367152
223		NR		1	DM	155	P		155			X	Oil	91664641	07/14/92	WAD058367152
223		D018		1	DM	488	P		488			X	Oil and fuel	91661461	10/07/92	WAD058367152
223		D018		1	TT	4928	G	0.80	32880			X	Oil and fuel	90762383	04/22/92	CAD981458466
223		D018		1	TT	5367	G	0.80	35809			X	Oil and fuel	90762382	04/22/92	CAD981458466
223		D018		1	TT	5519	G	0.80	36823			X	Oil and fuel	90762381	04/22/92	CAD981458466
223		D018		1	TT	5896	G	0.80	39271			X	Oil and fuel	90762385	04/22/92	CAD981458466
223		NR		1	DM	116	P		116				Oil and fuel filters	91661461	10/07/92	WAD058367152
223		NR		2	DM	196	P		196				Oil and fuel filters	92786108	12/02/92	WAD058367152
223		NR		1	DM	206	P		206				Oil and fuel filters	91664641	07/14/92	WAD058367152
223		NR		2	DM	301	P		301				Oil and fuel filters	91663113	11/06/92	WAD058367152
223		NR		2	DM	334	P		334				Oil and fuel filters	91661255	09/23/92	WAD058367152
223		NR		3	DM	370	P		370				Oil and fuel filters	91661243	09/25/92	WAD058367152
223		NR		3	DM	555	P		555				Oil and fuel filters	91663317	03/26/92	WAD058367152
223		NR		3	DM	567	P		567				Oil and fuel filters	91661010	09/01/92	WAD058367152
223		NR		2	DM	610	P		610				Oil and fuel filters	92786573	12/29/92	IDF073114654
223		NR		4	DM	652	P		652				Oil and fuel filters	91663573	04/17/92	WAD058367152
223		NR		4	DM	686	P		686				Oil and fuel filters	92786074	11/19/92	WAD058367152
223		NR		4	DM	696	P		696				Oil and fuel filters	91663521	04/09/92	WAD058367152
223		NR		4	DM	818	P		818				Oil and fuel filters	91663113	11/06/92	WAD058367152
223		NR		6	DM	860	P		860				Oil and fuel filters	91664589	05/14/92	WAD058367152
223		NR		2	DM	913	P		913				Oil and fuel filters	91664427	07/27/92	WAD058367152
223		NR		2	DM	1041	P		1041				Oil and fuel filters	91663347	03/20/92	WAD058367152
223		NR		8	DM	1141	P		1141				Oil and fuel filters	91505130	07/28/92	WAD058367152
223		NR		5	DM	1174	P		1174				Oil and fuel filters	92786224	12/14/92	WAD058367152
223		NR		4	DM	1252	P		1252				Oil and fuel filters	91504763	06/08/92	WAD058367152
223		NR		6	DM	1966	P		1966				Oil and fuel filters	91664684	06/04/92	WAD058367152
223		NR		8	DM	2422	P		2422				Oil and fuel filters	91663258	03/11/92	WAD058367152
223		NR		14	DM	3045	P		3045				Oil and fuel filters	91661259	09/23/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
223		D007		1	TT	15770	P		15770				Oil and water with chromium	91505430	12/30/92	CAD981458466
223		D007		1	TT	32005	P		32005				Oil and water with chromium	92786610	12/30/92	CAD981458466
223		D007		1	TT	32350	P		32350				Oil and water with chromium	92786603	12/29/92	CAD981458466
223		D007		1	TT	32690	P		32690				Oil and water with chromium	92786608	12/29/92	CAD981458466
223		D007		1	TT	33590	P		33590				Oil and water with chromium	92786594	12/29/92	CAD981458466
223		D007		1	TT	34040	P		34040				Oil and water with chromium	92786604	12/29/92	CAD981458466
223		D007		1	TT	34270	P		34270				Oil and water with chromium	92786599	12/29/92	CAD981458466
223		D007		1	TT	35580	P		35580				Oil and water with chromium	92786607	12/29/92	CAD981458466
223		D007		1	TT	35660	P		35660				Oil and water with chromium	92786605	12/29/92	CAD981458466
223		D007		1	TT	36100	P		36100				Oil and water with chromium	92786606	12/29/92	CAD981458466
223		D007		1	TT	36250	P		36250				Oil and water with chromium	92786612	12/30/92	CAD981458466
223		NR		1	DM	147	P		147				Oil in floor sweep, absorbent	91661155	09/09/92	WAD058367152
223		NR		1	DM	392	P		392				Oil in floor sweep, absorbent	91664925	02/19/92	WAD058367152
223		NR		2	DM	584	P		584				Oil in floor sweep, absorbent	91661461	10/07/92	WAD058367152
223		NR		3	DM	1422	P		1422				Oil in floor sweep, absorbent	92786402	12/14/92	IDD073114654
223		NR		4	DM	1775	P		1775				Oil in floor sweep, absorbent	92786573	12/29/92	IDD073114654
223		NR		6	DM	2126	P		2126				Oil in floor sweep, absorbent	91661255	09/23/92	WAD058367152
223		NR		8	DM	2206	P		2206				Oil in floor sweep, absorbent	92786108	12/02/92	WAD058367152
223		NR		8	DM	2514	P		2514				Oil in floor sweep, absorbent	91661010	09/01/92	WAD058367152
223		NR		7	DM	2817	P		2817				Oil in floor sweep, absorbent	91661243	09/25/92	WAD058367152
223		NR		8	DM	3618	P		3618				Oil in floor sweep, absorbent	91664427	07/27/92	WAD058367152
223		NR		12	DM	4642	P		4642				Oil in floor sweep, absorbent	91664589	05/14/92	WAD058367152
223		NR		15	DM	5216	P		5216				Oil in floor sweep, absorbent	91661259	09/23/92	WAD058367152
223		NR		22	DM	8757	P		8757				Oil in floor sweep, absorbent	91663571	04/17/92	WAD058367152
223		D039	D040 F001	1	TP	28130	P		28130				Oil w/ TCA and TCE	91662961	10/23/92	WAD058367152
223		D039	D040 F001	1	TP	28470	P		28470				Oil w/ TCA and TCE	91662960	10/23/92	WAD058367152
223		D039	D040 F001	1	TT	109480	P		109480				Oil w/ TCA and TCE	91662971	11/04/92	WAD058367152
223		D039	D040 F001	1	TC	145980	P		145980				Oil w/ TCA and TCE	91662959	10/22/92	WAD058367152
223		F001	D039 D040	1	TT	30220	P		30220				Oil/water w/ TCA and TCE	91663291	10/21/92	WAD058367152
223		F001	D039 D040	1	TP	32500	P		32500				Oil/water w/ TCA and TCE	91662908	10/23/92	WAD058367152
223		F001	D039 D040	1	TC	158970	P		158970				Oil/water w/ TCA and TCE	91662901	10/22/92	WAD058367152
223		F001	D039 D040	1	TC	165500	P		165500				Oil/water w/ TCA and TCE	91662967	10/22/92	WAD058367152
223	512	NR		2	CF	2750	P		2750			X	Oily soil and absorbent, empty containers	91788386	06/11/92	CAT000646117
223		D001	F003 F005	1	DM	400	P		400				Petroleum oil w/ solvents	91664684	06/04/92	WAD058367152
223		F002	D018	1	TT	41950	P		41950				Petroleum products w/ benzene	91662858	10/16/92	WAD058367152
223		F002	D018	1	TT	43130	P		43130				Petroleum products w/ benzene	91662851	10/15/92	WAD058367152
223		F002	D018	1	TT	43470	P		43470				Petroleum products w/ benzene	91662856	10/15/92	WAD058367152
223		F002	D018	1	TT	46430	P		46430				Petroleum products w/ benzene	91662853	10/15/92	WAD058367152
223		NR		1	DM	122	P		122				Rags w/ ethylene glycol	91665087	02/25/92	WAD058367152
223		NR		18	DM	8602	P		8602				Rags w/ oil	91665087	02/25/92	WAD058367152
223		NR		1	DM	90	P		90				Rags/absorbent w/ oil	91661461	10/07/92	WAD058367152
223		NR		1	DF	140	P		140				Rags/absorbent w/ oil	91664641	07/14/92	WAD058367152
223		NR		1	DF	180	P		180				Rags/absorbent w/ oil	91664684	06/04/92	WAD058367152
223		NR		1	DM	207	P		207				Rags/absorbent w/ oil	91664925	02/19/92	WAD058367152
223		NR		1	DM	230	P		230				Rags/absorbent w/ oil	91663258	03/11/92	WAD058367152
223		NR		2	DM	366	P		366				Rags/absorbent w/ oil	91664684	06/04/92	WAD058367152
223		NR		3	DM	368	P		368				Rags/absorbent w/ oil	91664427	07/27/92	WAD058367152
223		NR		4	DM	555	P		555				Rags/absorbent w/ oil	91661259	09/23/92	WAD058367152
223		NR		4	DM	790	P		790				Rags/absorbent w/ oil	91505130	07/28/92	WAD058367152
223		NR		5	DM	849	P		849				Rags/absorbent w/ oil	91661155	09/09/92	WAD058367152
223		NR		6	DM	919	P		919				Rags/absorbent w/ oil	91664641	07/14/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
223		NR		5	DM	927	P		927				Rags/absorbent w/ oil	92786573	12/29/92	IDD073114654
223		NR		4	DM	971	P		971				Rags/absorbent w/ oil	91661243	09/25/92	WAD058367152
223		NR		8	DM	1105	P		1105				Rags/absorbent w/ oil	91661255	09/23/92	WAD058367152
223		NR		9	DM	1524	P		1524				Rags/absorbent w/ oil	92786402	12/14/92	IDD073114654
223		NR		10	DM	1735	P		1735				Rags/absorbent w/ oil	91660969	08/21/92	WAD058367152
223		NR		9	DM	1758	P		1758				Rags/absorbent w/ oil	91663113	11/06/92	WAD058367152
223		NR		11	DM	1819	P		1819				Rags/absorbent w/ oil	91661461	10/07/92	WAD058367152
223		NR		19	DM	2953	P		2953				Rags/absorbent w/ oil	92786108	12/02/92	WAD058367152
223		NR		18	DM	3086	P		3086				Rags/absorbent w/ oil	91661259	09/23/92	WAD058367152
223		NR		21	DM	3371	P		3371				Rags/absorbent w/ oil	91661010	09/01/92	WAD058367152
223		NR		12	DM	3452	P		3452				Rags/absorbent w/ oil	92786187	12/02/92	WAD058367152
223		NR		1	DM	100	P		100				Rags/absorbent w/ petroleum products	91664641	07/14/92	WAD058367152
223		NR		1	DM	108	P		108				Rags/absorbent w/ petroleum products	91660969	08/21/92	WAD058367152
223		NR		1	DM	150	P		150				Rags/absorbent w/ petroleum products	91663258	03/11/92	WAD058367152
223		NR		2	DM	266	P		266				Rags/absorbent w/ petroleum products	91614833	07/14/92	WAD058367152
223		NR		2	DM	528	P		528				Rags/absorbent w/ petroleum products	91663380	03/26/92	WAD058367152
223		NR		7	DM	1246	P		1246				Rags/absorbent w/ petroleum products	92786074	11/19/92	WAD058367152
223		NR		8	DM	1344	P		1344				Rags/absorbent w/ petroleum products	91664427	07/27/92	WAD058367152
223		NR		9	DM	1736	P		1736				Rags/absorbent w/ petroleum products	91664684	06/04/92	WAD058367152
223		NR		10	DM	1757	P		1757				Rags/absorbent w/ petroleum products	91663310	03/13/92	WAD058367152
223		NR		15	DM	2318	P		2318				Rags/absorbent w/ petroleum products	91504773	06/10/92	WAD058367152
223		NR		11	DM	4194	P		4194				Rags/absorbent w/ petroleum products	91663459	03/31/92	WAD058367152
223		NR		17	DM	5836	P		5836				Rags/absorbent w/ petroleum products	91663521	04/09/92	WAD058367152
223		NR		26	DM	6353	P		6353				Rags/absorbent w/ petroleum products	91663521	04/09/92	WAD058367152
223		NR		12	DM	22410	P		22410				Rags/absorbent w/ petroleum products	91663347	03/20/92	WAD058367152
223		NR		1	DM	133	P		133			X	Soil contaminated w/ oil	92786074	11/19/92	WAD058367152
223		NR		1	DM	155	P		155			X	Soil contaminated w/ oil	91664427	07/27/92	WAD058367152
223		NR		1	DM	414	P		414			X	Soil contaminated w/ oil	91505130	07/28/92	WAD058367152
223		NR		1	DM	517	P		517			X	Soil contaminated w/ oil	91661243	09/25/92	WAD058367152
223		NR		2	DM	801	P		801			X	Soil contaminated w/ oil	91661155	09/09/92	WAD058367152
223		NR		1	DM	1044	P		1044			X	Soil contaminated w/ oil	91661461	10/07/92	WAD058367152
223		NR		2	DM	1130	P		1130			X	Soil contaminated w/ oil	91663347	03/20/92	WAD058367152
223		NR		2	DM	2045	P		2045			X	Soil contaminated w/ oil	91663573	04/17/92	WAD058367152
223		NR		5	DM	2370	P		2370			X	Soil contaminated w/ oil	91664589	05/14/92	WAD058367152
223		NR		3	DM	2704	P		2704			X	Soil contaminated w/ oil	91663521	04/09/92	WAD058367152
223		NR		10	DM	4770	P		4770			X	Soil contaminated w/ oil	91788386	06/11/92	CAT000646117
223		NR		9	DM	5733	P		5733			X	Soil contaminated w/ oil	91661259	09/23/92	WAD058367152
223	512 513	NR		1	DM	302	P		302			X	Soil contaminated w/ oil, absorbent, empty containers	91788386	06/11/92	CAT000646117
223		NR		4	DM	3298	P		3298			X	Soil contaminated w/ oil, petroleum hydrocarbons	91664684	06/04/92	WAD058367152
223		NR		1	DM	50	P		50			X	Synthetic oil	91504774	06/17/92	WAD058367152
223		NR		1	DM	169	P		169			X	Synthetic oil	91665055	02/18/92	WAD058367152
223		NR		1	DM	195	P		195			X	Synthetic oil	91505130	07/28/92	WAD058367152
223		NR		1	DM	196	P		196			X	Synthetic oil	91661010	09/01/92	WAD058367152
223		NR		2	DM	228	P		228			X	Synthetic oil	92786108	12/02/92	WAD058367152
223		NR		2	DM	324	P		324			X	Synthetic oil	91663347	03/20/92	WAD058367152
223		NR		1	DM	348	P		348			X	Synthetic oil	91663113	11/06/92	WAD058367152
223		NR		1	DM	364	P		364			X	Synthetic oil	91663459	03/31/92	WAD058367152
223		NR		1	DM	443	P		443			X	Synthetic oil	91663258	03/11/92	WAD058367152
223		NR		2	DM	536	P		536			X	Synthetic oil	91661010	09/01/92	WAD058367152
223		NR		5	DM	712	P		712			X	Synthetic oil	92786074	11/19/92	WAD058367152
223		NR		2	DM	719	P		719			X	Synthetic oil	92786108	12/02/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
223		NR		3	DM	720	P		720			X	Synthetic oil	91661155	09/09/92	WAD058367152
223		NR		2	DM	868	P		868			X	Synthetic oil	91661255	09/23/92	WAD058367152
223		NR		5	DM	976	P		976			X	Synthetic oil	91663113	11/06/92	WAD058367152
223		NR		5	DM	1168	P		1168			X	Synthetic oil	91660969	08/21/92	WAD058367152
223		NR		3	DM	1200	P		1200			X	Synthetic oil	91661312	09/30/92	WAD058367152
223		NR		4	DM	1218	P		1218			X	Synthetic oil	91663310	03/13/92	WAD058367152
223		NR		4	DM	1635	P		1635			X	Synthetic oil	91661259	09/23/92	WAD058367152
223		NR		7	DM	1758	P		1758			X	Synthetic oil	91505130	07/28/92	WAD058367152
223		NR		7	DM	1931	P		1931			X	Synthetic oil	91663380	03/26/92	WAD058367152
223		NR		10	DM	3749	P		3749			X	Synthetic oil	91664427	07/27/92	WAD058367152
223		NR		9	DM	3887	P		3887			X	Synthetic oil	91661243	09/25/92	WAD058367152
223		NR		12	DM	4591	P		4591			X	Synthetic oil	91663258	03/11/92	WAD058367152
223		NR		21	DM	7762	P		7762			X	Synthetic oil	91614833	07/14/92	WAD058367152
223		NR		25	DM	8697	P		8697			X	Synthetic oil	91664641	07/14/92	WAD058367152
223		NR		27	DM	11615	P		11615			X	Synthetic oil	91661461	10/07/92	WAD058367152
223		F001	D039 D040	1	TC	98470	P		98470	1722104	42.965%		Water contaminated w/ TCA and TCE	91662902	11/04/92	WAD058367152
232		NR		2	DM	74	P		74	74	0.002%	X	Prometon herbicide	91664925	02/19/92	WAD058367152
281		D001		1	DM	40	P		40				Adhesive	91665055	02/18/92	WAD058367152
281		NR		2	DM	141	P		141				Adhesive base compound with toluene	92786074	11/19/92	WAD058367152
281		D001		1	DM	72	P		72				Adhesive lab pack	91665055	02/18/92	WAD058367152
281		D001		1	DM	266	P		266				Adhesive lab pack	91661461	10/07/92	WAD058367152
281		D001	F003	1	DM	136	P		136				Adhesive primer	91664589	05/14/92	WAD058367152
281		D001		3	DM	342	P		342				Aerosol adhesive	91663347	03/20/92	WAD058367152
281		D001		1	DM	44	P		44				Sealant with manganese dioxide	91663143	11/06/92	WAD058367152
281		D001		1	DM	19	P		19				Sealing compound	92786108	12/02/92	WAD058367152
281		NR		1	DM	69	P		69				Sealing compound	92786108	12/02/92	WAD058367152
281	551	NR		1	DM	250	P		250				Sealing compound	91788155	01/22/92	CAT080010101
281		D001	D008	1	DM	85	P		85				Sealing compound - waste lead dioxide	91663258	03/11/92	WAD058367152
281		D001		1	DM	39	P		39	1503	0.037%		Sealing compound with manganese dioxide	91661600	11/06/92	WAD058367152
331		NR		1	DM	25	G	1.00	209				Aqueous firefighting foam and water	90988708	06/11/92	CAT080010101
331		D001		1	DM	30	P		30				Blue layout dye w/ xylene, isopropanol	91665055	02/18/92	WAD058367152
331		NR		2	DM	105	G	0.80	701				Carbon removing compound	90988705	06/11/92	CAT080010101
331		D007		1	DM	350	P		350				Cleaner w/ sodium chromate	91788249	03/30/92	CAT080010101
331		D007		1	DM	400	P		400				Cleaner w/ sodium chromate	91788249	03/30/92	CAT080010101
331		D005		2	DM	138	P		138				Corrosion preventative. Trichloroethylene	91661259	09/23/92	WAD058367152
331		D001		2	DM	179	P		179				Decon kits w/ ethanol	91661461	10/07/92	WAD058367152
331		NR		1	DF	15	G	0.80	100				Detergent, general purpose	91788746	03/30/92	CAT080010101
331		NR		3	DM	165	P		165				Detergent, general purpose	91788249	03/30/92	CAT080010101
331	551	D001		2	DM	400	P		400				Diethylene triamine / epoxy resin	91788227	01/22/92	CAT080010101
331		NR		1	DM	55	G	0.80	367				Emulsifier	89588664	07/07/92	CAT080010101
331	551	NR		2	DM	15	G	0.80	100				Freon / methylene bisphenyl isocyanate	91788227	01/22/92	CAT080010101
331		NR		2	DM	80	G	0.80	534				Grease and polyvinyl polymer	91788263	02/26/92	CAT080010101
331		D001	D018	2	DF	275	P		275				Lab pack - waste liquid (epoxy polymer, toluene, acetone)	90988752	07/09/92	CAT080010101
331		D001	D018 D035	1	DF	150	P		150				Lab pack with epoxy adhesives and sealing compound	90988746	07/07/92	CAT080010101
331		NR		1	DF	20	P		20				Lab pack with phenolphthalein, boric acid	90988746	07/07/92	CAT080010101
331		D001	D007 D035	1	DF	200	P		200				Lab pack with toluene, MEK, adhesives	90988746	07/07/92	CAT080010101
331	551	D009		1	DM	7	G	0.80	47				Lab pack with waste poison (phenylmercury acetate)	91788263	02/26/92	CAT080010101
331		D001	D035	1	DM	50	G	0.80	334				MEK, aliphatic polyisocyanate	91788217	01/31/92	CAT080010101

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
331		D001	D006 D007 D008 D035	1	DM	128	P		128				Miscellaneous aerosol paints	91663113	11/06/92	WAD058367152
331		D001	D006 D007 D008 D035	1	DM	130	P		130				Miscellaneous aerosol paints	91661312	09/30/92	WAD058367152
331		D001	D006 D007 D008 D035	3	DM	232	P		232				Miscellaneous aerosol paints	91661461	10/07/92	WAD058367152
331		D001	D006 D007 D008 D035	1	DM	238	P		238				Miscellaneous aerosol paints	91661010	09/01/92	WAD058367152
331		D001	D006 D007 D008 D035	3	DM	304	P		304				Miscellaneous aerosol paints	91661243	09/25/92	WAD058367152
331		D001	D006 D007 D008 D035	3	DM	324	P		324				Miscellaneous aerosol paints	91663258	03/11/92	WAD058367152
331		D001	D006 D007 D008 D035	5	DM	351	P		351				Miscellaneous aerosol paints	91664427	07/27/92	WAD058367152
331		D001	D006 D007 D008 D035	6	DM	501	P		501				Miscellaneous aerosol paints	91661259	09/23/92	WAD058367152
331	551	NR		2	DM	450	P		450				Petroleum distillates	91788155	01/22/92	CAT080010101
331		NR		2	DM	1000	P		1000				Polysulfide rubber	89588674	07/07/92	UTD991301748
331		D001	D035	1	DM	166	P		166				Polyurethane coating	91664641	07/14/92	WAD058367152
331		D001		1	DM	408	P		408				RTV primcoat	91664684	06/04/92	WAD058367152
331	551	D001	D002	1	DF	6	G	0.80	40				Toluene, xylene, petroleum distillates	91788227	01/22/92	CAT080010101
331	551	D001		1	DM	200	P		200				Toluene, xylene, petroleum distillates	91788227	01/22/92	CAT080010101
331	551	D001		3	DM	650	P		650				Toluene, xylene, petroleum distillates	91788155	01/22/92	CAT080010101
331		D002		1	DM	414	P		414				Waste corrosive solids (calcium hydroxide)	91661312	09/30/92	WAD058367152
331		NR		1	DM	538	P		538				Waste diphenylmethane-4,4-diisocyanate	91664684	06/04/92	WAD058367152
331		D001	D005	1	DM	218	P		218				Waste paint	91664684	06/04/92	WAD058367152
331	741	D001	D005 D040	1	DM	50	G	0.80	334				Waste paint, thinners, toluene, xylene	90988705	06/11/92	CAT080010101
331	741	D001	D005 D040	1	DM	55	G	0.80	367	11690	0.292%		Waste paint, thinners, toluene, xylene	90988705	06/11/92	CAT080010101
343		D001		1	DM	520	P		520				Absorbent w/ sodium hydroxide	91663571	04/17/92	WAD058367152
343		D001		2	DM	617	P		617				Absorbent with fuel	91661461	10/07/92	WAD058367152
343		NR		1	DM	36	P		36				Aerosol cleaning compound w/ freon	91660969	08/21/92	WAD058367152
343		NR		1	DM	44	P		44				Aerosol cleaning compound w/ freon	91661312	09/30/92	WAD058367152
343		NR		1	DM	130	P		130				Aircraft cleaner	91664427	07/27/92	WAD058367152
343		D002		10	DM	3704	P		3704				Aircraft cleaner	91663571	04/17/92	WAD058367152
343		D001	D018	1	DM	400	P		400				Asphalt protective roof coating	92786074	11/19/92	WAD058367152
343		D001		1	DM	80	P		80				Combustible liquid labpack	91665055	02/18/92	WAD058367152
343		D001		1	DM	296	P		296				Combustible liquid labpack	91665055	02/18/92	WAD058367152
343		D001		1	DM	309	P		309				Combustible liquid labpack	91665055	02/18/92	WAD058367152
343		D001		1	DM	476	P		476				Combustible liquid labpack	91665055	02/18/92	WAD058367152
343		D001	D035 F003 F005	1	DM	560	P		560				Diesel fuel with xylene, toluene, MEK	91661243	09/25/92	WAD058367152
343		D001		1	DM	56	P		56				Enamel paint w/ mineral spirits	91504774	06/17/92	WAD058367152
343		D001		1	DM	82	P		82				Enamel paint w/ mineral spirits	91661259	09/23/92	WAD058367152
343		D001		1	DM	101	P		101				Enamel paint w/ mineral spirits	91661259	09/23/92	WAD058367152
343		D001		1	DM	141	P		141				Enamel paint w/ mineral spirits	91663380	03/26/92	WAD058367152
343		D001		1	DM	170	P		170				Enamel paint w/ mineral spirits	91663459	03/31/92	WAD058367152
343		D001		1	DM	192	P		192				Enamel paint w/ mineral spirits	91663521	04/09/92	WAD058367152
343		D001		1	DM	353	P		353				Enamel paint w/ mineral spirits	91665055	02/18/92	WAD058367152
343		D001		1	DM	476	P		476				Enamel paint w/ mineral spirits	91665055	02/18/92	WAD058367152
343		D001		2	DM	504	P		504				Enamel paint w/ mineral spirits	91664589	05/14/92	WAD058367152
343		D001	D007	3	DM	515	P		515				Enamel paint w/ mineral spirits	91661010	09/01/92	WAD058367152
343		D001		3	DM	566	P		566				Enamel paint w/ mineral spirits	91663310	03/13/92	WAD058367152
343		D001		4	DM	628	P		628				Enamel paint w/ mineral spirits	91663347	03/20/92	WAD058367152
343		D001		3	DM	642	P		642				Enamel paint w/ mineral spirits	91663573	04/17/92	WAD058367152
343		D001	D007	1	DM	70	P		70				Enamel paint w/ mineral spirits, chrome	92786224	12/14/92	WAD058367152
343		D001	D007	1	DM	86	P		86				Enamel paint w/ mineral spirits, chrome	91663347	03/20/92	WAD058367152
343		NR		1	DM	199	P		199				Ethylene glycol and petroleum products	91661010	09/01/92	WAD058367152
343		NR		2	DM	942	P		942				Ethylene glycol and petroleum products	91663347	03/20/92	WAD058367152
343		NR		3	DM	1588	P		1588				Ethylene glycol and petroleum products	91663521	04/09/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
343		NR		1	DM	86	P		86				Ethylene glycol and petroleum products	91663571	04/17/92	WAD058367152
343		D001		1	DM	179	P		179				Flammable aerosol labpack	91665055	02/18/92	WAD058367152
343		D001		1	DM	264	P		264				Flammable aerosol labpack	92786224	12/14/92	WAD058367152
343		D001		1	DM	398	P		398				Flammable aerosol labpack	92786108	12/02/92	WAD058367152
343		D001		1	DM	113	P		113				Flammable aerosol labpack (propane, butane)	92786074	11/19/92	WAD058367152
343		D001		1	DM	229	P		229				Flammable aerosol labpack (propane, butane)	92786074	11/19/92	WAD058367152
343		D001		1	DM	106	P		106				Flammable aerosol labpack (toluene, xylene)	91663113	11/06/92	WAD058367152
343		D001		1	DM	402	P		402				Flammable liquid labpack (chromium, MEK)	92786074	11/19/92	WAD058367152
343		D001		1	DM	135	P		135				Flammable liquid labpack (petroleum distillates, chromium)	91663113	11/06/92	WAD058367152
343		D001		1	DM	111	P		111				Flammable liquid labpack (toluene, MEK)	91661461	10/07/92	WAD058367152
343		D001		1	DM	357	P		357				Flammable liquid labpack (toluene, MEK)	91663113	11/06/92	WAD058367152
343		D001		1	DM	425	P		425				Flammable liquid labpack (toluene, MEK)	91663113	11/06/92	WAD058367152
343		D001		1	DM	269	P		269				Flammable liquid labpack (toluene, MEK)	91661155	09/09/92	WAD058367152
343		D001	D018	3	DM	878	P		878				Fuel with benzene	91661259	09/23/92	WAD058367152
343		D001		1	DM	144	P		144				Gas path cleaning compound	91663317	03/26/92	WAD058367152
343		D001		1	DM	474	P		474				Gas path cleaning compound	91663573	04/17/92	WAD058367152
343		D001		3	DM	758	P		758				Gas path cleaning compound	91665055	02/18/92	WAD058367152
343		D001	D018	1	DM	108	P		108				Gasoline with water, benzene	91661259	09/23/92	WAD058367152
343		D001	D018	1	DM	124	P		124				Gasoline with water, benzene	91661259	09/23/92	WAD058367152
343		D001	D018	2	DM	684	P		684				Gasoline with water, benzene	91664589	05/14/92	WAD058367152
343		NR		1	DM	75	G	0.80	500				Penetrant, oil, grease, water/dirt	90988708	06/11/92	CAT080010101
343		D001	F003 F005 D035	1	DM	474	P		474				Petroleum oil	91664427	07/27/92	WAD058367152
343		D001	D035 F003 F005	1	DM	488	P		488				Petroleum oil	91663113	11/06/92	WAD058367152
343		D001	F003 F005 D035	2	DM	650	P		650				Petroleum oil w/ toluene, xylene, MEK	91663521	04/09/92	WAD058367152
343		D001	F003 F005 D035	2	DM	860	P		860				Petroleum oil w/ toluene, xylene, MEK	91663347	03/20/92	WAD058367152
343		D001	F003 F005 D035	1	DM	240	P		240				Petroleum oil w/ toluene, xylene, MEK, acetone	91663380	03/26/92	WAD058367152
343		D001	F003 F005 D035	1	DM	404	P		404				Petroleum oil w/ toluene, xylene, MEK, acetone	91664641	07/14/92	WAD058367152
343		D001	F003 F005 D035	1	DM	434	P		434				Petroleum oil w/ toluene, xylene, MEK, acetone	91663573	04/17/92	WAD058367152
343		D001	D035 F003 F005	2	DM	712	P		712				Petroleum oil w/ toluene, xylene, MEK, acetone	91663258	03/11/92	WAD058367152
343		D001	F003 F005 D035	2	DM	850	P		850				Petroleum oil w/ toluene, xylene, MEK, acetone	91504763	06/08/92	WAD058367152
343		D001	F003 F005 D035	5	DM	2010	P		2010				Petroleum oil w/ toluene, xylene, MEK, acetone	91661259	09/23/92	WAD058367152
343		NR		3	DM	520	P		520				Roofing tar	91663137	11/06/92	WAD058367152
343		D001		1	DM	76	P		76				Stain w/ mineral spirits	91505130	07/28/92	WAD058367152
343		D002		1	DF	12	G	0.80	80				Waste acetic acid	90988707	06/11/92	CAT080010101
343		D001		1	DM	143	P		143	29168	0.728%		Waste aerosols	91663143	11/06/92	WAD058367152
352		F002	D007 D026 F004	1	DM	106	P		106				Absorbent w/ paint remover	91663521	04/09/92	WAD058367152
352		NR		1	DM	115	P		115				Air filters w/ beryllium	91661312	09/30/92	WAD058367152
352		NR		1	DM	200	P		200				Empty containers and absorbent	92471047	10/27/92	CAT080010101
352		D018		1	DM	119	P		119				Oil/fuel filters w/ benzene	91661259	09/23/92	WAD058367152
352		D006	D008 D009 D010 D011	1	DM	197	P		197				Paint chips w/ cadmium, lead, mercury, silver, selenium	91665055	02/18/92	WAD058367152
352		D006	D008 D009 D010 D011	1	DM	300	P		300				Paint chips w/ cadmium, lead, mercury, silver, selenium	91664589	05/14/92	WAD058367152
352		D001		1	DM	56	P		56				Rags contaminated w/ mineral spirits	91661155	09/09/92	WAD058367152
352		D001	D035 F003 F005	1	DM	78	P		78				Rags contaminated w/ toluene, xylene, MEK	92786108	12/02/92	WAD058367152
352		D001	D035 F003 F005	1	DM	100	P		100				Rags contaminated w/ toluene, xylene, MEK	91661155	09/09/92	WAD058367152
352		D001	D035 F003 F005	1	DM	107	P		107				Rags contaminated w/ toluene, xylene, MEK	92786074	11/19/92	WAD058367152
352		D001	D035 F003 F005	1	DM	108	P		108				Rags contaminated w/ toluene, xylene, MEK	92786187	12/02/92	WAD058367152
352		D001	D035 F003 F005	1	DM	158	P		158				Rags contaminated w/ toluene, xylene, MEK	91664427	07/27/92	WAD058367152
352		D001	D035 F003 F005	2	DF	250	P		250				Rags contaminated w/ toluene, xylene, MEK	91664427	07/27/92	WAD058367152
352		D001	D035 F003 F005	3	DM	306	P		306				Rags contaminated w/ toluene, xylene, MEK	91661461	10/07/92	WAD058367152
352		D001	F003 F005 D035	2	DM	314	P		314				Rags contaminated w/ toluene, xylene, MEK	91661259	09/23/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
352		D035	F003 F005	5	DM	1059	P		1059				Rags contaminated w/ toluene, xylene, MEK	91665087	02/25/92	WAD058367152
352		F002		1	DM	42	P		42				Rags contaminated w/ trichlorofluoroethane	91664427	07/27/92	WAD058367152
352		D007		1	DM	64	P		64				Rags w/ aldrine, acetic chromates	91504763	06/08/92	WAD058367152
352		D007	F002	1	DF	50	P		50				Rags w/ paint remover (methylene chloride)	91504773	06/10/92	WAD058367152
352		D008		1	DM	70	P		70				Rags w/ paint, lead	92786224	12/14/92	WAD058367152
352		D008		1	DM	132	P		132				Rags w/ paint, lead	91504773	06/10/92	WAD058367152
352		NR		1	DM	145	P		145				Rags/absorbent contaminated with fuel, oil, POL	91788261	02/26/92	CAT000646117
352		D001	D035	1	DM	66	P		66				Solidified paint w/ MEK, toluene	92786108	12/02/92	WAD058367152
352		NR		1	DM	460	P		460				Solidified tar	91663137	11/06/92	WAD058367152
352		NR		1	DM	100	P		100				Tar paper, wood contaminated w/ solvent	92480955	11/30/92	CAT00010101
352		D007	D035	4	DM	622	P		622				Waste solid, chromium, MEK	91661259	09/23/92	WAD058367152
352		F002	D007	1	DM	32	P		32	5356	0.134%		Waste solid, chromium, methylene chloride	91661259	09/23/92	WAD058367152
461		D001		1	DM	229	P		229				Enamel paint w/ mineral spirits	91664925	02/19/92	WAD058367152
461		D001		1	DM	264	P		264				Enamel paint w/ mineral spirits	91663113	11/06/92	WAD058367152
461		D001		4	DM	667	P		667				Enamel paint w/ mineral spirits	92786074	11/19/92	WAD058367152
461		D001		4	DM	1048	P		1048				Enamel paint w/ mineral spirits	91664684	06/04/92	WAD058367152
461		D001	D008	1	DM	60	P		60				Epoxy polyamide coating w/ n-butanol	92786224	12/14/92	WAD058367152
461		D001	D008	1	DM	62	P		62				Epoxy polyamide coating w/ n-butanol	91660969	08/21/92	WAD058367152
461		D001	D008	1	DM	99	P		99				Epoxy polyamide coating w/ n-butanol	91664427	07/27/92	WAD058367152
461		D001	D008	1	DM	130	P		130				Epoxy polyamide coating w/ n-butanol	91504763	06/08/92	WAD058367152
461		D001	D008	1	DM	165	P		165				Epoxy polyamide coating w/ n-butanol	91664684	06/04/92	WAD058367152
461		D001	D008	3	DM	391	P		391				Epoxy polyamide coating w/ n-butanol	92786074	11/19/92	WAD058367152
461		D001	D008	1	DM	62	P		62				Epoxy polyamide coating w/ n-butanol, lead	91663573	04/17/92	WAD058367152
461		D001	D008	1	DM	141	P		141				Epoxy polyamide coating w/ n-butanol, lead	91665087	02/25/92	WAD058367152
461		D001	D008	2	DM	416	P		416				Epoxy polyamide coating w/ n-butanol, lead	91663347	03/20/92	WAD058367152
461		D001	D005 D007	1	DM	252	P		252				Epoxy primer w/ barium chromate	91665055	02/18/92	WAD058367152
461		D001	D008	1	DM	45	P		45				Miscellaneous paint	91661312	09/30/92	WAD058367152
461		D001	D008	1	DM	116	P		116				Miscellaneous paint	91663113	11/06/92	WAD058367152
461		D001	D008	1	DM	145	P		145				Miscellaneous paint	91661010	09/01/92	WAD058367152
461		D001	D008	1	DM	301	P		301				Miscellaneous paint	91663258	03/11/92	WAD058367152
461		D001	D008	1	DM	312	P		312				Miscellaneous paint	91504774	06/17/92	WAD058367152
461		D001	D008	1	DM	446	P		446				Miscellaneous paint	91504763	06/08/92	WAD058367152
461		D001	D008	1	DM	460	P		460				Miscellaneous paint	91504763	06/08/92	WAD058367152
461		D001	D008	1	DM	480	P		480				Miscellaneous paint	91664684	06/04/92	WAD058367152
461		D001	D008	2	DM	512	P		512				Miscellaneous paint	91663347	03/20/92	WAD058367152
461		D001	D007 F003 F005	1	DM	249	P		249				Mixed waste paint	91665087	02/25/92	WAD058367152
461		D007	F003 F005	7	DM	3372	P		3372				Paint booth sludge	92786187	12/02/92	WAD058367152
461		D007	F003 F005	13	DM	6673	P		6673				Paint booth sludge	91661010	09/01/92	WAD058367152
461		D007	F003 F005	26	DM	12202	P		12202				Paint booth sludge	91665087	02/25/92	WAD058367152
461		NR		1	DM	45	P		45				Paint debris	91663258	03/11/92	WAD058367152
461		NR		1	DM	64	P		64				Paint debris	91663258	03/11/92	WAD058367152
461		NR		1	DM	72	P		72				Paint debris	92786074	11/19/92	WAD058367152
461		NR		1	DM	76	P		76				Paint debris	91661010	09/01/92	WAD058367152
461		NR		1	DM	98	P		98				Paint debris	91664589	05/14/92	WAD058367152
461		D001	D035 F003 F005	1	DM	64	P		64				Paint debris w/ toluene, xylene, MEK	91504763	06/08/92	WAD058367152
461		D001	F003 F005 D035	1	DM	112	P		112				Paint debris w/ toluene, xylene, MEK	91661155	09/09/92	WAD058367152
461		D001	D035 F003 F005	1	DM	288	P		288				Paint debris w/ toluene, xylene, MEK	91661259	09/23/92	WAD058367152
461		D001	D035 F003 F005	2	DM	338	P		338				Paint debris w/ toluene, xylene, MEK	91505130	07/28/92	WAD058367152
461		D001	D035 F003 F005	4	DM	420	P		420				Paint debris w/ toluene, xylene, MEK	91661243	09/25/92	WAD058367152
461		D001	D035 F003 F005	3	DM	734	P		734				Paint debris w/ toluene, xylene, MEK	91504774	06/17/92	WAD058367152

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State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
461		D001	D035 F003 F005	3	DM	1038	P		1038				Paint debris w/ toluene, xylene, MEK	91663571	04/17/92	WAD058367152
461		D001	F035 F003 F005	4	DM	1054	P		1054				Paint debris w/ toluene, xylene, MEK	91663521	04/09/92	WAD058367152
461		D001	F003 F005 D006 D007 D008	1	DM	80	P		80				Paint sludge	91663459	03/31/92	WAD058367152
461		D001	D006 D007 D008 F003 F005 D035	1	DM	288	P		288				Paint sludge	91664427	07/27/92	WAD058367152
461		D001	F003 F005 D035 D006 D008 D008	2	DM	646	P		646				Paint sludge	92786224	12/14/92	WAD058367152
461		D001	D006 D007 D008 D035 F005 F003	6	DM	2005	P		2005				Paint sludge	91663571	04/17/92	WAD058367152
461		D002	D007	1	DM	57	P		57				Paint stripper	92786108	12/02/92	WAD058367152
461		D001	D008	1	DM	124	P		124				Paint w/ lead, mineral spirits	91663573	04/17/92	WAD058367152
461		F001	D008	2	DM	250	P		250				Paint w/ lead, mineral spirits	91664427	07/27/92	WAD058367152
461		D001	D008	2	DM	558	P		558				Paint w/ lead, mineral spirits	91663258	03/11/92	WAD058367152
461		D001	D008	3	DM	729	P		729				Paint w/ lead, mineral spirits	91664589	05/14/92	WAD058367152
461		D001	D006 D007 D008 F003	4	DM	1897	P		1897				Paint w/ petroleum products	91663310	03/13/92	WAD058367152
461		D001	D006 D007 D008 F003 F005	1	DM	116	P		116				Paint w/ solvents	92786108	12/02/92	WAD058367152
461		D001	D006 D007 D008 F003 F005	2	DM	182	P		182				Paint w/ solvents	91663347	03/20/92	WAD058367152
461		D001	D006 D007 D008 F003 F005	1	DM	326	P		326				Paint w/ solvents	91661255	09/23/92	WAD058367152
461		D001	D006 D007 D008 F003	1	DM	505	P		505				Paint w/ solvents	91663258	03/11/92	WAD058367152
461		D001	D006 D007 D008 F003	3	DM	598	P		598				Paint w/ solvents	91663521	04/09/92	WAD058367152
461		D001	D006 D007 D008 D035	1	DM	150	P		150				Paint w/ solvents, cadmium, chromium, lead, MEK	91665055	02/18/92	WAD058367152
461		D001	D006 D007 D008 D035	1	DM	40	P		40				Paint w/ solvents, chromium, cadmium, MEK	92786224	12/14/92	WAD058367152
461		D001	D035	1	DM	90	P		90				Polyurethane coating	91663459	03/31/92	WAD058367152
461		D001	D035 F003 F005	1	DM	96	P		96				Polyurethane coating	91661243	09/25/92	WAD058367152
461		D001	F003 F005 D035	2	DM	160	P		160				Polyurethane coating	91660969	08/21/92	WAD058367152
461		D001	F003 F005 D035	1	DM	168	P		168				Polyurethane coating	91661255	09/23/92	WAD058367152
461		D001	F003 F005 D035	2	DM	235	P		235				Polyurethane coating	91661010	09/01/92	WAD058367152
461		D001	D035 F003 F005	2	DM	262	P		262				Polyurethane coating	91504763	06/08/92	WAD058367152
461		D001	D035 F003 F005	2	DM	295	P		295				Polyurethane coating	92786074	11/19/92	WAD058367152
461		D001	F003 F005 D035	3	DM	524	P		524				Polyurethane coating	91664684	06/04/92	WAD058367152
461		D001	D035 F003 F005	3	DM	945	P		945				Polyurethane coating	91663258	03/11/92	WAD058367152
461		D001	F003 F005 D035 F002	1	DM	56	P		56				Polyurethane coating w/ MEK, methylene chloride	91664589	05/14/92	WAD058367152
461		D001	F003 F005 D035 F002	1	DM	64	P		64				Polyurethane coating w/ MEK, methylene chloride	91663573	04/17/92	WAD058367152
461		D001	F003 F005 F002 D035	1	DM	354	P		354				Polyurethane coating w/ MEK, methylene chloride	91665087	02/25/92	WAD058367152
461		D001	F005 F003 D035 F002	2	DM	506	P		506				Polyurethane coating w/ MEK, methylene chloride	91663521	04/09/92	WAD058367152
461		D001	D035	1	DM	90	P		90				Polyurethane coating w/ MEK, MIBK	91663459	03/31/92	WAD058367152
461		D001	D035	1	DM	140	P		140				Polyurethane coating w/ MEK, MIBK	91663459	03/31/92	WAD058367152
461		D001		1	DM	75	P		75				Spray paint	91663459	03/31/92	WAD058367152
461		D001	D006 D007 D008 D035 F003 F005	1	DM	43	P		43				Waste paint	91505130	07/28/92	WAD058367152
461		D001	D006 D007 D008 F003	1	DM	43	P		43				Waste paint	91505130	07/28/92	WAD058367152
461		D001	D006 D007 D008 F003	1	DM	74	P		74				Waste paint	91504774	06/17/92	WAD058367152
461		D001		1	DM	108	P		108				Waste paint	91661259	09/23/92	WAD058367152
461		D001	D006 D007 D008 F003	1	DM	120	P		120				Waste paint	91664684	06/04/92	WAD058367152
461		D001		1	DM	125	P		125				Waste paint	91661259	09/23/92	WAD058367152
461		D001	D006 D007 D008 F003	1	DM	131	P		131				Waste paint	92786074	11/19/92	WAD058367152
461		D001		1	DM	196	P		196				Waste paint	91661259	09/23/92	WAD058367152

MCAS-El Toro: Manifest Log 1992

State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
461		D001	D006 D007 D008 F003	4	DM	224	P		224				Waste paint	91664681	06/04/92	WAD058367152
461		D001		1	DM	230	P		230				Waste paint	91661259	09/23/92	WAD058367152
461		D001	D006 D007 D008 F003	2	DM	247	P		247				Waste paint	92786074	11/19/92	WAD058367152
461		D001	D006 D007 D008 F003	1	DM	476	P		476				Waste paint	91664589	05/14/92	WAD058367152
461		D001	D006 D007 D008 F003	1	DM	500	P		500				Waste paint	91663258	03/11/92	WAD058367152
461		D001	D008	3	DM	505	P		505				Waste paint	91663317	03/26/92	WAD058367152
461		D001	D006 D007 D008 D035	2	DM	696	P		696				Waste paint	91661461	10/07/92	WAD058367152
461		D001	D006 D007 D008 F003	2	DM	918	P		918				Waste paint	91664684	06/04/92	WAD058367152
461		D001	D006 D007 D008 F003	3	DM	1164	P		1164	52113	1.300%		Waste paint	91661243	09/23/92	WAD058367152
512	513	NR		1	DM	25	P		25				Empty containers	91664589	05/14/92	WAD058367152
512	513	NR		1	DM	40	P		40				Empty containers	91663113	11/06/92	WAD058367152
512	513	NR		1	DM	44	P		44				Empty containers	91661155	09/09/92	WAD058367152
512	513	NR		1	DM	52	P		52				Empty containers	91663258	03/11/92	WAD058367152
512	513	NR		1	DM	56	P		56				Empty containers	91663310	03/13/92	WAD058367152
512	513	NR		1	DM	60	P		60				Empty containers	91660969	08/21/92	WAD058367152
512	513	NR		1	DM	72	P		72				Empty containers	91661259	09/23/92	WAD058367152
512	513	NR		1	DM	72	P		72				Empty containers	91663113	11/06/92	WAD058367152
512	513	NR		1	DM	80	P		80				Empty containers	91664427	07/27/92	WAD058367152
512	513	NR		1	DM	84	P		84				Empty containers	91661259	09/23/92	WAD058367152
512	513	NR		1	DM	88	P		88				Empty containers	91661243	09/23/92	WAD058367152
512	513	NR		1	DM	90	P		90				Empty containers	91663113	11/06/92	WAD058367152
512	513	NR		1	DM	94	P		94				Empty containers	91664684	06/04/92	WAD058367152
512	513	NR		1	DM	95	P		95				Empty containers	91663571	04/17/92	WAD058367152
512	513	NR		1	DM	102	P		102				Empty containers	91663571	04/17/92	WAD058367152
512	513	NR		2	DM	106	P		106				Empty containers	92786074	11/19/92	WAD058367152
512	513	NR		1	DM	120	P		120				Empty containers	91664427	07/27/92	WAD058367152
512	513	NR		2	DM	129	P		129				Empty containers	91661312	09/30/92	WAD058367152
512	513	NR		2	DF	134	P		134				Empty containers	91504763	06/08/92	WAD058367152
512	513	NR		1	DM	158	P		158				Empty containers	91663143	11/06/92	WAD058367152
512	513	NR		2	DM	178	P		178				Empty containers	91664641	07/14/92	WAD058367152
512	513	NR		2	DM	202	P		202				Empty containers	91505130	07/28/92	WAD058367152
512	513	NR		1	DM	250	P		250				Empty containers	91788261	02/26/92	CAT000646117
512	513	NR		2	DM	254	P		254				Empty containers	92786187	12/02/92	WAD058367152
512	513	NR		3	DM	255	P		255				Empty containers	91663143	11/06/92	WAD058367152
512	513	NR		2	DM	274	P		274				Empty containers	91661461	10/07/92	WAD058367152
512	513	NR		5	DM	407	P		407				Empty containers	91664427	07/27/92	WAD058367152
512	513	NR		3	DM	500	P		500				Empty containers	91788223	01/27/92	CAT000646117
512	513	NR		1	TP	1354	P		1354				Empty containers	91504774	06/17/92	WAD058367152
512	513	NR		60	DM	3000	P		3000				Empty containers	91664660	06/04/92	WAD058367152
512	513	NR		1	CM	6260	P		6260				Empty containers	91661552	10/13/92	CAT000646117
512	513	NR		110	DM	6350	P		6350				Empty containers	91664427	07/27/92	WAD058367152
512	513	NR		3	CF	3	Y		150				Empty containers	91788202	01/13/92	CAT000646117
512	513	NR		1	CF	1	Y		50				Empty containers	91788244	03/30/92	CAT000646117
512	513	NR		23	DM	1265	P		1265	22450	0.560%		Epoxy containers	91663258	03/11/92	WAD058367152
541		NR		1	DF	15	G	1.50	188				Consolidated photochemicals	90988707	06/11/92	CAT080010101
541		D002		1	DM	78	P		78				Empty photochemical bladders	92786108	12/02/92	WAD058367152
541	331	NR		1	DF	5	G	0.80	33				Photographic chemicals	92471020	10/09/92	CAT080010101
541		NR		1	DF	90	P		90				Photography labpack	90988752	07/09/92	CAT080010101
541		D007	D008	1	DM	154	P		154				Photography waste w/ chromium	91663173	11/21/92	WAD058367152

MCAS-El Toro: Manifest Log 1992

State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (P)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
		D011		1	DM	376	P		376	919	0.023%		Silver recovery units with copper, silver	91661312	09/30/92	WAD058367152
551		D002		1	DF	86	P		86				Acid liquid labpack	91661259	09/23/92	WAD058367152
551		D001		1	DM	68	P		68				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	150	P		150				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	195	P		195				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	202	P		202				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	233	P		233				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	272	P		272				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	288	P		288				Flammable liquid labpack	91663459	03/31/92	WAD058367152
551		D001		1	DM	305	P		305				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	318	P		318				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		D001		1	DM	336	P		336				Flammable liquid labpack	91664684	06/04/92	WAD058367152
551		D001		1	DM	375	P		375				Flammable liquid labpack	91665055	02/18/92	WAD058367152
551		NR		1	DF	7	G	0.80	47				Formaldehyde/methanol - labpack	91788228	01/27/92	CAT080010101
551		D003		1	DF	30	P		30				Grease/Lead - labpack	91788228	01/27/92	CAT080010101
551		D001	D007	1	DF	22	P		22				Lab pack w/ chromic acid, potassium dichromate	90988746	07/07/92	CAT080010101
551		NR		1	DF	10	P		10				Liquid dye - cyanogen blue	91788247	03/30/92	CAT080010101
551		NR		2	DF	50	P		50	2987	0.075%		Waste liquid - sodium thioeyanate, iodine, benzyl chloride, dimethyl sulfate	91788247	03/30/92	CAT080010101
611		D008		4	DM	1	Y		2720				Sandblast gnt w/ vermiculite and absorbent	92000637	09/30/92	NVT330010000
611		NR		2	CM	18	T	2000	36000			X	Soil contaminated w/ fuel	90762386	04/22/92	CAD000633164
611		NR		2	CM	18	T	2000	36000			X	Soil contaminated w/ fuel	90762387	04/22/92	CAD000633164
611		D006	D007 D008 F003 F005	1	DM	730	P		730	75450	1.882%	X	Soil with paint chips	91505131	11/06/92	WAD058367152
741		F001		1	DM	20	P		20				1,1,1-TCA	91663258	03/11/92	WAD058367152
741		F001		1	DM	40	G	1.60	534				1,1,1-TCA	91788233	02/04/92	CAD089446710
741		D002	D007	1	DM	55	P		55				Corrosive paint remover	91661259	09/23/92	WAD058367152
741		D002	D007	1	DM	72	P		72				Corrosive paint remover	91661255	09/23/92	WAD058367152
741		D002	D007	3	DM	1290	P		1290				Corrosive paint remover, toluene, methanol, sodium chromate	91663347	03/20/92	WAD058367152
741		F002		1	DM	60	P		60				Freon	92786074	11/19/92	WAD058367152
741		F002		1	DM	84	P		84				Freon	91663573	04/17/92	WAD058367152
741		F002		1	DM	180	P		180				Freon	91663317	03/26/92	WAD058367152
741		F002		6	DM	4158	P		4158				Freon	91664427	07/27/92	WAD058367152
741		D001	F002 F005 D035 D007	1	DM	302	P		302				Paint, stripper, water, methylene chloride, chromium, MEK	91664589	05/14/92	WAD058367152
741		D001	F002 F005 D035 D007	1	DM	302	P		302				Paint, stripper, water, methylene chloride, MEK	91663347	03/20/92	WAD058367152
741		D001	D039 D018	13	DM	1077	P		1077				Petroleum naphtha	90933024	04/03/92	CAT000613976
741		D001	D039 D018	15	DM	1085	P		1085				Petroleum naphtha	908991255	03/06/92	CAT000613976
741		D001	D039 D018	14	DM	1122	P		1122				Petroleum naphtha	90990833	05/29/92	CAT000613976
741		D001	D039 D018	14	DM	1163	P		1163				Petroleum naphtha	91729381	01/10/92	CAT000613976
741		D001	D039 D018	14	DM	1163	P		1163				Petroleum naphtha	91795235	02/07/92	CAT000613976
741		D001	D039 D018	19	DM	1347	P		1347				Petroleum naphtha	90990429	05/01/92	CAT000613976
741		D001	D039 D018	17	DM	1421	P		1421				Petroleum naphtha	92121258	07/24/92	CAT000613976
741		D001	D039 D018	19	DM	1429	P		1429				Petroleum naphtha	92147653	06/26/92	CAT000613976
741		F002		1	DM	348	P		348	17212	0.429%		Stoddard solvent with methylene chloride	91664684	06/04/92	WAD058367152
791	551	D001	D002	1	DF	50	P		50				Chromic Acid / Phosphoric acid	91788155	01/22/92	CAT080010101
791		D002		1	DF	80	P		80				Corrosion removing compound w/ phosphoric acid	91664427	07/27/92	WAD058367152
791		D008		1	DM	43	P		43				Neutralized sulfuric acid spill cleanup debris	91661243	09/25/92	WAD058367152
791		D002		1	DF	1	G	0.80	7				Sulfuric acid	89588664	07/07/92	CAT080010101

MCAS-El Toro: Manifest Log 1992

State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (lb)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											
791		D002		1	DM	188	P		188				Sulfuric acid	91663380	03/26/92	WAD058367152
791		D002		1	DF	550	P		550				Sulfuric acid	91504774	06/17/92	WAD058367152
791		D002	D008	1	DM	482	P		482				Sulfuric acid with lead	91664925	02/19/92	WAD058367152
791	551	D002		1	DF	15	P		15	1415	0.035%		Waste acetic acid	91788247	03/30/92	CAT080010101
792		D002	D007	1	DF	115	P		115				Alodine corrosion resistant coating, chromic acid	91665055	02/18/92	WAD058367152
792		D001	D002	2	DF	454	P		454				Nitric acid	91665055	02/18/92	WAD058367152
792		D002	D007	1	DF	30	G	0.80	200	769	0.019%		Waste alodine mixture - chromic, phosphoric and sulfuric acids	91788246	03/30/92	CAT080010101
<b>Total Hazardous Waste (lb)</b>									<b>4008128</b>		<b>100%</b>					
<b>Non-Hazardous Waste</b>																
N/A		NR		4	DM	1989	P		1989				Calcium hydroxide, polymer, water	91661259	09/23/92	WAD058367152
N/A		NR		1	DM	190	P		190				Ethylene glycol (antifreeze)	92786074	11/19/92	WAD058367152
N/A		NR		1	DM	200	P		200				Ethylene glycol (antifreeze)	91663310	03/13/92	WAD058367152
N/A		NR		1	DF	335	P		335				Ethylene glycol (antifreeze)	91664427	07/27/92	WAD058367152
N/A		NR		1	DM	346	P		346				Ethylene glycol (antifreeze)	91664589	05/14/92	WAD058367152
N/A		NR		1	TT	61	G	0.80	407				Ethylene glycol (antifreeze)	91788219	01/31/92	CAT040370645
N/A		NR		2	DM	473	P		473				Ethylene glycol (antifreeze)	92786108	12/02/92	WAD058367152
N/A		NR		1	DM	580	P		580				Ethylene glycol (antifreeze)	91663113	11/06/92	WAD058367152
N/A		NR		3	DM	650	P		650				Ethylene glycol (antifreeze)	91505130	07/28/92	WAD058367152
N/A		NR		3	DM	982	P		982				Ethylene glycol (antifreeze)	91661259	09/23/92	WAD058367152
N/A		NR		2	DM	982	P		982				Ethylene glycol (antifreeze)	91664684	06/04/92	WAD058367152
N/A		NR		2	DM	1154	P		1154				Ethylene glycol (antifreeze)	91661255	09/23/92	WAD058367152
N/A		NR		3	DM	1343	P		1343				Ethylene glycol (antifreeze)	91664925	02/19/92	WAD058367152
N/A		NR		4	DM	1400	P		1400				Ethylene glycol (antifreeze)	91663573	04/17/92	WAD058367152
N/A		NR		5	DM	1635	P		1635				Ethylene glycol (antifreeze)	91664427	07/27/92	WAD058367152
N/A		NR		25	DM	13269	P		13269				Ethylene glycol (antifreeze)	91663258	03/11/92	WAD058367152
N/A		NR		1	DM	66	P		66				Carpet slampoos	91504774	06/17/92	WAD058367152
N/A		NR		2	DM	1256	P		1256				Cooking grease	91661461	10/07/92	WAD058367152
N/A		NR		1	DM	234	P		234				Dessicant	91663521	04/09/92	WAD058367152
N/A		NR		1	DM	74	P		74				Germiletol, dental lubricant	91664589	05/14/92	WAD058367152
N/A		NR		1	DM	25	P		25				Latex paint	91661461	10/07/92	WAD058367152
N/A		NR		1	DM	51	P		51				Latex paint	92786108	12/02/92	WAD058367152
N/A		NR		1	DM	116	P		116				Latex paint	91504763	06/08/92	WAD058367152
N/A		NR		1	DM	125	P		125				Latex paint	91665055	02/18/92	WAD058367152
N/A		NR		2	DM	173	P		173				Latex paint	91661259	09/23/92	WAD058367152
N/A		NR		1	DM	359	P		359				Latex paint	91665055	02/18/92	WAD058367152
N/A		NR		1	DM	60	P		60				Lime sulfur fungicide	91664641	07/14/92	WAD058367152
N/A		NR		1	DM	146	P		146				Mineral oil	91661259	09/23/92	WAD058367152
N/A		NR		1	DM	90	P		90				Non-hazardous waste liquid labpack	92786074	11/19/92	WAD058367152
N/A		NR		1	TP	125	K	2.20	275	28985	100%		Noncontaminated electrical equipment	90420168	03/23/92	AZD982465866
<b>Total Non-Hazardous Waste (lb)</b>									<b>28985</b>		<b>100%</b>					

**Total Manifested Waste (lb) 4312306**

## MCAS-El Toro: Manifest Log 1992

State WC	State Other	EPA WC	EPA other	Container		Total Qty.	Unit	SG or conv. factor	Weight (#)	Total by State WC	% of Total	Code	Station Personnel Waste Description	Manifest Number	Date Gener. Release	Designated Facility EPA ID No.
				No.	Type											

N/A = No applicable California Waste Code

NR = Non-RCRA

E = Extremely hazardous waste

X = Exempt under SB 14

### Types of hazardous waste containers:

BA = Burlap, cloth, paper, or plastic bags

CF = Fiber or plastic boxes, cartons, or cases

CM = Metal boxes, cartons, cases, roll-offs

CW = Wooden boxes, cartons, or cases

DF = Fiberboard or plastic drums, barrels, or kegs

DM = Metal drums, barrels, kegs

TC = Tank cars

TP = Tanks, portable

TT = Tank trucks, cargo tanks

### Unit of weight or volume

G = Gallons

K = Kilograms

P = Pounds

T = Tons (2,000 lb)

Y = Cubic yards

**MCAS EL TORO**  
**ANNUAL HAZARDOUS WASTE REPORT**  
**CALENDAR YEAR 1992**

CY91 HAZARDOUS WASTE ANNUAL REPORT (HWAR)

Instructions for completing and forwarding this report are provided in the HWAR Guide, NEESA 15-023\*

SEPARATE COMPLETE HWARs ARE REQUIRED FOR EACH ACTIVITY

PART A: ACTIVITY INFORMATION

- 1. UIC: M60050
- 2. ACTIVITY NAME: Marine Corps Air Station (MCAS) El Toro
- 3. HWAR CONTACT: Mr. Eddie Benavente
- 4. DEPARTMENT CODE: 1AU
- 5. PHONE (DSN, Commercial): 997-2772/(714) 726-2772

PART B: HW MANAGEMENT INFORMATION

- 1. EPA GENERATOR IDENTIFICATION NUMBER: CA6170023208

Name of activity holding ID number: MCAS El Toro

2. REGULATORY PERMITS

- a) RCRA TSD PERMIT NUMBER: CA6170023208

Name of Activity holding TSD Permit: MCAS El Toro

- b) RCRA TSD PERMIT STATUS: (for permit holders only)    TYPE OF PERMIT

(Circle YES or NO)

(Circle all that apply)

Part A Permit RECEIVED:             Yes    No            DATE: 09 / 30 / 91    T  D X

Part B Permit APPLIED FOR:         Yes    No            DATE: 08 / 05 / 91    T  D X

Part B Permit RECEIVED:            Yes     No            DATE: \_\_\_ / \_\_\_ / \_\_\_    T  D X

\* NEESA 15-023 available from: Naval Energy and Environmental Support Activity

Does your TSD permit allow HW from off-site sources?

Yes  No

c) Subject to POST CLOSURE ONLY

Yes  No

PART B. Management information (continued)

d) Does your activity have a HW TRANSPORTER ID NUMBER?

Yes  No

e) List all T,X,S,D PERMITTED UNITS (RCRA AND NON-RCRA):

Unit/Type (i.e. Bldg #, T,X,S,D.)	Permit Type (RCRA, NPDES)	Issuing Agency
• Bldg. 673T3 (Storage)	RCRA	DTSC *
•		
•		
• * Recognized by U. S. EPA.		

3. SOLID WASTE MANAGEMENT UNITS (SWMUs)

a. For TSD permit holders, identify the number of Solid Waste Management Units (SWMUs). Currently being identified through an RFA.

b. Has a RCRA Facilities Assessment (RFA) been conducted identifying any potential HW releases? If Yes, by whom? (Circle One) EPA STATE  NAVY NONE Yes. Report due out 18 March 1993.

c. If an RFA has been conducted, how many SWMUs must have a RCRA Facilities Investigation (RFI)? Report due out 18 March 1993.

d. If an RFI has been conducted, how many SWMUs require corrective action? N/A

e. How many corrective actions have been completed? N/A

4. GENERATOR CLASS: (Check one)

CLASS I: Generates 1,000 kg (2,200 lbs) HW or more, or 1 kg (2.2 lbs) or more acute HW per MONTH. (Equal to 26,400 lbs HW or more, or 26.4 lbs or more acute HW per YEAR.)



PART D: RECYCLING (Circle Yes or No for the following questions)

1. Does your activity have a formal HAZMAT recycling program?  Yes  No
2. Does your activity have a formal program to reuse HW? DRMO RTD&S  Yes  No
3. Does activity have a used Solvent Elimination (USE) Program?  
Safety-Kleen  Yes  No
4. Does your activity recycle oil?  Yes  No

Specify gallons of used oil recycled 14,000

5. Is used oil defined as a HW in your state?  Yes  No
6. Does you activity use degraded fuels? Yes  No

For what operations/purposes? \_\_\_\_\_

Are degraded fuels mixed in the Used Oil Management System? N/A Yes No

Specify the volume generated ∅

7. RECYCLING REVENUES: calculations: A - B + C = D				
	A	B	C	D
Recycling Program	Gross Revenues (\$)	Cost (\$)	Cost Avoidance (\$)	Net Revenues (\$)
Used Oil	Donation		\$18,564.00	
Used Solvent Elimination (USE)	SAFETY-KLEEN CONTRACT		\$ 8,042.02	
Other HW Programs (Specify)				
WASTE JP-5 FUEL	\$5,583.00	∅	\$71,029.00	
BATTERIES,	\$2,000.00	∅	\$15,750.00	

## PART D. RECYCLING (continued)

UIC OF GENERATOR M60050

8. HAZARDOUS WASTE/MATERIAL RECYCLED/REUSED: (Include recycled used oil ONLY if it is a HW in your state.)

EPAN	DOT#	WASTE DESCRIPTION	PROCESS CODE	TECH-NOLOGY CODE	QTY FROM BACKLOG	QTY RECYCLED (Pounds-P or Tons-T)	RECYCLING METHOD (Also indicate if through USE program and whether on-base, off-base, or DRMO*)
NON-RCRA		WASTE PETROLEUM OIL	FC	FCT01		54.6T	DRMO (Donation)
NON-RCRA		WASTE JP-5 JET FUEL	FC	FCT01		208T	DRMO (Sales & Donation)
D002	NA2794	BATTERY, LEAD-ACID	BA	BAT01		12.5P	DRMO
D001	NA1993	NAPTHA, PETROLEUM	FC	FCT01		6.5T	SAFETY-KLEEN

\*DRMO: DRMO-hired contractor or DRMO custody/accountability..

RT E: HAZARDOUS WASTE OPERATIONS

OF GENERATOR M60050

THE INSTRUCTIONS IN THE HWAR GUIDE BEFORE COMPLETING

WASTE LOCATION CODES

- 0 - On-site
- 1 - Off-site (e.g. private contractor)
- 2 - DRMO (DRMO-hired contractor or DRMO custody/accountability)

ABBREVIATIONS FOR UNITS

- Pounds - P
- Tons - T

QUANTITIES GENERATED + BACKLOGGED = QUANTITIES TREATED + STORED + DISPOSED

WASTE IDENTIFICATION**				WASTE ORIGIN		WASTE STATUS as of 31 Dec CY							
WASTE ID NUMBER		WASTE DESCRIPTION	PRO-CESS CODE*	TECH IMPL CODE	QUANTITY GENERATED	QUANTITY BACKLOGGED	TREATED		STORED		DISPOSED		PRIOR TREATMENT Y/N
EPA #	DOT #				In Report CY (Specify Units)	Previous CY (Specify Units)	QUANTITY (Specify Units) P/T	LOCA-TION (N, F or O)	QUANTITY (Specify Units) P/T	LOCA-TION (N, F or O)	QUANTITY (Specify Units) P/T	LOCA-TION (N, F or O)	
NON-RCRA	223	ABSORBENT W/FUEL & OIL	SC		48T						48T	D	N
D002	UN1090	ACETONE			260P						260P	D	N
D001	UN1133	ADHESIVE			1,349P						1,349P	D	N
D001	UN1219	ALCOHOL			1,196P						1,196P	D	N
D002 D007	UN1755	ALODINE			363P						363P	D	N
ORM-E	NA9188	ASBESTOS RELATED WASTE	AW		36T						36T	F	N
D002 D009	UN1759	BATTERIES, ALKALINE	BA		634P						634P	D	N
D002		BATTERIES, CADMIUM	BA		200P						200P	D	N

See list of Process Codes in HWAR Guide, NEESA 15-023.

If state numbers used, list the number or SR (state regulated) in EPA # column.

RECYCLED MATERIAL SHOULD BE LISTED IN PART D. FOR AN EXPLANATION OF THE DIFFERENCE BETWEEN RECYCLED AND TREATED SEE THE HWAR GUIDE, NEESA 15-023.

## PART E: HAZARDOUS WASTE OPERATIONS (Continued)

SIC OF GENERATOR M60050

WASTE IDENTIFICATION**				WASTE ORIGIN		WASTE STATUS as of 31 Dec CY							
WASTE ID NUMBER		WASTE DESCRIPTION	PRO- CESS CODE*	TECH IMPL CODE	QUANTITY GENERATED In Report CY (Specify Units)	QUANTITY BACKLOGGED Previous CY (Specify Units)	TREATED		STORED		DISPOSED		PRIOR TREAT- MENT Y/N
EPA #	DOT #						QUANTITY (Specify Units) P/T	LOCA- TION (N, F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (N, F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (N, F or D)	
D001 D003	ORM-C	BATTERIES, LITHIUM	BA		1,011P						1,011P	D	N
D009	ORM-E	BATTERIES, MERCURY	BA		216P						216P	D	N
D002	NA1813	BATTERIES, POTASSIUM	BA		496P						496P	D	N
NON-RCRA		CALCIUM HYDROXIDE			2T						2T	D	N
D001 D002 D003 F005		CLEANING COMPOUND			3.5T						3.5T	D	N
D002 D005 D007	NA1993	CORROSION PREVENTA- TIVE COMPOUND			1,011P						1,011P	D	N
D001 D002	UN1760	DEGREASER			1,300P						1,300P	D	N
D001	NA1993	DIESEL W/GASOLINE	FC		218P						218P	D	N
NON-RCRA	512 513	EMPTY CONTAINERS (55-GAL DRUMS)			4T						4T	F	N
NON-RCRA	221	ETHYLENE GLYCOL	FC		5T						5T	D	N
D006 D007 D008 D018	223	FILTERS, OIL/FUEL			6T						6T	D	N

\*See list of Process Codes in MVAR Guide, NEESA 15-023.

\*\*If state numbers used, list the number or SR (state regulated) in EPA # column.

## PART E: HAZARDOUS WASTE OPERATIONS (Continued)

UIC OF GENERATOR M60050

WASTE IDENTIFICATION**				WASTE ORIGIN		WASTE STATUS as of 31 Dec CY							
WASTE ID NUMBER		WASTE DESCRIPTION	PRO- CESS CODE*	TECH IMPL CODE	QUANTITY GENERATED In Report CY (Specify Units)	QUANTITY BACKLOGGED Previous CY (Specify Units)	TREATED		STORED		DISPOSED		PRIOR TREAT- MENT Y/M
EPA #	DOT #						QUANTITY (Specify Units) P/T	LOCA- TION (M, F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (M, F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (M, F or D)	
FO02	214	FREON W/HYDRAULIC FLUID	ER	ERT01 ERT03	4T						4T	D	N
D001	Un1203	GASOLINE W/JP-5 & GREASE	FC		1.5T						1.5T	D	N
NON-RCRA	223				2T						2T	D	N
D002	NA1789	HYDROCHLORIC ACID			1,429P						1,429P	D	N
NON-RCRA		JP-5 w/OIL & WATER	BC		209T						209T	D	N
D009	UN2810	MERCURY	ME	MET03	133P						133P	D	N
D002	NA1760	NITRIC ACID			454P						454P	D	N
D001	NA1993	OIL, PETROLEUM w/BENZENE	BC		87T						87T	D	N
D001 FO03 FO05 D035	NA1993	OIL w/SOLVENT	BC		2T						2T	D	N
NON-RCRA		OIL W/WATER	BC		415T						415T	D	N
D005 D006 D007 D008		PAINT BOOTH FILTERS & DEBRIS	PO		342P						342P	D	N

\*See list of Process Codes in HWAR Guide, NEESA 15-023.

\*\*If state numbers used, list the number or SR (state regulated) in EPA # column.

## PART E: HAZARDOUS WASTE OPERATIONS (Continued)

IIC OF GENERATOR M60050

WASTE IDENTIFICATION**				WASTE ORIGIN		WASTE STATUS as of 31 Dec CY							
WASTE ID NUMBER		WASTE DESCRIPTION	PRO- CESS CODE*	TECH IMPL CODE	QUANTITY GENERATED In Report CY (Specify Units)	QUANTITY BACKLOGGED Previous CY (Specify Units)	TREATED		STORED		DISPOSED		PRIOR TREAT- MENT Y/N
EPA #	DOT #						QUANTITY (Specify Units) P/T	LOCA- TION (W,F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (W,F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (W,F or D)	
DO01 FO03 FO05	UN1993	PAINT W/PETROLEUM	PO		1.5T						1.5T	D	N
FO03 FO05 DO07		PAINT BOOTH SLUDGE	PO		6.5T						6.5T	D	N
DO01 FO03 FO05 DO35	UN1263	PAINT STRIPPER	PO		3T						3T	D	N
DO01 FO03 FO05	UN1263	PAINT THINNER	PO		3T						3T	D	N
DO01	UN1263	PAINT, ENAMEL	PO		3T						3T	D	N
DO01	UN1263	PAINT, EPOXY	PO		446P						446P	D	N
DO01 FO03 FO05 DO35	UN1263	PAINT RELATED MTL	PO		7.5T						7.5T	D	N
DO01 DO08	UN1263	PAINT, LEAD/OIL	PO		1,416P						1,416P	D	N
DO01	UN1263	PAINT, POLYURETHANE COATING	PO		1.5T						1.5T	D	N

\*See List of Process Codes in HWR Guide, NEESA 15-023.

\*\*If state numbers used, list the number or SR (state regulated) in EPA # column.

## PART E: HAZARDOUS WASTE OPERATIONS (Continued)

ID OF GENERATOR M60050

WASTE IDENTIFICATION**				WASTE ORIGIN		WASTE STATUS as of 31 Dec CY							
WASTE ID NUMBER		WASTE DESCRIPTION	PRO- CESS CODE*	TECH IMPL CODE	QUANTITY GENERATED In Report CY (Specify Units)	QUANTITY BACKLOGGED Previous CY (Specify Units)	TREATED		STORED		DISPOSED		
EPA #	DOT #						QUANTITY (Specify Units) P/T	LOCA- TION (W, F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (W, F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (W, F or D)	PRIOR TREAT- MENT Y/N
D001 F003 F005 D007 D008 D035	UN1954	PAINT, AEROSOL	PO		4T						4T	D	N
D001		PLASTIC POLISH			1,450P						1,450P	D	N
ORM-ENA9188		PCB RELATED WASTE	PW		21.5T						21.5T	D	N
NON-RCRA		RAGS w/FUEL, OIL	SC		26T						26T	D	N
D001 F003 F005 D035	UN1760	RAGS w/PAINT & SOLVENT	SC		7T						7T	D	N
D001 D007 D008 D035		SPILL CLEANUP DEBRIS	SC		3T						3T	D	N
D002	UN1832	SULFURIC ACID	BA		3T						3T	D	N
D006 D007 D008 ORM-E		SANDBLAST PAINT CHIP	PO		1T						1T	D	N
D002	UN1823	SODIUM HYDROXIDE			1T						1T	D	N

\*See list of Process Codes in HWAR Guide, WEESA 15-023.

\*\*If state numbers used, list the number or SR (state regulated) in EPA # column.

## PART E: HAZARDOUS WASTE OPERATIONS (Continued)

UIC OF GENERATOR M60050

WASTE IDENTIFICATION**				WASTE ORIGIN		WASTE STATUS as of 31 Dec CY 92							
WASTE ID NUMBER		WASTE DESCRIPTION	PRO- CESS CODE*	TECH IMPL CODE	QUANTITY GENERATED in Report CY (Specify Units)	QUANTITY BACKLOGGED Previous CY (Specify Units)	TREATED		STORED		DISPOSED		PRIOR TREAT- MENT Y/N
EPA #	DOT #						QUANTITY (Specify Units) P/T	LOCA- TION (N,F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (N,F or D)	QUANTITY (Specify Units) P/T	LOCA- TION (N,F or D)	
NON-RCRA	223	SOIL W/FUEL & OIL	SC	FCM01	213T						213T	D	N
NON-RCRA	223	SYNTHETIC OIL	FC	FCM01	12.5T						12.5T	D	N
D001 D006		SOLVENT, MISC.	SO		3.5T						3.5T	D	N
F001 D039 D040	NA3082	OIL/WATER W/1,1,1- TRICHLOROETHANE, TETRACHLOROETHYLENE	BC		1281T						1281T	D	N
D001 D018	NA1993	OIL W/BENZENE	BC		153T						153T	D	N
ORM-E D008	NA9189	SANDBLAST GRIT	PO		8T						8T	D	N
NON-RCRA		SOIL W/PLASTIC & PPE	SC		42T						42T	D	N
D006 D007 D008	NA3082	WASHRACK SLUDGE		BCT02	6.5T						6.5T	D	N
NON-RCRA		WATER (95%) W/OIL (5%)	BC		262T						262T	D	N
D007	NA3082	WATER (99%) W/OIL (Chromium, 500 PPM)	BC		179T						179T	D	N
NON-RCRA		VERMICULITE	BO		993P						993P	D	N

\*See list of Process Codes in HWAR Guide, NEESA 15-023.

\*\*If state numbers used, list the number or SR (state regulated) in EPA # column.

IMPLEMENTED HAZARDOUS WASTE MINIMIZATION EFFORT

TITLE:

NARRATIVE:

- Conditions prior to HAZMIN effort:
  
- Conditions that achieve HAZMIN:
  
- Lessons learned from HAZMIN effort:

HAZARDOUS WASTESTREAM:

POLLUTANT CATEGORY:                      TECHNOLOGY CODE:

PROCESS CODE:

SPECIFIC INDUSTRIAL PROCESS:

REDUCED HAZARDOUS WASTE GENERATED:                      (Tons per year)

REDUCED HAZARDOUS WASTE DISPOSED:                      (Tons per year)

PROJECT COSTS:

COST SAVINGS:

INITIAL SUBMISSION DATE:

IMPLEMENTATION COMPLETION DATE:

STATUS:

IMPLEMENTING ACTIVITY INFORMATION:

- Activity/UIC:
- Point of Contact:
- Phone Number:
- Claimant:
- PCR #:

## APPENDIX C

### HAZARDOUS WASTE MINIMIZATION QUESTIONNAIRE

1. In what areas does your activity need help in preventing pollution or hazardous waste minimization?
- Training in Hazmin/Pollution Prevention
  - Base & command awareness
  - Ability to change process specifications
  - Publicizing hazmin efforts
  - Technical support from engineering experts
  - Projects to replace existing processes
  - Contractual/technical support
  - Material substitution/HMC&M guidance
  - Recycling guidance
  - Hazardous materials reutilization store guidance
  - Access to literature about hazmin
  - A pollution prevention survey
  - Ability to sell programs within your activity
2. Which part of the activity do you work at? (i.e., Public Works, Engineering, Environmental?) Environmental.
3. How do you publicize efforts in HAZMIN to your activity. Monthly coordinators meeting, Station Newspaper (Flight Jacket) & Plan of the Day (POD).
4. Are weekly/monthly hazardous waste coordinator meetings being held with shop personnel? Monthly.
5. Do you need information on how to start a Environmental Awareness Program (HAZMIN awareness) program on your base? Yes
6. Please list ideas by anyone at your activity (request if necessary) that could be used to minimize waste or pollution?
7. May we contact you about these ideas? If yes, please provide name and number.
8. Has your activity ever used the NEESA HAZMIN Technical Library? No
9. Has your activity implemented a project based on a NEESA technical transfer document? No
10. Would you like to know more about the NAVFAC Pollution Prevention Program? Yes
11. If a HAZMIN conference with technical speakers were held by NAVFAC at your base, how many people would attend?  
100
12. Please list sources of information which your activity uses to help keep abreast of environmental issues (magazines, news letters, computer bulletin boards, trade papers, etc.) Magazines, newsletters, Regulatory Updates, NEESA correspondence, etc.
13. Are there areas in which your activity needs assistance from NEESA, NAVFAC, EFD's or other groups?

## **Appendix B**

## **COMPATIBILITY OF HAZARDOUS WASTE**

Compatibility of Hazardous Wastes

To obtain methods for determining the compatibility of HW use the following documents:

1. Title: A Method of Determining the Compatibility of Hazardous Waste, EPA/600/2-80-076  
Document #: PB No. 80-221005  
Published by: National Technical Information Service  
5285 Port Royal Rd.  
Springfield, VA 22161  
Telephone: (703) 487-4650
  
2. Title: Storage and Materials Handling  
Document #: DOD 4145.19-R-1  
Chapter: Chapter 5, Section 5-407 (Table 5)  
Published by: Department of the Army  
ATTN: DALO-SMS  
Washington, DC 20310
  
3. Title: Used Oil and Solvent Recycling Technology Transfer Manual  
Document #: NEESA 19-001A  
Published by: NEESA  
Code 112F3  
Port Hueneme, CA 93043-5014  
Telephone: (805) 982-2629

COMPATIBILITY TABLES: In the lists that follow, the mixing of a Group A material with a Group B material may have the potential consequences as noted.

Group 1-A

Acetylene Sludge  
Alkaline Caustic Liquids  
Alkaline Cleaner  
Alkaline Corrosive  
Alkaline Corrosive Battery Fluid  
Caustic Wastewater  
Lime Sludge and Other Corrosive Alkalines  
Lime Wastewater  
Lime and Water  
Spent Caustic

Group 1-B

Acid Sludge  
Acid and Water  
Battery Acid  
Chemical Cleaners  
Electrolyte, Acid  
Etching Acid Liquid or Solvent  
Pickling Liquor and Other Corrosive Acids  
Spent Acid  
Spent Mixed Acid  
Spent Sulfuric Acid

Potential Consequences: Heat generation; violent reaction.

Group 2-A

Aluminum  
Beryllium  
Calcium  
Lithium  
Magnesium  
Potassium  
Sodium  
Zinc Powder  
Other Reactive Metals and Metal Hydrides

Group 2-B

Any Waste in Group 1-A or 1-B Above

Potential Consequences: Fire or explosion; generation of flammable hydrogen gas.

Group 3-A

Alcohols  
Water

Group 3-B

Any Concentrated Waste in Group 1-A or 1-B  
Calcium  
Lithium  
Metal Hydrides  
Potassium  
SO<sub>2</sub>Cl<sub>2</sub>, SOCl<sub>2</sub>, PCl<sub>3</sub>, CH<sub>3</sub>SiCl<sub>3</sub>  
Other Water-Reactive Waste

Potential Consequences: Fire, explosion, or heat generation; generation of flammable or toxic gases.

Group 4-A

Alcohols  
Aldehydes  
Halogenated Hydrocarbons  
Nitrated Hydrocarbons  
Unsaturated Hydrocarbons  
Other Reactive Organic Compounds and Solvents

Group 4-B

Concentrated Group 1-A or Group 1-B Wastes  
Group 2-A Wastes

Potential Consequences: Fire, explosion, or violent reaction.

Group 5-A

Spent Cyanide and Sulfide  
Solutions

Group 5-B

Group 1-B Wastes

Potential Consequences: Generation of toxic hydrogen cyanide or hydrogen sulfide gas.

Group 6-A

Chlorates  
Chlorine  
Chlorites  
Chromic Acid  
Hyphochlorites  
Wastes  
Nitric Acid, Fuming  
Perchlorates  
Permanganates  
Peroxides  
Other Strong Oxidizers

Group 6-B

Acetic Acid and Other Organic Acids  
Concentrated Mineral Acids  
Group 2-A Wastes  
Group 4-A Wastes  
Other Flammable and Combustible Nitrates

Potential Consequences: Fire, explosion, or violent reaction.

**HAZARDOUS WASTE LABEL**

REQUIRED FOR TRANSPORTATION

REQUIRED FOR STORAGE

# HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.  
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY  
OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES.

GENERATOR INFORMATION:

NAME MCAS EL TORO

ADDRESS (UNIT NAME) \_\_\_\_\_ PHONE 714 726 3705

CITY SANTA ANA STATE CA ZIP 92709

EPA / MANIFEST ID NO. / DOCUMENT NO. CA 6170023208 / \_\_\_\_\_

EPA WASTE NO. 2001, 0035 CA ACCUMULATION WASTE NO. \_\_\_\_\_ START DATE (START DATE) \_\_\_\_\_

CONTENTS, COMPOSITION: NAPHTHA WITH PAINT SOLVENTS

PHYSICAL STATE: \_\_\_\_\_ HAZARDOUS PROPERTIES:  FLAMMABLE  TOXIC  
 SOLID  LIQUID  CORROSIVE  REACTIVITY  OTHER \_\_\_\_\_

UN 1993  
\_\_\_\_\_  
\_\_\_\_\_  
D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

## HANDLE WITH CARE!

STYLE WAC68

# DRUM LABELING REQUIREMENTS

## 1. Hazardous Waste

All drums containing hazardous waste must be labeled "HAZARDOUS WASTE"

## 2. Identity of Waste

Example: 10% paint ;10% MEK  
Contaminated JP-5

## 3. Hazard Class

Example: Flammable  
Corrosive

## 4. Squadron Name

Example: MALS 11, Cryogenics

## 5. Station

Example: MCAS El Toro

## 6. Date of Accumulation

Include: (a) date the FIRST drop of hazardous waste is placed in the drum;and  
(b) date the drum is full.

**49 CFR 172.101 HAZARDOUS MATERIALS TABLE  
(Example Page)**

**DOT requirements for labeling and packaging hazardous materials**

### §172.101 Hazardous Materials Table

§172.101

(1)  + / A / W	(2)  Hazardous materials descriptions and proper shipping names	(3)  Hazard class	(3A)  Identifi- cation number	(4)  Label(s) required (if not excepted)	(5)  Packaging		(6)  Maximum net quantity in one package		(7)  Water shipments			
					(a)  Exceptions	(b)  Specific require- ments	(a)  Passenger carrying aircraft or railcar	(b)  Cargo only aircraft	(a)  Cargo vessel	(b)  Pas- senger vessel	(c)  Other requirements	
A	Accumulator, pressurized ( <i>pneumatic or hydraulic</i> ), containing nonflammable gas	Nonflammable gas	NA1958	Nonflammable gas	173 306		No limit	No limit	1,2	1,2		
	Acetal	Flammable liquid	UN1088	Flammable liquid	173 118	173 119	1 quart	10 gallons	1,3	4		
	Acetaldehyde ( <i>ethyl aldehyde</i> )	Flammable liquid	UN1089	Flammable liquid	None	173 119	Forbidden	10 gallons	1,3	5		
	Acetaldehyde ammonia	ORM-A	UN1841	None	173 505	173 510	No limit	No limit	1,2	1,2		
	Acetic acid ( <i>aqueous solution</i> )	Corrosive material	UN2780	Corrosive	173 244	173 245	1 quart	10 gallons	1,2	1,2	Stow separate from nitric acid or oxidizing materials	
	Acetic acid, glacial	Corrosive material	UN2780	Corrosive	173 244	173 245	1 quart	10 gallons	1,2	1,2	Stow separate from nitric acid or oxidizing materials	
	Acetic anhydride	Corrosive material	UN1715	Corrosive	173 244	173 245	1 quart	1 gallon	1,2	1,2		
	Acetone	Flammable liquid	UN1060	Flammable liquid	173 118	173 119	1 quart	10 gallons	1,3	4		
	Acetone cyanohydrin	Poison B	UN1541	Poison	None	173 346 173 3a	Forbidden	55 gallons	1	5	Shade from radiant heat. Stow away from corrosive materials	
	Acetone oil	Flammable liquid	UN1091	Flammable liquid	173 118	173 119	1 quart	10 gallons	1,2	1		
	Acetonitrile	Flammable liquid	NA1848	Flammable liquid	173 118	173 119	1 quart	10 gallons	1	4	Shade from radiant heat	
	Acetyl acetone peroxide, in solution with not more than 9% by weight active oxygen. See Organic peroxide, liquid or solution, n.o.s.			UN2060								
	Acetyl acetone peroxide with more than 9% by weight active oxygen	Forbidden										
	Acetyl benzoyl peroxide, not more than 40% in solution. See Acetyl benzoyl peroxide solution, not over 40% peroxide			UN2061								
	Acetyl benzoyl peroxide, solid, or more than 40% in solution	Forbidden										
Acetyl benzoyl peroxide solution, not over 40% peroxide	Organic peroxide		UN2081	Organic peroxide	None	173 222	Forbidden	1 quart	1,2	1		
Acetyl bromide	Corrosive material		UN1716	Corrosive	173 244	173 247	1 quart	1 gallon	1	1	Keep dry. Glass carboys not permitted on passenger vessels	
Acetyl chloride	Flammable liquid		UN1717	Flammable liquid	173 244	173 247	1 quart	1 gallon	1	1	Stow away from alcohols. Keep cool and dry. Separate longitudinally by an intervening complete compartment or hold from explosives	

112

THE 49—Transportation

## **Appendix C**

**MCAS EL TORO**  
**HAZARDOUS WASTE ACCUMULATION POINT (SITE)**  
**MANAGEMENT PLAN**

Hazardous Waste Accumulation Site  
Management Plan

## SAMPLE HAZARDOUS WASTE ACCUMULATION SITE MANAGEMENT PLAN

(As referenced in Chapter 7)

1. Purpose. To control and manage the collection of hazardous waste products and oily waste products in accordance with environmental regulations, establish formal waste stream analysis at each 90- day hazardous waste accumulation site (HWAS), and to provide adequate training for personnel that use the HWASs; all consistent with the significance placed on the program by the various regulatory agencies.
2. Scope. Applicable to all tenant commands and NAS departments operating the HWASs listed in Chapter 6.
3. Background. Hazardous waste accumulation/disposal and oily waste accumulation/disposal are significant problems which receive regular compliance inspections by various federal, state and local agencies, as well as higher Navy echelons. HWAS operations must be in compliance with all applicable state and federal statutes. Noncompliance subjects the operator and activity to citations, fines, and/or litigation.
4. Action.
  - a. Hazardous Material/Hazardous Waste Coordinator. Each tenant command and station department operating an accumulation site will designate a commissioned officer (or GS-9/above) as the Hazardous Material/Hazardous Waste Coordinator. The function of the Hazardous

Material/Hazardous Waste Coordinator and assistant is to oversee the operation of the accumulation site and take responsibility for compliance with laws and regulations controlling accumulation of hazardous waste and oily waste.

b. Accumulation Site Key Control. The Hazardous Material/Hazardous Waste Coordinator will be responsible for the keys to the accumulation site and collection containers. The accumulation site and containers will be secured except during the deposit of wastes. The Hazardous Material/Hazardous Waste Manager will be provided with a duplicate of all keys for each accumulation site.

c. Container Labeling. The Hazardous Material/Hazardous Waste Coordinator will be responsible for the proper labeling of each container with approved labels provided by the Hazardous Material/Hazardous Waste Manager. The labels must show the date the container was put into service. It will also list the name quantities of each contained waste (to be taken from the container log). The Hazardous Material/Hazardous Waste Coordinator will ensure that only proper containers in good condition are used and that containers are stored on pallets, with wastes appropriately segregated. The HWAS is for temporary storage of designated hazardous wastes not to exceed 90 days from the date the container was put into service.

d. HWAS Accumulation Site Log. The Hazardous Material/Hazardous Waste Coordinator will ensure proper maintenance of the collection log for the accumulation site as follows:

1. The date and time the key is checked out and turned in will be recorded in the log by the issuing person.
2. The type and amount of waste deposited will be recorded in the log.
3. The name of the person depositing the waste will be recorded in the log and initialed by the person issuing the log and keys.

There will be a continuous log for the HWAS. A sample log is shown in Figure 7-3. Note: All line items listed in the log are to be completed.

e. Hazardous Waste Collection Container Log. The Hazardous Material/Hazardous Waste Coordinator will maintain a log for each container in the accumulation site. This log will remain with the HWAS log throughout the collection process and will be attached to the drum with the DD 1348-1 form during the disposal process. The container log will show the date and time of the depositing action, the name of the person depositing the waste, the type and quantity of waste deposited, and signature of the Hazardous Material/Hazardous Waste Coordinator or assistant. The Hazardous Waste Collection Log will be filed at the TSD facility so an accurate hazardous waste inventory can be maintained. A sample container log is shown as Figure C-1.

f. Turn-in Document.

(1) As each container of hazardous waste becomes full, or approaches the 90-day time limit, the Hazardous Material/Hazardous Waste Coordinator will execute a DD 1348-1 turn-in document and contact the Environmental Department to arrange pickup of the hazardous waste container and receive a replacement container.

(2) The Hazardous Material/Hazardous Waste Coordinator will execute a DD 1348-1 Turn-in Document and contact the fuel farm to arrange for the pumping out of waste oil containers from oily waste accumulation sites.

g. Safety and Clean-Up. The responsible activity will maintain the HWAS in an appropriate manner. This will include, but is not limited to, (1) the cleanup of spills under the direction of a representative from the Environmental Department, and (2) the maintenance of an inventory of safety and cleanup materials to be kept on hand.

h. Inspections. The HWAS, HWAS log, and the hazardous waste collection container log are required by federal and state regulations to be inspected at least once a week. These inspections will be conducted by the Hazardous Material/Hazardous Waste Coordinator or assistant. Figure 7-4 is a copy of the required Hazardous Waste Accumulation Site Weekly Inspection Record. All areas listed on the log need to be completed by the inspector. A quarterly inspection log, shown in Figure C-2, will be completed and filed with the Environmental Director.

The HWAS, HWAS log, and the hazardous waste collection container log are subject to weekly inspections by the Hazardous Material/Hazardous Waste Manager and periodic (unannounced) inspections by regulatory agencies such as EPA, OSHA.

i. Training.

(1) The Hazardous Material/Hazardous Waste Coordinator and assistants are required to have a minimum of 24 hours of hazardous waste training with 8 hours refresher course annually. This training will be provided by the Station's Environmental Department.

(2) Personnel using the HWASs are required to have on-the-job training. The Hazardous Material/Hazardous Waste Coordinator assigned to each HWAS will provide this training to all personnel using the site. Training records will be maintained by the Hazardous Material/Hazardous Waste Coordinators for individuals using the HWASs.



QUARTERLY HAZARDOUS WASTE/HAZARDOUS MATERIAL INSPECTION CHECKLIST

ORGANIZATION/ACTIVITY: \_\_\_\_\_ DATE: \_\_\_\_\_

HW SITE NO: \_\_\_\_\_ NEAR BUILDING NUMBER: \_\_\_\_\_ TIME: \_\_\_\_\_

PERSONNEL LISTED BELOW, AND PRESENT AT INSPECTION,  
MUST INITIAL AFTER THEIR NAME.

	INITIAL	PHONE
POINT OF CONTACT: _____	_____	_____
HM/HW MGR: _____	_____	_____
HM/HW COORD: _____	_____	_____
HM/HW COORD: _____	_____	_____
GROUP HM/HW MGR: _____	_____	_____

- REFERENCES:
- (a) 29 CODE OF FEDERAL REGULATIONS
  - (b) 40 CODE OF FEDERAL REGULATIONS 265
  - (c) 49 CODE OF FEDERAL REGULATIONS
  - (d) 22 CALIFORNIA CODE OF REGULATIONS
  - (e) UNIFORM FIRE CODE
  - (f) ABO 5090.1B

NEGATIVE RESPONSES INDICATE IMMEDIATE CORRECTIVE ACTION NECESSARY.

	<u>CIRCLE</u>	<u>COMMENTS</u>
1. Was organization/activity aware this inspection was to be conducted?	Y    N	

TRAINING AND RECORDS

2. Is a hazardous waste manager designated in writing?	Y    N
Has the HW manager attended a 24 hour training course?	Y    N

ENCLOSURE (1)

- Has the HW manager received 8 hours of refresher training, annually, since completion of 24 hour training? Y N
3. Is a hazardous waste coordinator designated, in writing for each shift? Y N
- Have all HW coordinators attended a 24 hour training course? Y N
- Have all HW coordinators received 8 hours of refresher training, annually, since completion of 24 hour training? Y N
4. Is a training record, including the items below, maintained for each HW personnel? (Record must be maintained for 3 years after personnel leaves.)
- |                             |   |   |
|-----------------------------|---|---|
| job title                   | Y | N |
| job description             | Y | N |
| name of person doing job    | Y | N |
| record of previous training | Y | N |
| plans for future training   | Y | N |
5. Are new personnel trained within 90 days of starting HW position and supervised until trained? Y N
6. Does organization/activity have a comprehensive Hazard Communication Program, as required by 29 CFR 1910.1200 (h), for all personnel who may be exposed to chemicals in the workplace. Y N
7. Has a representative from the organization/activity attended the last 3 monthly HW meetings? Y N

ENCLOSURE (1)

- |     |   |   |   |
|-----|---|---|---|
| 8.  | Has the organization/activity had an environmental brief in the last 4 months?  | Y | N |
| 9.  | Does the HW manager and HW coordinator have a copy of ABO 5090.1B?  | Y | N |
| 10. | Does organization/activity have written approval, from the Environmental Department for its 90-day HW accumulation site?                    | Y | N |
| 11. | Has the accumulation site been inspected? (Records to be maintained for 3 years and stay with site, not unit. Receive or turnover records.) |   |   |
|     | daily   | Y | N |
|     | weekly  | Y | N |
|     | quarterly   | Y | N |
|     | afterstorm/high winds/ earthquake   | Y | N |
| 12. | Have Hazardous Material Reports been submitted quarterly?   | Y | N |
| 13. | Are all spills and their cleanup, occurring throughout organization/activity area, documented?  | Y | N |
| 14. | Are all records readily available for review?   | Y | N |

90-DAY HAZARDOUS WASTE ACCUMULATION SITES

- |     |  |   |   |
|-----|--|---|---|
| 15. | Is there a 20 ft clearance maintained around the site? | Y | N |
| 16. | Are berms/dikes/secondary containments:                |   |   |
|     | in good repair   | Y | N |

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designed to contain 10% of the total volume of HW on site or 110% of the largest container in site (whichever is greater)	Y	N
compatible with HW in site	Y	N
17. Is there adequate aisle space for unobstructed movement?	Y	N
18. Are the following signs posted, durable and clear?		
"HAZARDOUS WASTE AREA"	Y	N
"UNIT NAME"	Y	N
"SITE NUMBER"	Y	N
"NO SMOKING"	Y	N
"INTERNAL ALARM"	Y	N
"EXTERNAL ALARM"	Y	N
"CONTINGENCY PLAN" (with location must be near site)	Y	N
19. Is the following equipment appropriate, functioning and readily accessible at the hazardous waste site?		
internal alarm (whistle, horn, etc.)	Y	N
external alarm (firepull box or phone or sign giving specific directions to nearest one - must be near site)	Y	N
fire extinguisher (current tag - Tustin only)	Y	N
safety shower/eyewash (clean/current tag)	Y	N
station contingency plan	Y	N
site specific contingency plan	Y	N

ENCLOSURE (1)



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22. Are hazardous wastes containers properly segregated for compatibility, i.e. flammables, corrosives, etc. Do not share common first or secondary containment? Y N
23. Is area/sump free of:
- |                     |   |   |
|---------------------|---|---|
| hazardous materials | Y | N |
| clutter             | Y | N |
| dirt and debris     | Y | N |
| water               | Y | N |
| leaks and spills    | Y | N |
| broken pallets      | Y | N |
24. Are all HW under 90 days old? Y N

#### CONTAINERS

25. Are containers DOT approved for HW and the HW they contain? Y N
- |  |   |   |
|--|---|---|
| liquids in closed head drums   | Y | N |
| solids in open head drums  | Y | N |
| compatible with waste, i.e. corrosives in polyethylene or properly lined containers? | Y | N |
26. Are 55 gallon or smaller containers being used (85 gallon is for overpack only)? Y N
27. Are all containers sound and free of:
- |   |   |   |
|---|---|---|
| free product or residue (top and sides) | Y | N |
| water                                   | Y | N |
| significant rust                        | Y | N |
| significant dents                       | Y | N |

ENCLOSURE (1)

28. Except when HW is being added or removed, are all containers tightly closed:
- |                                       |   |   |
|---------------------------------------|---|---|
| bungs cannot be opened by hand        | Y | N |
| bolts are down and rings pulled tight | Y | N |

MARKINGS

29. Are all drum markings? Drum No.
- |                             |   |   |       |
|-----------------------------|---|---|-------|
| readable                    | Y | N | _____ |
| durable                     | Y | N | _____ |
| in English                  | Y | N | _____ |
| correct for waste contained | Y | N | _____ |
- Sticker complete with:
- |                            |   |   |       |
|----------------------------|---|---|-------|
| label number               | Y | N | _____ |
| generator name             | Y | N | _____ |
| EPA number                 | Y | N | _____ |
| address (Unit)             | Y | N | _____ |
| city                       | Y | N | _____ |
| state                      | Y | N | _____ |
| zip                        | Y | N | _____ |
| shipping name              | Y | N | _____ |
| hazard class               | Y | N | _____ |
| constituents               | Y | N | _____ |
| UN/NA number               | Y | N | _____ |
| EPA waste code             | Y | N | _____ |
| how waste was generated    | Y | N | _____ |
| common name                | Y | N | _____ |
| date of accumulation       | Y | N | _____ |
| liquid/solid/gas           | Y | N | _____ |
| packaging group            | Y | N | _____ |
| emergency response guide # | Y | N | _____ |
| safety equipment           | Y | N | _____ |
| reportable quantity        | Y | N | _____ |
- Complete with required painted information
- |  |   |   |       |
|--|---|---|-------|
| Complete with required painted information | Y | N | _____ |
|--|---|---|-------|
30. Is container free of conflicting information? \_\_\_\_\_
- |   |   |   |       |
|---|---|---|-------|
| Is container free of conflicting information? | Y | N | _____ |
|---|---|---|-------|

HAZARDOUS MATERIAL AREAS

31. Is there a 50 ft clearance maintained around the site? Y N
32. Are all hazardous materials stored within a berm if soil or drains may be potentially effected? Y N
33. Are berms/dikes/secondary containments:
- in good repair Y N
  - designed to contain 10% of the total volume of HM in area or 110% of the largest container in area whichever is greater) Y N
  - compatible with HM in area Y N
34. Is there 3 feet of aisle space for unobstructed movement? Y N
35. Are the following signs posted, durable and clear?
- "HAZARDOUS MATERIAL AREA" Y N
  - "UNIT NAME" Y N
  - "NO SMOKING" Y N
  - "INTERNAL ALARM" Y N
  - "EXTERNAL ALARM" Y N
  - "CONTINGENCY PLAN" (with location must be near area) Y N
36. Is the following equipment functioning, appropriate and readily accessible at the hazardous material area?
- internal alarm (whistle, horn, etc.) Y N
  - external alarm Y N

ENCLOSURE (1)

- |  |   |   |
|--|---|---|
| (firepull box or phone<br>or sign giving specific<br>directions to nearest<br>one - must be near site)                                     |   |   |
| fire extinguisher  | Y | N |
| (current tag - Tustin only)  |   |   |
| safety shower/eyewash  | Y | N |
| (clean/current tag)  |   |   |
| station contingency plan   | Y | N |
| site specific contingency<br>plan  | Y | N |
| 37. Is spill equipment:  |   |   |
| properly identified  | Y | N |
| readily available  | Y | N |
| properly stored  | Y | N |
| appropriate for HM in area   | Y | N |
| in good condition  | Y | N |
| 38. Is personal protective<br>equipment:   |   |   |
| properly identified  | Y | N |
| readily available  | Y | N |
| properly stored  | Y | N |
| appropriate for HM in area   | Y | N |
| in good condition  | Y | N |
| 39. Are hazardous material<br>containers:  |   |   |
| properly segregated for<br>compatibility, i.e.<br>flammables, corrosives,<br>etc. Do not share common<br>first or secondary<br>containment | Y | N |
| well organized   | Y | N |
| 40. Is area/sump free of?  |   |   |
| hazardous waste  | Y | N |
| clutter  | Y | N |
| dirt and debris  | Y | N |
| water  | Y | N |
| leaks and spills   | Y | N |
| broken pallets   | Y | N |

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- |     |  |   |   |
|-----|--|---|---|
| 41. | Are all containers properly labeled?   | Y | N |
| 42. | Are all containers tightly closed?   | Y | N |
| 43. | Are all containers sound and free of:  |   |   |
|     | free product or residue (top and sides)  | Y | N |
|     | water  | Y | N |
|     | significant rust   | Y | N |
|     | significant dents  | Y | N |
|     | an expired shelf life  | Y | N |
| 44. | Are the shelf lives on hazardous materials being extended as allowed by regulations?                       | Y | N |
| 45. | Are hazardous materials, with a shelf life that can no longer be extended, being disposed of through DRMO? | Y | N |
| 46. | Are MSDS' readily accessible for all hazardous materials?  | Y | N |
| 47. | Are all personnel familiar with the use of MSDS'?  | Y | N |

WORK AREAS

- |     |   |   |   |
|-----|---|---|---|
| 48. | Are work areas free of HW?                | Y | N |
| 49. | Are all HM containers:                    |   |   |
|     | properly labeled                          | Y | N |
|     | containers closed tightly when not in use | Y | N |

ALL AREAS

- |     |   |  |  |
|-----|---|--|--|
| 50. | Are all HM/HW being disposed of properly: |  |  |
|-----|---|--|--|

ENCLOSURE (1)

trash cans free of HM/HW	Y	N
dumpsters free of HM/HW	Y	N
drains free of HM/HW	Y	N
51. Are all areas, not designated HM/HW areas, free of HM/HW?	Y	N
52. Are all areas free of HM/HW containers being air dried?	Y	N
Leaks and spills?	Y	N

ADDITIONAL COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
INSPECTOR'S NAME PRINTED      INSPECTOR'S SIGNATURE      PHONE

DAILY INSPECTION SCHEDULE FOR HAZARDOUS WASTE ACCUMULATION AREAS

Unit \_\_\_\_\_

1. Is the area free of leaks and spills?

Yes \_\_\_\_\_

No\* \_\_\_\_\_

Remarks: \_\_\_\_\_

2. Are all containers properly closed?

Yes \_\_\_\_\_

No\* \_\_\_\_\_

Remarks: \_\_\_\_\_

\*If no, provide statement of corrective action below and contact FMD Environmental Office at ext. 2821:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_

Time \_\_\_\_\_

Name and grade of inspector: \_\_\_\_\_

\_\_\_\_\_  
Signature

3 Apr 90

WEEKLY INSPECTION SCHEDULE FOR HAZARDOUS WASTE ACCUMULATION AREAS

Unit \_\_\_\_\_

	Yes	No*
1. Are drums properly labeled?	_____	_____
2. Is there secondary containment?	_____	_____
3. Are wastes segregated properly?	_____	_____
4. Is all emergency equipment available?	_____	_____
5. Are approved containers in use?	_____	_____
6. Is storage area free of debris?	_____	_____
7. Are containers compatible with wastes?	_____	_____
8. Are containers in good condition?	_____	_____

\*If no, provide statement of corrective action below and contact FMD Environmental Office at ext. 2821.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Remarks:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

\_\_\_\_\_  
Name and Grade of Inspector

\_\_\_\_\_  
Signature

3 Apr 90

QUARTERLY INSPECTION SCHEDULE  
FOR HAZARDOUS WASTE ACCUMULATION AREAS

Unit \_\_\_\_\_

	Yes	No*
1. Fire extinguisher operative?	_____	_____

\*If no, contact the Station's Fire Dept (ET-3919, T-7225):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

	+Yes	No*
2. Internal alarm system operative?	_____	_____
3. External Alarm system operative?	_____	_____
4. Safety shower operative?	_____	_____
5. Eyewash operative?	_____	_____
6. Spill control equipment adequate?	_____	_____

+If yes, perform all required maintenance and provide a statement of these actions below:

\_\_\_\_\_  
\_\_\_\_\_

\*If no, provide a statement of corrective action below (after equipment is operative, perform all required maintenance):

\_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_

Time \_\_\_\_\_

\_\_\_\_\_  
Name and Grade of Inspector

\_\_\_\_\_  
Signature

ENCLOSURE (7)

AFTER-STORMS/HIGH WIND INSPECTION SCHEDULE  
FOR HAZARDOUS WASTE ACCUMULATION AREAS

Unit \_\_\_\_\_

1. Are containers upright and secure? Yes \_\_\_\_\_ No\* \_\_\_\_\_

\*If no, provide statement of corrective action below and contact FMD Environmental Office at ext. 2821:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date \_\_\_\_\_  
Time \_\_\_\_\_

\_\_\_\_\_  
Name and Grade of Inspector

\_\_\_\_\_  
Signature



3 Apr 90

## HAZARDOUS WASTE CONTAINERS, CLEANUP AND DISPOSAL MATERIALS

<u>TYPE</u>	<u>NSN</u>	<u>ITEM DESCRIPTION</u>
Drum	8110-00-030-7780	Steel, 16 gauge, 55 gal, removable cover/w/lock ring, enamel outside surface treatment.
Drum	8110-00-292-9783	Steel, 18 gauge, 55 gal, enamel exterior treatment, B/V.
Drum (overpack)	8110-01-101-4056	Hazardous material recovery, 85 gal, open head, 16 gauge reusable, epoxy phenolic lining.
Drum (overpack)	8110-01-101-4055	Hazardous material recovery 85 gal, open head, 16 gauge, disposal only, no lining, not suitable for storage.
Absorbent Compound	7930-00-269-1272	Kitty litter, 50 lb. bag.
Absorbent Compound	7930-01-145-5797	Safestep, 25 lb. bag.
Absorbent Compound	7930-01-154-7001	Safestep, 1000 lb. skid.
Bung Wrench	5120-00-244-4389	Multiple size wrench for opening/closing bung covers on drums.
Funnel	7240-00-244-1206	General purpose (2 gal) w/screen

ENCLOSURE (10)

SAMPLE REQUEST FOR SITE APPROVAL FOR HAZARDOUS WASTE SITE  
ACCUMULATION AREA

UNITED STATES MARINE CORPS  
Marine Corps Air Station  
El Toro (Santa Ana), California 92709-5001

6280  
1JG.60

MEMORANDUM

From: Hazardous Waste Coordinator \_\_\_\_\_  
To: Fire Department, MCAS \_\_\_\_\_  
Via: Environmental Director, Facilities Management Department (Code  
1JG)

Subj: REQUEST FOR SITE APPROVAL FOR A HAZARDOUS WASTE SITE  
ACCUMULATION AREA

Ref: (a) ABO 5090.1

Encl: (1) Map showing proposed site location

1. Per the reference, request approval to establish a hazardous waste accumulation area at the site shown in the enclosure. The following is a list of hazardous waste which will be stored within the area.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. POC is \_\_\_\_\_ at \_\_\_\_\_.

From: Environmental Director, Facilities Management Department (Code  
1JG)  
To: Fire Department, MCAS \_\_\_\_\_

1. Recommend approval/disapproval of request.

\_\_\_\_\_  
-----  
From: Fire Department, MCAS \_\_\_\_\_  
To: Hazardous Waste Coordinator \_\_\_\_\_

1. Request has been approved/disapproved.
2. Site # \_\_\_\_\_ has been assigned to this area.
3. Additional Comments: \_\_\_\_\_

Copy to: 1JG

ENCLOSURE (12)

REQUIREMENTS FOR HAZARDOUS WASTE ACCUMULATION AREAS

I. DRUM MANAGEMENT

- A. PROPER LABELING ON ALL DRUMS WITH PAINT
  - 1. THE WORDS "HAZARDOUS WASTE"
  - 2. IDENTIFICATION OF WASTE AND NSN
  - 3. HAZARD CLASS (FLAMMABLE, CORROSIVE, ETC.)
  - 4. UNIT AND STATION
  - 5. ACCUMULATION DATE (FIRST DROP OF WASTE)
- B. DRUMS CLOSED EXCEPT WHEN FILLING
- C. NO HW ON TOP OR SIDES OF DRUM
- D. NO STACKING OF DRUMS

II. EMERGENCY EQUIPMENT

- A. INTERNAL ALARM SYSTEM (CHIME, HORN, ETC.)
- B. EXTERNAL ALARM SYSTEM (TELEPHONE, ALARM BOX, ETC.)
- C. FIRE EXTINGUISHER
- D. SPILL CONTROL EQUIPMENT\* (BROOM, SHOVEL, OVERPACK, SAFESTEP)
- E. SAFETY SHOWER
- F. EYEWASH
- G. COPY OF STATION'S CONTINGENCY PLAN
- H. SIGNS (NO SMOKING, ETC.)

III. INSPECTIONS

- A. DAILY
- B. WEEKLY
- C. MONTHLY
- D. AFTER-STORM

\* IN THE EVENT OF A HW SPILL CALL "9-911"

\* FOR FURTHER INFORMATION OR QUESTIONS, CALL EXT. 6606 (MCAS EL TORO) OR EXT. 7716 (MCAS TUSTIN).

ENCLOSURE (13)

SAMPLE REQUEST FOR FIRE EXTINGUISHER(S)

UNITED STATES MARINE CORPS  
Marine Corps Air Station  
El Toro (Santa Ana), California 92709-5001

6280  
1JG

MEMORANDUM

From: Hazardous Waste Officer \_\_\_\_\_  
To: Fire Department, MCAS \_\_\_\_\_  
Via: Environmental Director, Facilities Management Department (Code 1JG)

Subj: REQUEST FOR FIRE EXTINGUISHERS

Ref: (a) COMCABWEST ltr 6280 1JG.40 of 22 Dec 88  
(b) 40CFR 265.32

Encl: (1) Map Showing Accumulation Area

1. Per references (a) and (b), request you provide the appropriate fire extinguishers for my accumulation area. The following is a list of hazardous waste stored within my area.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Enclosure (1) identifies the location of my accumulation area.

3. POC is \_\_\_\_\_ at \_\_\_\_\_.

-----

FIRST ENDORSEMENT on \_\_\_\_\_ memo of \_\_\_\_\_

From: Environmental Director, Facilities Management Department  
To: Fire Department, MCAS \_\_\_\_\_

Subj: REQUEST FOR FIRE EXTINGUISHERS

1. The above request has been reviewed by my division. Recommend approval/disapproval.

MICHAEL W. REHOR

ENCLOSURE (14)

**Handling, Transfer and Disposal of  
Hazardous Materials and Hazardous Wastes**

**(ABO 5090ABBul)**



## UNITED STATES MARINE CORPS

MARINE CORPS AIR BASES WESTERN AREA EL TORO  
PO BOX 95001  
SANTA ANA CA 92709-5001

Canc: Jan 94

ABBu1 5090  
1AU/150  
17 May 93

### AIR BASES BULLETIN 5090

From: Commander

To: Distribution List

Subj: HANDLING, TRANSFER AND DISPOSAL OF HAZARDOUS MATERIALS AND  
HAZARDOUS WASTES

Ref: (a) ABO 5090.1B

Encl: (1) Quarterly Hazardous Waste/Hazardous Material  
Inspection Checklist

1. Purpose. To promulgate a Bulletin for procedures to be followed at Marine Corps Air Station (MCAS) El Toro.

2. Background. Reference (a) requires Quarterly Hazardous Waste/Hazardous Material inspections be conducted by the Station Hazardous Waste Officer. Effective immediately, enclosure (1) will be utilized during these inspections.

3. Action. The below listed policies and procedures are to be followed at MCAS El Toro. Any deviations from these instructions could lead to fines and/or incarceration.

a. Satellite Accumulation Sites. There are currently no provisions made for the correct design or requirements for satellite accumulation sites. The Environmental Department is currently looking into the idea but, at present, satellite accumulation sites are not authorized.

b. Lead Acid Batteries. These batteries are to be placed on a pallet (only one high) and either shrink wrapped or banded with non metallic bands. Pallets can be stacked two high but the batteries can only be stacked one high. There should be a piece of plywood between pallets to avoid damage to the lower pallet.

(1) A spent lead-acid battery is considered damaged if there is a possibility it could leak acid due to a crack, or if it is missing one or more caps. Damaged batteries should be stored and transported in two, six millimeter polyethylene plastic bags. Batteries in plastic bags can be stored and transported with undamaged lead acid batteries.

(2) All lead-acid batteries, damaged or undamaged, must be marked with the date the battery was taken out of service or damaged. The date must be legible and written in a weather resistant material.

(1) The water is contaminated, or believed to be contaminated, the water must be tested by the Environmental Department to determine the appropriate actions. Once tested, instructions will be given regarding containerization, labeling, and disposal.

(2) If the water is not contaminated, the water should be pumped out of the accumulation site and allowed to follow normal drainage paths.

i. Aircraft Cleaning Compounds. The following are the only Aircraft Cleaning Compounds approved for use in the South Coast Air Quality Management District area:

<u>PART NUMBER</u>		<u>NSN</u>	<u>U/I</u>	<u>SIZE</u>
MIL-C-85570	T41	6850-01-273-7482	CN	5 GAL
MIL-C-85570	T41	6850-01-273-8003	CN	15 GAL
MIL-C-85570	T41	6850-01-273-8004	DR	55 GAL
MIL-C-85570	T42	6850-01-235-0872	CN	1 GAL
MIL-C-85570	T42	6850-01-236-0128	CN	5 GAL
MIL-C-85570	T44	6850-01-235-0873	CN	5 GAL
MIL-C-85570	T45	6850-01-234-0219	CN	5 GAL
MIL-C-85570	T45	6850-01-235-7458	DR	55 GAL

4. Fines. The signing of the Federal Facilities Compliance Act of 1992 on 6 October 1992, by President Bush, allows federal, state, and local governments to fine federal facilities for solid and hazardous waste violations. These fines may be as high as \$25,000 per day, per violation and can be assessed for violations ranging from improper labeling of hazardous waste to illegal dumping of toxic chemicals. As each Commanding Officer is ultimately responsible for everything his/her unit does, so is the Commanding Officer responsible for the payment of these fines. Violations, resulting in fines, are very site specific and will be paid utilizing the unit's operating funds.

5. Concurrence. The Commanding General, 3d Marine Aircraft Wing, the Commanding Officers, Marine Aircraft Group 46, and Combat Service Support Detachment 14, concur in the provisions of this bulletin.

  
J. W. ROBBEN  
Chief of Staff

DISTRIBUTION: MCABWA: A

Copy to: 3d MAW: List 1 2 3

## **Appendix D**

**HAZARDOUS WASTES MANIFEST  
PREPARATION**

Please print or type. (Form designed for use on wire (12-pitch typewriter).

88672809 WITHIN CALIFORNIA CALL 1-800-852-7550  
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address				A. State Manifest Document Number <b>88672809</b>	
4. Generator's Phone ( )				B. State Generator's ID	
5. Transporter 1 Company Name		6. US EPA ID Number			C. State Transporter's ID
7. Transporter 2 Company Name		8. US EPA ID Number			D. Transporter's Phone
9. Designated Facility Name and Site Address		10. US EPA ID Number			E. State Transporter's ID
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt./Vol
a.		No.	Type		L Waste No.
					State
					EPA/Other
b.					State
					EPA/Other
c.					State
					EPA/Other
d.					State
					EPA/Other
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above	
				a.	b.
				c.	d.
15. Special Handling instructions and Additional information					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name			Signature		Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name			Signature		Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name			Signature		Month Day Year
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name			Signature		Month Day Year

Do Not Write Below This Line

Write: TSDf SENDS THIS COPY TO DOHS WITHIN 30 DAYS  
 To: P.O. Box 3000, Sacramento, CA 95812

DIA200-93-D-0050

DELIVERY ORDER 0054

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CA 6170023208		Manifest Document No. 31246		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address MARINE CORPS AIR STATION EL TORO P.O. BOX 95001 SANTA ANA CA 92703-5001						A. State Manifest Document Number 93061362				
4. Generator's Phone ((714) 726-4436 (SEE BOX 15))						B. State Generator's ID H7A11031610389116				
5. Transporter 1 Company Name DART TRUCKING COMPANY, INC.				6. US EPA ID Number OHD009865825		C. State Transporter's ID 400018		D. Transporter's Phone 714-822-7313		
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
9. Designated Facility Name and Site Address PETROLEUM RECYCLING CORPORATION 1835 E. 29TH STREET SIGNAL HILL, CA 90806						10. US EPA ID Number CAT080011059		G. State Facility's ID CAT080011059		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt./Vol	15. Waste Number
WASTE FLAMMABLE LIQUID, N.O.S., (NAPTHA) 3, UN1993, III						1	DM	310	P	State: 331 EPA/Other: D601
RO <sup>b</sup> WASTE FLAMMABLE LIQUID, N.O.S., (STODDARD SOLVENT) 3 UN1993 III						1	DM	556	P	State: 214 EPA/Other: D601
NON RCRA HAZARDOUS WASTE SOLID, DEBRIS						1	DM	572	P	State: 223 EPA/Other: D601
WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (METHYLENE CHLORIDE) 9 UN3082 III						0101	DM	598	P	State: 133 EPA/Other: D601, F001
14. Additional Descriptions for Materials Listed Above 932635 0003, 0007, 0007 932642 0006 932645 0001 CD STEPHENS J. C. STEPHENS CORP						K. Handling Codes for Waste Listed Above				
15. Special Handling Instructions and Additional Information 932536 0008 ERG# a.27 b.27 c.31 d.31 SEND SIGNED TSDF & CD TO: P.R.C. ATTN: WENDY JACOBUS 2651 WALNUT AVE. 24 HOUR EMERGENCY RESPONSE: 1-800-255-3924 SIGNAL HILL, CA 90806										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name DOUGLAS CHILDERS				Signature <i>[Signature]</i>		Month 11		Day 06		Year 1993
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name CHARLES TRWEIDT				Signature <i>[Signature]</i>		Month 11		Day 06		Year 1993
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month		Day		Year
19. Discrepancy Indication Space										
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name						Signature		Month		Day

DO NOT WRITE BELOW THIS LINE.

## **Instructions for Generators Completing California Hazardous Waste Manifest** (adopted from Title 22, Chapter 12, Appendix)

This form has been designed for use on a 12-pitch (elite) typewriter, a firm point pen may also be used — press down hard.

Federal and state regulations require generators and transporters of hazardous waste and owners or operators of hazardous waste treatment, storage and disposal facilities to use this form (DHS 8022-A) and, if necessary, the Continuation Sheet (EPA Form 8700-22A) for both inter- and intrastate transportation. Federal and state regulations also require generators and transporters of hazardous waste and owners or operators of hazardous waste treatment, storage and disposal facilities to complete the following information:

- Item 1: Generator's Identification Number — Manifest Document Number. Enter the generator's 12-digit identification number and the unique five-digit number assigned to the manifest (e.g., 00001) by the generator.
- Item 2: Page 1 of \_\_\_\_: Enter the total number of pages used to complete the manifest; i.e., the first page (DHS Form 8022-A) plus the number of Continuation Sheets (EPA Form 8700-22A), if any.
- Item 3: Generator's Name and Mailing Address: Enter the name and mailing address of the generator. The address should be the location that will manage the returned manifest forms.
- Item 4: Generator's Telephone Number: Enter a telephone number where an authorized agent of the generator may be reached in the event of an emergency.
- Item 5: Transporter 1 Company Name: Enter the company name of the first transporter who will transport the waste.
- Item 6: Identification Number: Enter the 12-digit identification number of the first transporter identified in Item 5.
- Item 7: Transporter 2 Company Name: If applicable, enter the company name of the second transporter who will transport the waste. If more than two transporters are used to transport the waste, use a Continuation Sheet(s) (EPA Form 8700-22A) and list the transporters in the order they will be transporting the waste.
- Item 8: Identification Number: If applicable, enter the 12-digit identification number of the second transporter identified in Item 7. If more than two transporters are used, enter each additional transporter's company name and 12-digit identification number in

Items 24-27 on the Continuation Sheet (EPA Form 8700-22A). Each Continuation Sheet has space to record two additional transporters. Every transporter used between the generator and the designated facility must be listed.

- Item 9:** Designated Facility Name and Site Address: Enter the company name and site address of the facility designated to receive the waste listed on the manifest. The address shall be the site address, which may differ from the company mailing address.
- Item 10:** Identification Number: Enter the 12-digit identification number of the designated facility identified in Item 9.
- Item 11:** U.S. DOT Description [including proper shipping name, hazard class and identification number (UN/NA)]: Enter the U.S. DOT proper shipping name, hazard class and identification number (UN/NA) for each RCRA hazardous waste as identified in Title 49 CFR Parts 171 through 177. Non-RCRA hazardous wastes which do not have a U.S. DOT description can be properly described by indicating a generic name of the waste and the phrase "Non-RCRA Hazardous Waste, Solid" or "Non-RCRA Hazardous Waste, Liquid" for solid or liquid wastes, respectively. When possible, the generic name shall be obtained from Chapter 11, Appendix X, subdivision (e) of this division. If not listed in Chapter 11, Appendix X, subdivision (e) of this division, the commonly recognized industrial name of the waste shall be used. If additional space is needed for waste descriptions, enter these additional descriptions in Item 28 on the Continuation Sheet (EPA Form 8700-22A).
- Item 12:** Containers (number and type): Enter the number of containers for each waste and the appropriate abbreviation from Table 1 (below) for the type of container:

**Table 1**  
**Types of Containers**

DM	Metal drums, barrels, kegs
DW	Wooden drums, barrels, kegs
DF	Fiberboard or plastic drums, barrels, kegs
TP	Tanks, portable
TT	Cargo tanks (tank trucks)
TC	Tank cars
DT	Dump trucks
CY	Cylinders
CM	Metal boxes, cartons, cases (including roll-offs)
CW	Wooden boxes, cartons, cases
CF	Fiber or plastic boxes, cartons, cases
BA	Burlap, cloth, paper or plastic bags

- Item 13:** Total Quantity: Enter the total quantity of waste described on each line. One decimal point may be used and shall take one character space.

**Item 14:** Unit (weight/volume): Enter the appropriate abbreviation from Table 2 (below) for the unit of measure:

**Table 2**  
**Units of Measure**

G	Gallons (liquids only)
P	Pounds
T	Tons (2,000 pounds)
Y	Cubic yards
L	Liters (liquids only)
K	Kilograms
M	Metric tons (1,000 kg)
N	Cubic meters

**Item 15:** Special Handling Instructions and Additional Information: Generators may use this space to indicate special transportation, treatment, storage or disposal information, or Bill of Lading information.

For international shipments, generators shall enter in this space the point of departure (city and state) for those shipments destined for treatment, storage or disposal outside the jurisdiction of the United States.

International Shipments — Transporter Responsibilities: Exports - Transporters shall sign and enter the date the waste left the United States in Item 15 of Form DHS 8022-A.

Imports — Shipments of hazardous waste regulated by RCRA or California Code of Regulations and transported into California from another country to a designated facility within the state shall, upon entry, be accompanied by the California Uniform Hazardous Waste Manifest. See §66263.10(c)(1).

**Item 16:** Generator's Certification: The generator shall read, sign (by hand) and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water or air) inserted in the space below. If another mode in addition to the highway mode is used, enter the appropriate additional mode (e.g., and rail) in the space below. Primary exporters shipping RCRA hazardous waste to a facility located outside of the United States shall add to the end of the first sentence of the certification the following words, "and conforms to the terms of the EPA Acknowledgement of Consent to the shipment." Generators may preprint the words, "On behalf of" in the signature block or may hand write this statement in the signature block prior to signing the generator certifications. All of the above information, except the handwritten signature required in Item 16, may be preprinted.

In signing the waste minimization certification statement, large quantity generators are certifying that they have a program in place to reduce the volume and toxicity of waste generated to the degree they have determined to be economically practicable and that they have selected the practicable method of treatment, storage or disposal currently available to them which minimizes the present and future threat to human health and the environment. Small quantity generators are certifying that they "have made a good faith effort to minimize their waste generation and have selected the best waste management method that is available to them and that they can afford."

- Item A.** State Manifest Document Number: This is a state issued document number. It may not be altered.
- Item B.** State Generator's ID: If applicable, enter your Hazardous Waste Tax Account number issued by the Board of Equalization. This a 12-character number.
- Item C.** State Transporter's ID: Enter the certificate of compliance number of the first vehicle used to transport the hazardous waste.
- Item D.** Transporter's Telephone Number: Enter the telephone number of the first transporter who will transport the waste.
- Item E.** State Transporter's ID: Enter the certificate of compliance number of the second vehicle used to transport the waste.
- Item F.** Transporter's Telephone Number: Enter the telephone number of the second transporter who will transport the waste.
- Item I.** Waste Number: Enter the California Waste Category number listed in Table 3 (below) on the back of the manifest which best identifies your waste. Also enter the appropriate federal or RCRA waste category number as listed in the table, discussed in Chapter 3 and presented in Appendix B. [22 CCR §§66261.31,.32 and .33.]



- |   |   |
|---|---|
| 441. Sulfur sludge                              | 521. Drilling mud                         |
| 451. Degreasing sludge                          | 531. Chemical toilet waste                |
| 461. Paint sludge                               | 541. Photochemicals/photoprocessing waste |
| 471. Paper sludge/pulp                          | 551. Laboratory waste chemicals           |
| 481. Tetraethyl lead sludge                     | 561. Detergent and soap                   |
| 491. Unspecified sludge waste                   | 571. Fly ash, bottom ash and retort ash   |
|   | 581. Gas scrubber waste                   |
| Miscellaneous                                   | 591. Baghouse waste                       |
| 511. Empty pesticide containers 30 gal. or more | 611. Contaminated soil from site cleanups |
| 512. Other empty containers 30 gallons or more  | 612. Household wastes                     |
| 513. Empty containers less than 30 gallons      | 613. Auto shredder waste                  |

- Item J.** Additional Descriptions: Enter chemical composition for each waste category. List components corresponding to the waste category listed (e.g., %, ppm).
- Items G,H,K.** To be completed by TSDf operator.
- Item G.** State Facilities ID: Enter identification number.
- Item H.** Facility's Telephone Number: Enter facility telephone number.
- Item K.** Handling Codes: Enter waste handling code(s). Select appropriate code(s) from Table 4 on the back of the manifest (see below).

**Table 4**

01 Recycle	06 Surface Impoundment	15 Tank Treatment
02 Injection Well	07 Thermal Treatment	16 Treatment Pond
03 Landfill	(Includes Incineration)	(Excludes Evaporation)
04 Land Application	14 Transfer Station	99 Other

As discussed later in this chapter, it is essential that the generator knows what method of treatment or disposal (handling code) will be used for its wastes. This decision requires knowledge of the properties of the waste, regulatory requirements and destination facility capability. However, this decision greatly influences the costs and potential liability which the generator faces.

## **Appendix E**

**TRAINING PROGRAM**

**MARINE CORPS AIR STATION ELTORO**



**HAZARDOUS WASTE TRAINING PROGRAM**

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## **HAZARDOUS WASTE FACILITY TRAINING PROGRAM**

### **INTRODUCTION:**

This document formally establishes the Marine Corps Air Station El Toro Hazardous Wastes Operations Training Program. The training program is based on recommendations developed by the Navy Energy and Environmental Support Activity (NEESA) found in NEESA Document 15-028. The intent of the training program is to instruct personnel involved in hazardous waste management to perform their duties in such a way that is safe and ensures facility compliance with environmental regulations.

### **SCOPE:**

Instruction will be provided by, but not limited to, the following agencies:

Navy Energy and Environmental Support Activity

University of California, Irvine - Hazardous Substance Management Certificate Program  
Facilities Management Department, Environmental Division

MCAS El Toro Branch Clinic, Industrial Hygiene

MCAS El Toro Ground Safety

Third Marine Air Wing, Safety Department

Training will be given to all personnel involved in hazardous waste management. At a minimum training will be designed to ensure that facility personnel are able to handle, transfer, and store hazardous wastes safely and are capable to respond effectively to emergencies. Personnel will be familiarized with local emergency procedures, emergency equipment, and contingency planning.

Descriptions will be established for each position related to hazardous waste management which will include qualifications and responsibilities, introductory and continuing training, and certification of training. Personnel will be given training within six months of assignment or will not work unsupervised until training has been provided.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Material/Hazardous Waste Officer (Wing Level)

**DESCRIPTION:** Appointment made by the respective commander to oversee hazardous waste operations for their respective command operations.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Be familiar with their command operations.
3. Possess knowledge of proper hazardous waste handling and storage requirements.
4. Be familiar with station disposal procedures.

### **RESPONSIBILITIES:**

1. Inspection of each generation site quarterly, annotate deficiencies and forward them to the Environmental Division.
2. Notify the Environmental Division of any deployments or transitions.
3. Act as liaison to the Environmental Division on the environmental matters.
4. Attend Environmental Protection Committee meetings.

## **TRAINING REQUIREMENTS:**

Hazardous material/hazardous waste officers will be given an overview in the following areas:

Laws and Regulations

Health Effects

Environmental Effects

Handling

Packaging

Marking and Labeling

Placarding

Protective Clothing

Respiratory Protection

Storage Techniques

Information Sources

Fire/Explosion Response

Emergency Response

Contingency Planning

Site Specific System

Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Material/Hazardous Waste Monitor (Group Level)

**DESIGNATION:** Appointment made by the group commanding officer to monitor all hazardous waste operations for the group.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Be familiar with their group operations.
3. Possess knowledge of proper hazardous waste handling and storage requirements.
4. Be familiar with station disposal procedures.

### **RESPONSIBILITIES:**

1. To ensure that all generators within the group are managing their accumulation areas in compliance with environmental regulations.
2. Inspection of each accumulation site monthly, annotate deficiencies and forward inspection reports to the Environmental Division.
3. Act as liaison to the Environmental Division on all environmental matters.
4. Attend Environmental Protection Committee meetings.

## **TRAINING REQUIREMENTS:**

Hazardous material/hazardous waste monitors will be given an overview in the following areas:

Laws and Regulations

Health Effects

Environmental Effects

Handling

Packaging

Marking and Labeling

Placarding

Protective Clothing

Respiratory Protection

Storage Techniques

Information Sources

Fire/Explosion Response

Emergency Response

Contingency Planning

Site Specific System

Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Material/Hazardous Waste Manager (Squadron Level)

**DESIGNATION:** Appointment made by the commanding officer of the squadron to a member of the safety office.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Be familiar with squadron maintenance operations.
3. Possess a knowledge of proper hazardous material handling, dispensing, and storage.
4. Possess knowledge of proper labeling, handling, and storage of hazardous waste.
5. Possess knowledge of station disposal policies.
6. Possess knowledge of hazard communication requirements.

### **RESPONSIBILITIES:**

1. Inspect accumulation areas for compliance with environmental regulations.
2. Compile a complete list of all hazardous materials used at the squadron and update it whenever necessary. Forward this list to the Environmental Division.
3. Maintain copies of all Material Safety Data Sheets (MSDS) for all hazardous

materials used in the squadron.

4. Conduct hazard communication training as often as necessary for compliance with regulations and safety.
5. Attend Environmental Protection Committee meetings.

### **TRAINING REQUIREMENTS:**

Hazardous material/hazardous waste managers will be given an overview of the following areas:

Law and Regulations

Health Effects

Environmental Effects

Packaging

Protection Clothing

Hazardous material/hazardous waste managers will be give detailed training in the following areas:

Handling

Marking and Labeling

Placarding

Protective Clothing

Respiratory Protection

Storage Techniques

Information Sources

Fire/Explosion Response

Emergency Response

Contingency Planning

Site Specific System

Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training with practical application. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Material/Hazardous Waste Coordinators (Squadron Level)

**DESIGNATION:** Appointment made by the commanding officer of the squadron to a member of the maintenance staff.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Be familiar with squadron maintenance operations.
3. Possess a knowledge of proper hazardous material handling, dispensing, and storage.
4. Possess knowledge of proper labeling, handling, and storage of hazardous waste.
5. Possess knowledge of station disposal policies.

### **RESPONSIBILITIES:**

1. Ensure all drums of hazardous materials are handled, labeled and stored correctly.
2. Inspect hazardous material and hazardous waste storage areas daily.
3. Inspect hazardous waste areas weekly using the approved checklist.
4. Coordinate all hazardous material/hazardous waste matters with the Environmental Division.

5. Attend Environmental Protection Committee meetings.

**TRAINING REQUIREMENTS:**

Hazardous material/hazardous waste coordinators will be given an overview of the following areas:

Laws and Regulations

Health Effects

Environmental Effects

Packaging

Protective Clothing

Hazardous material/hazardous waste coordinators will be given detailed training in the following areas:

Handling

Marking and Labeling

Placarding

Respiratory Protection

Storage Techniques

Information Sources

Fire/Explosion Response

Emergency Response

Contingency Planning

Site Specific Systems

Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training with practical application. Continuing training will be given at least

annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Material/Hazardous Waste Packagers

**DESIGNATION:** Supply department personnel whose work is packaging hazardous materials for disbursing and handling damaged, hazardous materials appropriately.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of hazardous material packaging, labeling, and storage requirements.
3. Possess knowledge of hazardous material compatibility and segregation requirements.
4. Understand department of transportation shipping requirements.
5. Understand proper handling, storage, and disposal procedures for hazardous waste.

### **RESPONSIBILITIES:**

1. Ensure hazardous materials are labeled, handled, packaged, stored, and shipped properly.
2. Ensure damaged hazardous materials are handled as hazardous waste.
3. Ensure hazardous wastes are labeled, handled, stored, and disposed of properly.

4. Use material safety data sheets appropriately.

#### **TRAINING REQUIREMENTS:**

Hazardous material/hazardous waste packagers will be given an overview of the following areas:

- Laws and Regulations
- Health Effects
- Environmental Effects
- Handling
- Protective Clothing

Hazardous material packagers will be given training in the following areas:

- Packaging
- Marking and Labeling
- Placarding
- Respiratory Protection
- Storage Techniques
- Information Sources
- Fire Explosion Response
- Emergency Response
- Contingency Planning
- Site Specific System
- Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed

necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Records Administrator

**DESIGNATION:** The records administrator will be designated by the Director, Environmental.

### **QUALIFICATIONS:**

1. Possess general administrative knowledge.
2. Possess knowledge of record keeping requirements for environmental compliance.

### **RESPONSIBILITIES:**

1. Maintenance of all permits, reports, manifests, and documentation associated with hazardous waste management.
2. Record keeping at all hazardous material/hazardous waste incidents.

### **TRAINING REQUIREMENTS:**

The records administrator will be given an overview of the following areas:

#### **Laws and Regulations**

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that

the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Material Inspectors

**DESIGNATION:** Hazardous material inspectors are personnel assigned by the Defense Reutilization and Marketing Office (DRMO) whose responsibility is to inspect hazardous materials for reutilization and resale.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of handling, transfer, and storage of hazardous materials.
3. Possess knowledge of documentation requirements for handling, transfer and storage of hazardous materials.
4. Possess knowledge of the handling, transfer, and storage of hazardous waste.
5. Be familiar with the local emergency and contingency plans regarding hazardous materials.

### **TRAINING REQUIREMENTS:**

Hazardous material inspectors will be given detailed training in the following areas:

Laws and Regulations  
Health Effects  
Environmental Effects

Handling  
Packaging  
Marking and Labeling  
Placarding  
Respiratory Protection  
Storage Techniques  
Information Sources  
Fire Explosion Response  
Emergency Response  
Contingency Planning  
Site Specific System  
Site Specific Chemicals

This training can be substituted for similar training given by the Defense Logistics Agency (DLA) or the Defense Reutilization and Marketing Service (DRMS).

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been given.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Waste Contract Administrator

**DESIGNATION:** Personnel from the Facility Support Contract Branch and the Resident Officer in Charge of Construction (ROICC) who have been assigned contracts which deal with hazardous waste management, disposal, and remediation.

### **QUALIFICATIONS:**

1. Possess knowledge of contracting laws, regulations and standards.
2. Familiarity with environmental laws and regulations regarding hazardous waste.

### **RESPONSIBILITIES:**

1. To ensure that contracting regarding hazardous waste management, disposal, and remediation is done in compliance within the contractual agreement.
2. Monitor the contractors performance during management, disposal, and remediation projects.
3. To ensure all contracting regarding hazardous waste management, disposal and remediation is done in compliance with environmental regulations.

## **TRAINING REQUIREMENTS:**

Training will be given in the following areas:

Laws and Regulations

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Facility Designers

**RESIGNATION:** Facility designers will include the Civil Engineering Branch of the Engineering Division, Station Engineer and Facilities Managers, and Facility Coordination Officer.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of civil engineering.
3. Possess knowledge of requirements of facility standards for storage of hazardous materials/hazardous waste.

### **RESPONSIBILITIES:**

1. Programming and designing facilities for hazardous material and hazardous waste.
2. Reviewing designs for hazardous material and hazardous waste facilities.

### **TRAINING REQUIREMENTS:**

The Facility Designers will be given an overview in the following areas:

Health Effects

Environmental Effects

Handling  
Packaging  
Marking and Labeling  
Placarding  
Protective Clothing  
Respiratory Protection  
Storage Techniques  
Information Sources  
Fire/Explosion Response  
Emergency Response  
Contingency Planning  
Site Specific System  
Site Specific Chemicals

Facility Designers will be given detailed training in the following areas:

Laws and Regulations

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Supply Administrator

**DESIGNATION:** Supply Administrators will include the Director of Supply, and section heads both at the Station and Wing Supply Departments.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of handling, transfer, and storage of hazardous materials.
3. Possess knowledge of handling, transfer, storage, and disposal of hazardous waste.
4. Familiarization of emergency and contingency plans regarding hazardous materials and hazardous waste.

### **RESPONSIBILITIES:**

1. Supervise the disposition of hazardous materials and storage of hazardous materials.
2. Ensures that all spills of hazardous materials are reported properly cleaned-up.
3. Ensures that all personnel are properly trained in hazardous materials and hazardous waste management.
4. Ensures that all personnel wear proper personal protective gear.

5. Ensures that all personnel are familiar with emergency procedures.

#### **TRAINING REQUIREMENTS:**

Supply Administrators will be given an overview in the following areas:

Laws and Regulations

Packaging

Marking and Labeling

Placarding

Protective Clothing

Respiratory Protection

Storage Techniques

Information Sources

Fire/Explosion Response

Emergency Response

Contingency Planning

Site Specific System

Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Storage Facility Operators

**DESIGNATION:** The Storage Facility Operators will include the environmental staff and station personnel designated for assistance in operation of the facilities.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of regulations covering the handling, transfer, storage, and disposal of hazardous waste.
3. Possess knowledge of equipment in storage facilities.
4. Possess knowledge of facility inspection requirements.
5. Possess knowledge of documentation, record keeping, and reporting requirements required for the operation of hazardous waste storage facilities.
6. Possess knowledge of personal protective equipment requirements.
7. Be familiar with emergency and contingency plans regarding hazardous waste.

### **RESPONSIBILITIES:**

1. Inspection of storage facility weekly using the required inspection checklist.

2. Ensure that all equipment is maintained properly and in working condition.
3. Ensure that all records of receipt and disposal of hazardous waste are kept in compliance with environmental regulations.
4. Ensure that all hazardous wastes are handled, transferred, stored, and disposed of in accordance with environmental regulations.
5. Ensure that all spills are reported properly and cleaned-up.

#### **TRAINING REQUIREMENTS:**

Hazardous waste storage facility operators will be given an overview in the following areas:

Laws and Regulations

Health Effects

Environmental Effects

Packaging

Protective Clothing

Respiratory Protection

Storage Techniques

Hazardous waste storage facility operators will be given detailed training in the following areas:

Handling

Marking and Labeling

Placarding

Information Sources

Fire/Explosion Response

Emergency Response  
Contingency Planning  
Site Specific System  
Site Specific Chemicals

Hazardous waste storage facility operators will attend the following classes given by the Navy Energy and Environmental Support Activity.

Hazardous Waste Facility Operators Course  
Hazardous Waste Facility Training Development Course  
Hazardous Substance Incident Response Management Course  
Hazardous Waste Facility Operators Refresher Course

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Hazardous Waste Transporters

**DESIGNATION:** Personnel assigned to drive the vacuum truck used for transportation of used jet fuel, gasoline, and oil from MCAS Tustin to MCAS El Toro.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of hazardous waste transportation regulations.
3. Possess knowledge of emergency response actions.
4. Possess general equipment and vehicle knowledge to include vehicle inspection and maintenance requirements.

### **RESPONSIBILITIES:**

1. Transportation of jet fuel, gasoline, and oil from MCAS Tustin to MCAS El Toro.
2. Preparation of hazardous waste manifests.
3. General vehicle safety inspections.
4. Proper vehicle placarding.

## **TRAINING REQUIREMENTS:**

Hazardous waste transporters will be an overview in the following areas:

- Laws and Regulations
- Health Effects
- Environmental Effects
- Respiratory Protection
- Storage Techniques

Hazardous waste transporters will be given detailed information in the following areas:

- Handling
- Packaging
- Marking and Labeling
- Placarding
- Protective Clothing
- Information Sources
- Fire/Explosion Response
- Contingency Planning
- Site Specific Systems
- Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Fire Inspectors

**DESIGNATION:** Fire Inspectors assigned to the Station Fire Department.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of national fire protection association (NFPA) requirements for storage of hazardous materials.
3. Possess knowledge of hazardous waste material compatibility requirements.
4. Be familiar with emergency and contingency plans regarding hazardous materials.

### **RESPONSIBILITIES:**

1. Inspections of facilities where hazardous materials and hazardous wastes are stored.
2. Provide guidance on storage of flammable and combustible materials.
3. Assist in response efforts during hazardous material/hazardous waste incidents.

## **TRAINING REQUIREMENTS:**

Fire inspectors will be given an overview in the following areas:

- Laws and Regulations
- Health Effects
- Environmental Effects
- Handling
- Packaging
- Information Sources

Fire inspectors will be given detailed information in the following areas:

- Marking and Labeling
- Placarding
- Protective Clothing
- Respiratory Protection
- Storage Techniques
- Fire/Explosion Response
- Emergency Response
- Contingency Planning
- Site Specific Systems
- Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Vehicle Inspectors

**DESIGNATION:** Personnel assigned to the station motor pool who are required to do vehicle inspections on the vehicle used for transportation of hazardous waste either within the station or between MCAS El Toro and MCAS Tustin.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of hazardous waste transportation regulations.
3. Possess knowledge of proper vehicle maintenance and safety requirements.

### **RESPONSIBILITIES:**

1. Conduct vehicle inspections on all vehicles used for the transportation of hazardous wastes.
2. Ensure inspection records are kept on all vehicles.
3. Ensure that vehicles are maintained properly and have all required safety equipment.

## **TRAINING REQUIREMENTS:**

Vehicle inspectors will be given an overview in the following areas:

- Health Effects
- Environmental Effects
- Respiratory Protection
- Storage Techniques

Vehicle inspectors will be given detailed training in the following areas:

- Laws and Regulations
- Handling
- Packaging
- Marking and Labeling
- Placarding
- Protective Clothing
- Information Sources
- Fire/Explosion Response
- Emergency Response
- Contingency Planning
- Site Specific Systems
- Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** General Workers

**DESIGNATION:** General workers will include members of the labor shop assigned to hazardous waste management duties.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of proper handling, transfer, and storage of hazardous waste.
3. Possess knowledge of emergency and contingency plans.

### **RESPONSIBILITIES:**

1. Transportation of hazardous waste from accumulation sites to the storage facility under the direction of the environmental office.
2. Response to hazardous waste/hazardous material spills under the direction of the environmental office.

### **TRAINING REQUIREMENTS:**

General workers will receive an overview in the following areas:

Laws and Regulations

Health Effects

Environmental Effects  
Handling  
Packaging  
Marking and Labeling  
Placarding  
Protective Clothing  
Respiratory Protection  
Storage Techniques

General workers will receive specific training in the following areas:

Information Sources  
Fire/Explosion Response  
Emergency Response  
Contingency Planning  
Site Specific Systems  
Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Safety Inspectors

**DESIGNATION:** Safety inspectors include members of the Station Ground Safety Office and the Wing Safety Office who are responsible for doing safety inspections.

### **QUALIFICATIONS:**

1. Possess safety knowledge.
2. Possess knowledge of proper handling, transfer, storage, and disposal of hazardous materials and hazardous wastes.
3. Possess knowledge of proper personnel protective equipment.
4. Possess knowledge of emergency and contingency plans regarding hazardous materials and hazardous waste.

### **RESPONSIBILITIES:**

1. Inspect facilities for possible safety hazards to include safe storage and handling of hazardous materials and hazardous wastes.
2. Ensure that personnel are aware of safety and health effects associated with hazardous materials and hazardous wastes.
3. Provide technical support during hazardous material and hazardous waste spills.

## **TRAINING REQUIREMENTS:**

Safety inspectors will be given an overview in the following areas:

- Packaging
- Marking and Labeling
- Placarding
- Protective Clothing
- Information Sources

Safety inspectors will be given detailed training in the following areas:

- Laws and Regulations
- Health Effects
- Environmental Effects
- Handling
- Respiratory Protection
- Storage Techniques
- Fire/Explosion Response
- Emergency Response
- Contingency Planning
- Site Specific Systems
- Site Specific Chemicals

Introductory training will be given within six months of assignment and will consist of classroom training. Continuing training will be given at least annually or when deemed necessary. Upon completion of training, the trainee and trainer will certify by signature that the training has been completed.

## **JOB DESCRIPTION**

**TITLE:** Management

**DESIGNATION:** Management includes commanding officers, executive officers, and directors.

### **QUALIFICATIONS:**

1. Possess general safety knowledge.
2. Possess knowledge of general hazardous material and hazardous waste management.
3. Possess knowledge of emergency procedures regarding hazardous materials and hazardous wastes.

### **RESPONSIBILITIES:**

1. Ensure that the unit/squadron conducts proper hazardous material and hazardous waste management.
2. Ensure that the unit/squadron conducts safe hazardous materials and hazardous waste operations.
3. Ensure that the unit/squadron is familiar with emergency and contingency plans.

## **TRAINING REQUIREMENTS:**

Management will be given an overview in the following areas:

- Law and Regulations
- Health Effects
- Environmental Effects
- Handling
- Packaging
- Marking and Labeling
- Placarding
- Protective Clothing
- Respiratory Protection
- Storage Techniques
- Information Sources
- Fire/Explosion Response
- Emergency Response
- Contingency Planning
- Site Specific Systems
- Site Specific Chemicals

A management overview will be given as deemed necessary by command.

MANDATORY  
24 HOUR  
HAZARDOUS WASTE MANAGEMENT TRAINING

2 NOVEMBER 1993

<u>TIME</u>	<u>TOPIC</u>	<u>SPEAKER</u>
0730	INTRO/ADMIN REMARKS	MS. LETA SUAREZ
0745	WELCOMING REMARKS	COL CHESSUM, USMC
0800	FILM - HANDLING HAZARDOUS WASTE INTRODUCTION 15:25	MS. LETA SUAREZ
0820	BREAK	
0835	HAZARDOUS WASTE PROBLEM SECTION I	MS. LETA SUAREZ
0915	BREAK	
0930	HYDROLOGY MODEL/ INSTALLATION RESTORATION	LCDR SERAFINI, USN
1015	BREAK	
1030	HAZARDOUS WASTE LAWS AND REGULATIONS, SECTION II	COMCABWEST COUNSEL
	REGULATORY PROCESS, SECTION III	COMCABWEST COUNSEL
	NAVY AND FEDERAL POLICIES, SECTION IV	COMCABWEST COUNSEL
1130	LUNCH	
1230	FILM - THE BURIAL GROUND 30:00	MS. LETA SUAREZ
1305	BREAK	
1320	HAZARDOUS PROPERTIES, SECTION V	MS. LETA SUAREZ
1400	BREAK	
1410	HEALTH AND ENVIRONMENTAL EFFECTS, SECTION VI	MS. LETA SUAREZ
1510	BREAK	
1520	PERSONAL SAFETY, SECTION VII	MS. LETA SUAREZ
	SELECTING THE CORRECT PERSONAL PROTECTIVE EQUIPMENT (PPE) FOR FOR THE JOB	
	PPE WORKSHOP	CLASS

3 NOVEMBER 1993

<u>TIME</u>	<u>TOPIC</u>	<u>SPEAKER</u>
0730	REVIEW/QUESTIONS	MS. LETA SUAREZ
0745	HAZARDOUS WASTE LABELING ABO 5090.1B/BULLETIN	MS. LETA SUAREZ
	HAZARDOUS WASTE IDENTIFICATION SECTION VIII	MS. LETA SUAREZ
	DOT IDENTIFICATION SECTION XIV	MS. LETA SUAREZ
	HAZARDOUS WASTE TRANSPORTATION SECTION XVIII	MS. LETA SUAREZ
1100	LUNCH	
1200	FIELDTRIP BRIEF	MS. LETA SUAREZ
1215 OR 1315	FIELDTRIP 90 DAY HW ACCUMULATION SITE HM STORAGE SITE RECORD KEEPING	SGT OSTERMAN MS. JANETTE BARR CLASS
1215 OR 1315	AIR BASE ORDER 5090.1B/BULLETIN  DESIGNATION OF PERSONNEL HM/HW TRAINING RECORDS INSPECTION RECORDS WEEKLY DRUM REPORT HAZARDOUS MATERIAL STORAGE HAZARDOUS MATERIAL REPORT HM/HW IN YOUR AREA	MS. LETA SUAREZ
1415	BREAK	
1425	PROPER HANDLING OF HW	TBA
	PROPER PACKAGING OF HW	TBA
1530	COMPATIBILITY, SECTION XII  COMPATIBILITY WORKSHOP	MS. LETA SUAREZ  CLASS

4 NOVEMBER 1993

<u>TIME</u>	<u>TOPIC</u>	<u>SPEAKER</u>
0730	REVIEW/QUESTIONS	MS. LETA SUAREZ
0740	CONTINGENCY PLANNING SECTION XIX	MS. LETA SUAREZ
	CONTINGENCY PLANNING WORKSHOP	CLASS
	SPILL KITS AND CLEANUP	MS. LETA SUAREZ
0935	FILM - DRUM AND OTHER SMALL SPILLS, CONTROL, CONTAINMENT AND CLEANUP 19:00	MS. LETA SUAREZ
1000	WORKSHOP - THE BOTTOM LINE PUTTING IT ALL TOGETHER	CLASS
1100	LUNCH	
1200	HAZARDOUS MATERIAL SHELF LIFE MINIMIZATION, SUBSTITUTION, RECYCLING	MS. CAROLYN WRIGHT
1300	BREAK	
1315	HAZARDOUS MATERIALS MANAGEMENT PROGRAM	CPL SALMON, USMC/ CPL TURMAN, USMC
1345	DRMO HAZARDOUS MATERIAL TURN-IN PROCEDURES/1348-1	TBA
1415	HAZARDOUS MATERIAL DISCLOSURE	FIREFIGHTER BEVERLY BREWSTER
	HAZMAT ONE	HAZMAT TEAM
1445	BREAK	
1500	REVIEW/QUESTIONS	MS. LETA SUAREZ
	EXAM	
1615	CLOSING REMARKS/CERTIFICATES TURN IN CRITIQUES	MR. WAYNE LEE

SPEAKERS

COL CHESSUM, USMC

ASSISTANT CHIEF OF STAFF  
ENVIRONMENT AND SAFETY  
DEPARTMENT

MR. WAYNE LEE

DIRECTOR,  
ENVIRONMENTAL DEPARTMENT

LCDR SERAFINI, CEC, USN

DIRECTOR, ENVIRONMENTAL  
ENGINEERING DIVISION,  
ENVIRONMENTAL DEPARTMENT

CAPT JUMP, USMC

COUNSEL, CAMP PENDLETON  
ENVIRONMENTAL

LT JACKSON, USN

WING  
INDUSTRIAL HYGENIST

MS. CAROLYN WRIGHT

REGIONAL SHELF-LIFE  
COORDINATOR  
FLEET & INDUSTRIAL SUPPLY  
CENTER SAN DIEGO

CPL SALMON, USMC

MALS 16, AVIONICS

CPL TURMAN, USMC

MALS 16

FIREFIGHTER BEVERLY BREWSTER

HAZMAT TEAM  
EL TORO

EL TORO FIRE DEPARTMENT

MS. JANETTE BARR

ENVIRONMENTAL PROTECTION  
SPECIALIST, ENVIRONMENTAL  
DEPARTMENT

MS. LETA SUAREZ

ENVIRONMENTAL PROTECTION  
SPECIALIST, ENVIRONMENTAL  
DEPARTMENT

HAZARDOUS WASTE TRAINING PROGRAM OVERVIEW

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ATTACHMENT (1)

<b>NAVFAC OFF-BASE CONTRACTOR TAUGHT HAZARDOUS WASTE TRAINING COURSES</b>	
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<b>ALTERNATE SOURCE OF OFF-BASE TRAINING</b>	
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ATTACHMENT (3)

<b>NEESA ON-BASE CONTRACTOR TAUGHT HAZARDOUS WASTE TRAINING COURSES</b>	
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## HAZARDOUS WASTE TRAINING PROGRAM OVERVIEW

### WHY

Incidents such as spills, fires, and explosions, involving hazardous material/hazardous waste (HM/HW) can often be traced to ignorance, or lack of training. By developing a comprehensive HM/HW training program a naval activity can prevent unnecessary HM/HW incidents and also ensure that personnel respond quickly and safely to incidents should one occur. Implementation of a comprehensive training program will reduce the potential for costly property damage and for injury to personnel.

In addition to the real-life benefits of training, certain types of HM/HW training are required by federal regulations. The following summarizes the regulatory training requirements for HM/HW.

Resource Conservation and Recovery Act (RCRA--40 CFR 264.16 and 265.16) requires activities to train personnel to perform their duties in a way that ensures compliance with RCRA regulations. RCRA also requires that personnel be trained to respond effectively to HM/HW emergencies. At a minimum, personnel must be trained in the relevant aspects of the activity's:

- Hazardous Waste Management Program
- Spill Prevention, Control and Countermeasures Program
- Spill Contingency Program (including emergency procedures, equipment and systems).

Table 1 Summaries the Key Provisions of the RCRA training requirement.

Superfund Amendments and Reauthorization Act (SARA--29 CFR 1910.120) requires the development and implementation of three types of training programs which provide employees with the knowledge and skills to perform their work safely with minimal health risk to themselves and others.

One type of program is for employees exposed to hazardous substances during CERCLA and RCRA remedial actions and requires:

- all employees to have received 40 hours of initial classroom training and three days of on the job training prior to participating in worksite activities,
- all employees to receive eight hours of annual refresher training,
- managers and supervisors to have received an additional eight hours of specialized training on managing operations,
- trainers to have received a level of training higher than the level of instruction that they are providing.

The second type of training program required is directed at emergency response units (local police/fire departments) and HAZMAT teams. The regulations define a HAZMAT Team as an organized group of employees that is designated by the employer to plug, patch or otherwise temporarily control or stop leaks from containers. This program requires monthly training which totals at least 24 hours per year.

The third type of program is for employers involved in routine operations at permitted hazardous waste, treatment, storage, and disposal sites and requires employees to receive:

- 24 hours of initial training, and
- eight hours of annual refresher training.

Again, Table 1 summarizes the key provisions of the SARA/OSHA training requirements and compares them to the RCRA program.

National Oil and Hazardous Substance Pollution Contingency Plan (NCP--40 CFR 400) requires naval activities to respond quickly, efficiently and safely to hazardous substance spills. Activities must provide training to their spill response teams to ensure that the NCP requirements are met.

Occupational Safety and Health Act (OSHA--29 CFR 1910.1200) requires that naval activities train all employees that handle materials having hazardous properties using the safe handling procedures for these materials. This is known as the "Worker Right To Know" regulation and includes the worker having access to the Material Safety Data Sheets (MSDSs or data sheets) for each material.

Hazardous Material Transportation Act (HMTA--49 CFR 171.2) requires all HM/HW to be packaged, labeled, and transported in accordance with the specific requirement of this regulation. Training must be provided to activity personnel to ensure that all hazardous items are packaged, labeled and transported properly.

Further, there are Navy and Marine Corps requirements for HM/HW training. The Navy requires training be given to personnel involved in HW operations (see OPNAVINST 5090.1A). The Marine Corps requires handlers of HM/HW and operators of HM/HW facilities to receive training (see MCO P11000.8 at section 4608.9).

#### WHO

Based on the requirements explained above, an activity must train all personnel who:

- 1) Handle hazardous material or hazardous waste or are responsible for such personnel,
- 2) Are responsible for responding to spills, fires or explosions involving hazardous material/hazardous waste.

Employees must receive training at the time of job assignment and cannot participate in worksite activities until training has been successfully completed as required by the SARA training requirements. Employees must also undergo annual refresher training.

#### WHAT

The specific training courses will differ for each individual depending on his responsibilities and types of HW/HM handled. At a minimum the training should cover the activity HW management plan, HM control plan, the HM/HW spill contingency plan, and the specific safe job procedures. A comprehensive training program should teach personnel the following basic principles:

- 1) To perform their jobs without causing a spill, fire or explosion of HM/HW,
- 2) How to use the specific chemicals they handle without injuring themselves, and
- 3) The proper response to various emergency situations involving the HM/HW that they handle.

To ensure that a program covers the basic principles of HM/HW management the training should include at least the following topics of instruction:

- The importance of proper HM/HW management
- Overview of the HM/HW Federal Regulations including RCRA, SARA, NCP, OSHA and HMTA
- Overview of the Activity HM/HW Management Program including instruction on the Hazardous Waste Management Plan (HWMP); the Hazardous Material Control Plan (HMCP); Hazardous Substance Spill Prevention, Control and Countermeasures Plan (HSSPCCP); and the Hazardous Substance Spill Contingency Plan (HSSCP)
- Specific aspects of the Hazardous Substance Spill Contingency Plan relevant to the trainee's specific job. This training may vary for each type of job, however, the training program should include applicable:
  - Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
  - Key parameters for automatic waste feed cut-off systems;
  - Communications or alarm systems;
  - Response to fires or explosions;
  - Response to ground-water contamination incidents; and
  - Shutdown of operations.
- The proper use of Material Safety Data Sheets (MSDSs or data sheets) for the materials having hazardous properties.

- Specific aspects of the HM/HW Management Program relevant to the trainee's specific job. This training may vary for each type of job, however, the training program should include procedures for: use, handling, inspection, labeling, packaging, transportation, treatment, storage and disposal of HM/HW.

A matrix can be developed to determine which courses an employee or a group of employees need. A simplified training matrix is provided as Figure 1.

#### HOW

Once the training topics are identified, the next task is to determine the most expeditious method to teach the topics. There are many options including:

- Off-base contractor taught courses
- On-base contractor taught courses
- On-base courses taught by activity personnel such as HW coordinator, Safety office, local industrial hygienists, training office representative
- Audiovisual such as videotapes, films, cassette tape recordings
- Written materials such as booklets or self-study courses.

Each of these options has advantages and disadvantages. Depending on the manpower and funding available, an activity should tailor the training program to match their requirements and constraints.

The key course to developing a HM/HW training program is the Hazardous Waste Training Program Development Course. Students attending this course receive the tools to develop and implement an activity training program. Students who complete the course are then expected to develop an activity specific training program for their unit. We refer to this as pyramid training. Figure 2 is a simplified example of how the pyramid training approach works.

Prior to attending the HW Training Program Development Course (HWTPDC), the HM/HW training coordinator should have a good understanding of the federal HM/HW regulations. Therefore, the Hazardous Waste Facility Operations Course (HWFOC) or equivalent course is a prerequisite for the HWTPDC. The HWFOC provides a general HM/HW management background for the novice. The Hazardous Waste Annual Review and Refresher Course provides an annual update and refresher for previously trained coordinators.

NAVFAC OFF-BASE CONTRACTOR TAUGHT HAZARDOUS WASTE TRAINING COURSES

The Naval Facilities Engineering Command (NAVFAC) sponsors training courses to assist activities in HW management and in developing HM/HW training programs. These courses are offered regionally, and do not cover state and local requirements. The following pages describe the NAVFAC off-base contractor taught training courses:

- Hazardous Waste Facility Operations Course (HWFOC)
- Hazardous Waste Training Program Development Course (HWTPDC)
- Hazardous Waste Annual Review and Refresher Course (HWAR/RC)

The proper nomination procedure for the NAVFAC courses and a list of other sources of training are provided in last portion of this attachment.

HAZARDOUS WASTE FACILITY OPERATIONS COURSE  
(HWFOC)

(Previously titled Hazardous Waste Facility Operators Course)

PURPOSE:

This four day course will provide the participants with fundamental information required to manage and supervise their hazardous waste (HW) facility as required by the Resource Conservation and Recovery Act regulations (RCRA--40 CFR 260-265) and Navy policy. This course fulfills the general training requirements initially required for HW supervisors and managers by RCRA regulations (40 CFR 264.16(a)(1) and 265.16(a)(1)), and 24 hours of initial training required by Superfund Amendments and Reauthorization Act interim final regulations (29 CFR 1910.120(o)(5)).

TARGET AUDIENCE:

This course should be taken by the "novice" Activity Environmental Coordinator, Activity Hazardous Waste Coordinator, Activity Hazardous Material Control Program Manager, Activity Safety Manager, Hazardous Waste Facility Manager and Supervisor, Public Works Officer, or Assistant Public Works Officer, as their initial HW training. (Limited to 40 students.)

COURSE CONTENT:

The course provides fundamental information in the safe and environmentally proper operation of hazardous waste facilities in accordance with all applicable U.S. Environmental Protection Agency and Navy guidelines. Topics covered in the class include hazardous materials and hazardous waste laws and regulations; Navy hazardous materials and hazardous waste management; hazardous material identification and classification; Hazardous Waste Minimization; Land Ban; generator requirements; information sources; health effects and personal safety; labeling, packaging, handling, storage, and transportation procedures, as well as spill response planning and contingency or emergency response procedures. The course topics are covered by lectures, audiovisual aides, and exercises. Participants who successfully complete the examination will be awarded a certificate.

Proposed 1991 COURSE SCHEDULE

for

HAZARDOUS WASTE FACILITY OPERATIONS COURSE

NEESA POC: Anna Heller AUTOVON 551-4884 or Marilou Salim AUTOVON 551-3008

Class size: 40

<u>Proposed</u> <u>Location</u>	<u>Course</u> <u>Dates</u>	<u>Sponsor</u>
Newport, RI	2-5 Apr	NORTHDIV/CHESDIV
Pearl Harbor, HI	9-12 Apr	PACDIV
Charleston, SC	Jun	LANTDIV/SOUTHDIV
San Francisco, CA	4-7 Jun	WESTDIV

HAZARDOUS WASTE TRAINING PROGRAM DEVELOPMENT COURSE  
(HWTDPDC)

(Previously titled Hazardous Waste Train the Trainer Course)

PURPOSE:

This three day course will provide information on developing and implementing an activity-wide "in-house" training program. The Resource Conservation and Recovery Act regulations (40 CFR 264.16(a)(1) and 265.16(a)(1)) and Superfund Amendments and Reauthorization Act regulations (29 CFR 1910.120(o)(5)), requires activities to develop and implement a hazardous waste (HW) training program. This course, in conjunction with a general HW management course (for example, the Hazardous Waste Facility Operations Course) will qualify a person to direct an activity HW training program.

TARGET AUDIENCE:

This course should be taken every two years by the Activity Environmental Coordinator, Activity Hazardous Waste Coordinator, Activity Hazardous Material Control Program Manager, Activity Safety Manager, Public Works Officer, or Assistant Public Works Officer. This course should be taken only by personnel who are directly responsible for developing and implementing the hazardous waste training program at their activity. (Limited to 25 students.)

PREREQUISITE:

Attendee must be familiar with Federal regulations regarding hazardous materials and hazardous wastes. The Hazardous Facility Operations Course or equivalent course and experience are required prior to attending this course.

COURSE CONTENT:

The course will assist participants in developing an activity hazardous waste training program that meets the Federal requirements. Participants will be exposed to alternative methods of successful instruction and the use of training tools and aids to effectively conduct "in-house" training sessions. This course is not designed to be a speech course nor will it cover general hazardous waste information found in the HWFOC or HWARRC. Participants will be provided with:

- (1) the HW Training Program Development Course course manual,
- (2) the Instructor's Manual for Hazardous Waste Handlers Course,
- (3) a set of Instruction Modules for Hazardous Waste Handlers Course.

Participants are assigned homework and required to give a brief "instructor" presentation on which they will be critiqued. All participants will receive a certificate of attendance.

Proposed 1991 COURSE SCHEDULE

for

HAZARDOUS WASTE TRAINING PROGRAM DEVELOPMENT COURSE

NEESA POC: Anna Heller AUTOVON 551-4884 or Marilou Salim AUTOVON 551-3008

Class size: 25

<u>Proposed</u> <u>Location</u>	<u>Course</u> <u>Dates</u>	<u>Sponsor</u>
Newport, RI	8-10 Apr	NORTHDIV/CESDIV
Pearl Harbor, HI	15-17 Apr	PACDIV
Charleston, SC	Jun	LANTDIV/SOUTHDIV
San Francisco, CA	10-12 Jun	WESTDIV

HAZARDOUS WASTE ANNUAL REVIEW AND REFRESHER COURSE  
(HWARRC)

(Replaces Hazardous Waste Managers Course)

PURPOSE:

This two day course will provide participants with: (1) an update of new U.S. Environmental Protection Agency (EPA) and U.S. Department of Transportation requirements which impact the activity's hazardous waste and hazardous materials program, (2) new Department of Defense and Navy policies and programs, (3) a refresher of fundamentals in hazardous waste facility operations. The course fulfills general aspects of "annual review of initial training" as required by the Resource Conservation and Recovery Act regulations (40 CFR 264.16(a)(1) and 265.16(a)(1)). The course also fulfills the eight hours of annual refresher training for managers of RCRA sites with routine operations as required by the Superfund Amendments and Reauthorization Act interim final regulations (29 CFR 1910.120(o)(5)).

TARGET AUDIENCE:

This course should be taken annually as a refresher and update training by the Activity Environmental Coordinator, Activity Hazardous Waste Coordinator, Activity Hazardous Material Control Program Manager, Activity Safety Manager, Public Works Officer, or Assistant Public Works Officer, who have previously completed prerequisite for the course. (Limited to 40 students)

COURSE CONTENT:

The course focuses on changes to the regulatory and technical aspects of the Navy hazardous waste and hazardous materials management program and its implementation at shore activities. Course topics include changes in the hazardous waste and materials regulations and the Department of Defense and Navy Policies on hazardous waste and materials management. The course provides a review of health and safety considerations and Department of Transportation of hazardous material regulations as well as an overview of hazardous waste identification and information systems. The course also provides guidance on spill prevention and contingency plan development and implementation. Portions of this course are redundant with Hazardous Waste Operations Course. The redundancy is meant to be a refresher to highlight significant topics and common problem areas. All participants receive a certificate of attendance.

Proposed 1991 COURSE SCHEDULE

for

HAZARDOUS WASTE ANNUAL REVIEW AND REFRESHER COURSE

NEESA POC: Anna Heller AUTOVON 551-4884 or Marilou Salim AUTOVON 551-3008

Class size: 40

<u>Proposed</u> <u>Location</u>	<u>Course</u> <u>Dates</u>	<u>Sponsor</u>
Newport, RI	11-12 Apr	NORTHDIV/CHESDIV
Pearl Harbor, HI	18-19 Apr	PACDIV
Charleston, SC	Jun	LANTDIV/SOUTHDIV
San Francisco, CA	13-14 Jun	WESTDIV

## HEALTH AND SAFETY COURSES

### Installation Restoration Health and Safety Course (IR/H&S)

This 40 hour course is required by the Occupational Safety and Health Administration (OSHA -- 29 CFR 1910.120.(e)(2) for all personnel potentially exposed to chemicals at hazardous waste sites. The following are some of the topics covered in class: basic hazardous chemical categories; air monitoring regulations. Class size: 24 students.

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### Installation Restoration Refresher Course (IR/RC)

This 8 hour course fulfills general aspects of annual review as required by OSHA. In addition, this course is designed to review materials covered in the 40 hour IR/H&S course. This course will provide participants with an update of new U.S. Environmental Protection Agency (EPA) and U.S. Department of Transportation (DOT) regulations that impact the EFD hazardous waste and hazardous materials programs. The IR/H&S is a prerequisite for this course. Class size: 24 students.

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### Installation Restoration Supervisors Course (IR/SC)

This 8 hour course is required by OSHA (29 CFR 1910.120(e)(3) for personnel who supervise on-site workers at hazardous waste sites. This course enables supervisors to maintain a safe working environment. Some of the topics that will be covered in class include toxicology for supervisors; site characterization and analysis; chemical exposure assessment; regulatory requirements; and medical surveillance. The 40 hour IR/H&S course is a prerequisite for this course. Class size: 24 students.

## HAZARDOUS SUBSTANCE INCIDENT RESPONSE MANAGEMENT COURSE (HSIRMC) OVERVIEW

### PURPOSE:

This five day course will provide activity response team personnel with a knowledge base to develop an activity hazardous substance (HS) incident response management plan (contingency plan) and to improve the performance of the response team. This course will cover the spill response requirements necessary to ensure that all HS spills, fires, and explosions are responded to safely, efficiently, and in accordance with the National Oil and Hazardous Substance Pollution Contingency Plan (NCP—40 CFR 300).

### TARGET AUDIENCE:

This course should be taken by key personnel on the hazardous substance incident response team including the: Activity Environmental (or Hazardous Waste) Coordinator, Public Works Officer, Safety Officer, and Fire Department (team leader for first responders). (Limited to 26 students, normally 2-5 students from each activity).

### COURSE CONTENT;

The course provides "hands on" training to improve awareness of the hazards involved in spill response as well as instruction in the safe and environmentally sound operations of initial response, control containment, and cleanup of hazardous substance spills in accordance with applicable U.S. Environmental Protection Agency and Navy guidelines. The course addresses hazard recognition and evaluation; response organization and responsibilities; technical assistance organizations; monitoring instruments; use of personnel protective equipment including air purifying respirators and self-contained breathing apparatus; containment and control procedures; sampling and cleanup techniques; contingency planning; and two simulated hazardous substance spill incidents. Participants who successfully complete the course and pass the final examination are awarded a certificate.

In addition to the course listed in attachment (1), we also offer four courses that come under the requirements of 29 CFR 1910.120 (Hazardous Waste Operations and Emergency Response). Navy personnel working in the Installation Restoration Program (IRP) are eligible to take the 40 hour Health and Safety Course, and the annual 8 hour Health and Safety Refresher Course. IRP personnel who manage or supervise people on hazardous waste sites may take the 8 hour Supervisors Course. Lastly, we provide the Hazardous Substance Incident Response Management Course (HSIRMC) to navy personnel assigned to hazardous material spill teams. The three IRP courses are scheduled and coordinated through the Engineering Field Divisions. The HSIRMC is offered four times each year and the application procedure is similar to the procedures outlined in Attachment (3). A schedule for IRP and HSIRMC courses will be available in February 1991. For additional information contact Martha Gonzalez or John Wollenberg, Code 112E4, AUTOVON 551-4890 or commercial (805)982-4890.

NOMINATION PROCEDURE FOR ALL HAZARDOUS WASTE COURSES:

Message format is required for all nominations. The activity will send out a course announcement message eight weeks prior to scheduled course date. In order to process the nomination application all the required information must be provided in the message or NAVGRAM. DD 1556's **AND PHONE NOMINATIONS WILL NOT BE ACCEPTED.** A sample message format and worksheet are provided for your use.

The message information must be received at the requesting activity by the specified deadline date. Activity will review the nominations and select the class participants. The host activity will inform the activity's point of contact (POC) by message of those persons accepted for the class. The acceptance message will include the student's name, reporting instructions, and classroom location. Nominating activities are responsible for arranging and funding necessary travel and lodging. As classes are limited to specific number of students, you are encouraged to make applications early.

Further information may be obtained by contacting Ms. Anna Heller, NEESA, Code 112F2, AUTOVON 551-4884, commercial (805) 982-4884 or Ms. Marilou Salim, NEESA, Code 112F2, AUTOVON 551-3008, commercial (805) 982-3008.

[Sample Nomination Message Format]

FROM: NAS HARBORVILLE CA

TO: HOST ACTIVITY

INFO: NEESA PORT HUENEME CA//112F2//  
ENGINEER FIELD DIVISION//ENVIRONMENTAL OFFICE

UNCLAS //12410//

SUBJ: HAZARDOUS WASTE TRAINING COURSES - NOMINATIONS

1. NOMINATIONS FOR HAZARDOUS WASTE FACILITY OPERATIONS COURSE, WASHINGTON DC, 1-4 APR 87:

- A. CHRIS J. WILSON, SSN 234-25-0965, CODE 80, PUBLIC WORKS OFFICER, CDR;
- B. MARY L. KRUM, SSN 526-53-8604, CODE 824, ACTIVITY ENVIRONMENTAL COORDINATOR, GS-12.

2. NOMINATION FOR HAZARDOUS WASTE MANAGEMENT COURSE, WASHINGTON DC, 7-8 APR 87:

- A. LARRY V. THOMAS, SSN 537-36-7649, CODE 8241, ACTIVITY HAZARDOUS WASTE COORDINATOR, GS-11.

3. NOMINATION FOR HAZARDOUS WASTE TRAINING PROGRAM DEVELOPMENT COURSE, WASHINGTON DC, 9-11 APR 87:

- A. NORMA K. FORTNITE, SSN 563-78-0790, CODE 80A, ASSISTANT PUBLIC WORKS OFFICER, LT.

4. NOMINATION FOR HAZARDOUS SUBSTANCE INCIDENT RESPONSE MANAGEMENT COURSE, CHARLESTON SC, 7-11 APR 86:

- A. HENRY B. KILBERG, SSN 647-36-9786, CODE 14, ACTIVITY SAFETY OFFICER, LCDR.

5. ACTIVITY POC FOR NOMINATIONS: LT WILLIAM S. HISS, NAS/CODE 14A, A/V 536-9582, COM (806) 345-9582.

[NOMINATION MESSAGE WORKSHEET]

FROM: \_\_\_\_\_  
(activity name and location)

TO: HOST ACTIVITY

INFO: NEESA PORT HUENEME CA//112F2//

UNCLAS: //12410//

SUBJ: HAZARDOUS WASTE TRAINING COURSES - NOMINATIONS

1. NOMINATION(S) FOR \_\_\_\_\_,  
(course title)  
\_\_\_\_\_, \_\_\_\_\_:  
(course location) (course dates)

A. \_\_\_\_\_, SSN \_\_\_\_\_,  
(person) (Social Security number)  
CODE \_\_\_\_\_,  
(code) (job title\*\*)  
\_\_\_\_\_.  
(rank/GS level)

B. \_\_\_\_\_, SSN \_\_\_\_\_,  
(person) (Social Security number)  
CODE \_\_\_\_\_,  
(code) (job title\*\*)  
\_\_\_\_\_.  
(rank/GS level)

2. ACTIVITY POC FOR NOMINATIONS: \_\_\_\_\_,  
(person)  
CODE \_\_\_\_\_, A/V \_\_\_\_\_, FTS \_\_\_\_\_,  
(code) (AUTOVON number) (FTS number)  
COM (\_\_\_\_\_) \_\_\_\_\_.  
(commercial telephone number)

[\* Select appropriate one: CMC WASHINGTON DC; LANTNAVFACENGCOR NORFOLK VA;  
PACNAVFACENGCOR PEARL HARBOR HI; WESTNAVFACENGCOR SAN BRUNO CA;  
SOUTHNAVFACENGCOR CHARLESTON SC; NORTHNAVFACENGCOR PHILADELPHIA PA;  
CHESNAVFACENGCOR WASHINGTON DC; NAVFACENGCOR SWDIV SAN DIEGO CA;  
ENGFLDACT NW SILVERDALE WA.]

[\*\* Examples of job titles: Activity Environmental Coordinator, Activity  
Hazardous Waste Coordinator, Public Works Officer, Assistant Public Works  
Officer, Safety Manager, Activity Hazardous Material Control Program Manager,  
and First Responder Crew Chief.]

ALTERNATE SOURCES OF OFF-BASE TRAINING

HM/HW training courses are available through many sources. A short list of some of the federal HM/HW courses and the appropriate contact for additional information is provided in this attachment. This is based on information currently on file at NEESA. Additional courses will be added as information becomes available. Further, there are many private companies that provide HM/HW training courses. These courses vary in content, quality and price. To ensure that a private course will meet your needs, check with references and review the course contents carefully.



OTHER DEPARTMENT OF DEFENSE ENTITIES

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Sponsor: U.S. Army Logistics Management Center  
DRXMC-A-R  
Fort Lee, VA 23801  
(804) 734-4220  
A/V 687-4220

Courses Offered: Defense Hazardous Material Handling Course (ALMC-HA)  
Environmental Assessment Preparation (ALMC-EG)  
Environmental Coordinators Course (ALMC-ED)  
Managers Environmental Course (ALMC-EC)

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Sponsor: Defense Industrial Security Institute--Joint Military  
Packaging

Defense General Supply Center Richmond, VA 23287  (804) 275-4892 A/V 695-4892	Training Center Aberdeen Proving Grounds Aberdeen, MD (301) 939-5185
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Courses Offered: Defense Packaging of Hazardous Material for Transportation  
(8B-F7)  
Defense Packaging of Hazardous Material for Air  
Transportation (8B-F35)

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Sponsor: U.S. Environmental Protection Agency  
26 West St. Clair Street  
Cincinnati, OH 45268  
(513) 569-7537

Courses Offered: Personnel Protection and Safety (165.2)  
Incident Mitigation and Treatment Methods (165.3)  
Hazardous Material Incident Response Operations (165.5)  
Air Surveillance for Hazardous Materials (165.4)  
Environmental Risk Assessment (165.6)  
Introduction to Ground-Water Investigations (165.7)  
Response Safety Decision-Making (165.8)  
Sampling for Hazardous Materials (165.9)  
Hazardous Materials Response for First Responders (165.15)

OTHER DEPARTMENT OF DEFENSE ENTITIES (Continued)

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Sponsor: Federal Emergency Management Training Center  
National Emergency Training Center  
16825 S. Seton Ave.  
Emmitsburg, MD 21727  
(301) 447-6771  
FTS 652-6771

Courses Offered: Hazardous Materials Incident Analysis. These courses are  
Hazardous Materials: The Pesticide Challenge--geared for  
fire fighters.

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OTHER FEDERAL GOVERNMENT ENTITIES

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Sponsor: Government Services Administration Training Center  
(703 )557-0986  
FTS 557-0986

Courses Offered: Hazardous Materials Compliance and Enforcement Course  
(concerning shipping of HM/HW)

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Sponsor: U.S. Department Of Labor  
Occupational Safety and Health Administration  
Training Institute  
1555 Times Dr.  
Des Plaines, IL 60018  
(312) 297-4810

Courses Offered: Hazardous Materials (as related to OSHA)

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Sponsor: U.S. Department of Transportation  
Transportation Safety Institute  
Program Manager  
Hazardous Material Safety  
6500 South MacArthur Blvd.  
Oklahoma City, OK 73125  
(405) 686-4824

Courses Offered: DOT Hazardous Materials Requirements for the Department of  
Defense

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NEESA ON-BASE CONTRACTOR TAUGHT HAZARDOUS WASTE TRAINING COURSES

The Naval Energy and Environmental Support Activity (NEESA) has contractors who can provide on-base training to assist activities in HW management and in developing HM/HW training programs, on a cost reimbursable basis. These training courses are different from other training courses offered by commercial firms, as they include the Department of the Navy's policies and are tailored to the activity's programs and instructions. These courses are also slightly different from the NEESA off-base contractor taught hazardous waste courses, as they cover state and local requirements. The following pages describe these NEESA on-base contractor taught training courses:

- Hazardous Waste Handlers Course (HWHC)
- Hazardous Waste Managers Course (HWMC)
- Hazardous Waste Training Program Development Course (HWTPDC)

The support requirements to assist the contractor and proper procedure authorizing NEESA to provide a training contractor are also given in the last portion of this attachment.

## HAZARDOUS WASTE HANDLERS COURSE

### HWHC

#### PURPOSE:

This course will provide the participants with fundamental information required to handle their hazardous waste as required by the Resource Conservation and Recovery Act regulations (RCRA--40 CFR 260-265), appropriate state and local requirements, and Navy policy. This course fulfills the training requirements initially required for HW handlers by RCRA regulations (40 CFR 264.16(a)(1) and 265.16(a)(1)), and 24 hours of initial training required by Superfund Amendments and Reauthorization Act interim final regulations (29 CFR 1910.120(o)(5)).

The HWHC is slightly different from the NEESA off-base taught Hazardous Waste Facility Operations Course (HWFOC). The differences are that HWHC

- includes additional information concerning state and local requirements.
- is tailored to a specific activity's instructions and plans.
- is tailored to the activity's facilities.
- can be tailored to the activity's needs through elimination of non-relevant topics.

#### TARGET AUDIENCE:

This course should be taken by the "novice" hazardous waste handlers as their initial HW training. (Limited to 40 students)

#### COURSE CONTENT:

The course provides fundamental information in the safe and environmentally proper operation of hazardous waste facilities in accordance with all applicable U.S. Environmental Protection Agency, state and local requirements, and Navy guidelines. Site specific information is provided, such as the conditions of the activity's RCRA permit, HW Facility Operations Plan, Base Contingency Plan, Base Hazardous Materials Control Plan, Base Hazardous Waste Management Plan, Base Hazardous Material Spill Prevention, Control, and Countermeasures Plan, and relevant Base Instructions. Other topics covered in the class include hazardous materials and hazardous waste laws and regulations; Navy hazardous materials and hazardous waste management; hazardous material identification and classification; generator requirements; information sources; health effects and personal safety; labeling, packaging, handling, storage, and transportation procedures, as well as spill response planning and contingency or emergency response procedures. The course topics are covered by lectures, audiovisual aides, and exercises. Participants who successfully complete the examination will be awarded a certificate.

## HAZARDOUS WASTE MANAGERS COURSE

### HWMC

#### PURPOSE:

This course will provide the participants with fundamental information required to manage and supervise their hazardous waste (HW) facility as required by the Resource Conservation and Recovery Act regulations (RCRA--40 CFR 260-265) and Navy policy. This course fulfills the training requirements initially required for HW supervisors and managers by RCRA regulations (40 CFR 264.16(a)(1) and 265.16(a)(1)), and 24 hours of initial training required by Superfund Amendments and Reauthorization Act interim final regulations (29 CFR 1910.120(o)(5)). The course is a shortened version of the Hazardous Waste Handlers Course.

The HWMC is slightly different from the NEESA off-base taught Hazardous Waste Facility Operations Course (HWFOC). The differences are that HWMC

- includes additional information concerning state and local requirements.
- is tailored to a specific activity's instructions and plans.
- is tailored to the activity's facilities.
- can be tailored to the activity's needs through elimination of non-relevant topics.

#### TARGET AUDIENCE:

This course should be taken by the "novice" managers and supervisors (such as Activity environmental coordinator, Activity Hazardous Waste Coordinator, Activity Hazardous Material Control Program Manager, Activity Safety Manager, Hazardous Waste Facility Manager and Supervisor, Public Works Officer, Assistant Public Works Officer, and Departmental/Unit Hazardous Waste Coordinator) as their initial HW training. (Limited to 40 students)

#### COURSE CONTENT:

The course provides fundamental information in the safe and environmentally proper operation of hazardous waste facilities in accordance with all applicable U.S. Environmental Protection Agency, state and local requirements, and Navy guidelines. Site specific information is provided, such as the conditions of the activity's RCRA permit, HW Facility Operations Plan, Base Contingency Plan, Base Hazardous Materials Control Plan, Base Hazardous Waste Management Plan, Base Hazardous Material Spill Prevention, Control, and Countermeasures Plan, and relevant Base Instructions. Other topics covered in the class include hazardous materials and hazardous waste laws and regulations; Navy hazardous materials and hazardous waste management; hazardous material identification and classification; generator requirements; information sources; health effects and personal safety; labeling, packaging, handling, storage, and transportation procedures, as well as spill response planning and contingency or emergency response procedures. The course topics are covered by lectures, audiovisual aides, and exercises. Participants who successfully complete the examination will be awarded a certificate.

HAZARDOUS WASTE TRAINING PROGRAM DEVELOPMENT COURSE

(HWTTPDC)

(Previously titled Hazardous Waste Train the Trainer Course)

PURPOSE:

This course will provide information on developing and implementing an activity-wide "in-house" training program. The Resource Conservation and Recovery Act regulations (40 CFR 264.16(a)(1) and 265.16(a)(1)) and Superfund Amendments and Reauthorization Act regulations (29 CFR 1910.120(o)(5)), requires activities to develop and implement a hazardous waste (HW) training programs. This course, in conjunction with a general HW management course (for example, the Hazardous Waste Handlers Course, Hazardous Managers Course, or Facility Operations Course) will qualify a person to direct an activity/department/unit HW training program.

TARGET AUDIENCE:

This course should be taken by personnel who will become training instructors (such as the Activity Environmental Coordinator, Activity Hazardous Waste Coordinator, Activity Hazardous Material Control Program Manager, Activity Safety Manager, Public Works Officer, or Assistant Public Works Officer and Departmental/Unit Hazardous Waste Coordinator). This course should be taken only by personnel who are directly responsible for developing and instructing hazardous waste training courses for their activity/department/unit. This course will be only given in conjunction with the Hazardous Waste Handlers Course or Hazardous Waste Managers Course. (Limited to 25 students.)

PREREQUISITE:

The Hazardous Waste Handlers Course, Hazardous Managers Course, or Hazardous Facility Operations Course, or equivalent course and experience are required prior to attending this course.

COURSE CONTENT:

The course will assist participants in developing an activity hazardous waste training program that meets the Federal requirements. Participants will be exposed to alternative methods of successful instruction and the use of training tools and aids to effectively conduct "in-house" training sessions. This course is not designed to be a speech course nor will it cover general hazardous waste information found in the HWFOC or HWMC. Participants will be provided with:

- (1) the HW Training Program Development Course course manual,
- (2) the Instructor's Manual for Hazardous Waste Handlers Course,
- (3) a set of Instruction Modules for Hazardous Waste Handlers Course.

Participants are assigned homework and required to give a brief "instructor" presentation on which they will be critiqued. All participants will receive a certificate of attendance.

## Activity Support Requirements for Hazardous Waste Training Courses

1. The host activity must supply copies of the following relevant documents six weeks prior to training for the contractor's use:

- Activity RCRA Permit
- Activity Hazardous Waste Facility Operation Plan
- Activity Hazardous Waste Management Plan
- Activity Hazardous Material Control Plan
- Activity Hazardous Spill Contingency Plan
- Activity Hazardous Spill Prevention, Control, and Countermeasures Plan
- Activity Hazardous Waste/Material/Substance Instructions or Orders
- Letters of Non-Compliance from environmental agencies
- Navy environmental audit reports
- Inspector General reports concerning hazardous waste/materials/substance
- Activity Hazard Communications Program
- Local hazardous waste regulations (e.g. county)
- any other relevant documents

These documents will be used by the contractor to tailor the courses to the activity.

2. Reserve a classroom for the scheduled dates and specified class size. The contractor requires access to the classroom the day before the training session begins in order to setup the equipment and arrange seating. Classrooms should be sufficient for 45 people (i.e., 40 students plus an additional 5 persons for instructors and guest speakers).

3. Inform NEESA of the point of contact at the host facility, and exact classroom location.

4. Ensure that the classroom has the following equipment set up and operating:

- Overhead projector
- Movable projector screen
- 3/4 inch u-matic video machine
- Elevated video/television monitor/VHS video projector
- Electrical extension cords

5. Ensure that the classroom has a chalkboard, drapes or blinds, and tables (or large desks). Remember that the students learn more if they are comfortable and the small (regular) desk/chair combination found in most classrooms are very uncomfortable for 8 hours a day. Also, coffee and soft drink facilities are a definite advantage.

6. Provide for secretarial and logistic support at the host facility to include:

- training record listing names of students
- small quantities of typing and copying support

7. Arrange for and coordinate with the following guest speakers to provide information to the course participants:

<u>COURSE</u>	<u>DAY/TIME</u>	<u>SPEAKER</u>	<u>TOPIC</u>
HWHC	1st Day/0800-0830	Keynote*	Introduce course and stress the importance of proper HW management.
HWAR/RC	1st Day/0800-0830	Keynote*	Introduce course and stress the importance of proper HW management.
HWTPDC	1st Day/0800-0830	Keynote*	Introduce course and stress the importance of proper HW management.

\*Keynote speaker is usually either the Commanding Officer, Executive Officer, Public Works Officer or the Activity Environmental Coordinator.

Application Procedures for  
NEESA On-Base Contractor Taught Hazardous Waste Courses

The application is initiated through a telephone inquiry from the activity to NEESA, and is confirmed by the activity in an application letter. This application letter is required for requesting NEESA on-base contractor taught hazardous waste courses. The letter indicates the activity's intent to fund the training courses and provides necessary information for NEESA to negotiate with the contractor. In order to process the application, all the required information must be provided in the letter. A sample letter format and worksheet are provided for your use.

The letter must be received at Naval Energy and Environmental Support Activity (NEESA) at least ten weeks prior to the proposed date for the course. Applying activities are also required to send copies of the documents indicated in paragraph (1) of the section title "Activity Support Requirements for Hazardous Waste Training Courses," no later than nine weeks prior to the proposed course date.

Sponsoring activities are responsible for student nominations and site specific support.

[SAMPLE APPLICATION LETTER]

From: Commanding Officer Construction Battalion Center, Port Hueneme, CA  
To: Commanding Officer, Naval Energy and Environmental Support Activity,  
Code 112F2  
Subj: REQUEST FOR HAZARDOUS WASTE TRAINING  
Ref: (a) PHONCON CBC (842) CAPT Blygh/NEESA (112F2 Ms. Heller of 8 June 1990  
Encl: (1) NAVCOMPT Form 2276 (copy)

1. Reference (a) requests engineering services within the scope of the A/E contract N47408-90-D-3053 or N47408-90-D-3054 required to comply with the annual training program requirements for hazardous waste facilities of the Resource Conservation and Recovery Act (RCRA) and the Superfund Amendments and Reauthorization Act (SARA).
2. As requested by reference (a), FY91 funds are reserved in the amount of the current working estimate. Request negotiations be scheduled to allow for training to be given on 16 to 23 February 1989, or 5 to 12 April 1989.
3. Requested engineering services: Hazardous Waste Handlers' Course and Hazardous Waste Managers' Course for 40 student per course.
4. Point of contacts are A. Heller at AUTOVON 551-4884 or Marilou Salim, AUTOVON 551-3008.

CAPT W. BLYGH  
By direction

[APPLICATION LETTER WORKSHEET]

From: \_\_\_\_\_, \_\_\_\_\_  
(Commanding Officer or Commander) (activity name and location)

To: Commanding Officer, Naval Energy and Environmental Support Activity  
Code 112F

Subj: HAZARDOUS WASTE TRAINING FOR \_\_\_\_\_  
(activity name and location)

A/E CONTRACT N47408-90-D-\_\_\_\_\_ DEVELOPMENT AND IMPLEMENTATION OF  
(3053 (east) or 3054 (west)\*)

HAZARDOUS WASTE TRAINING PROGRAMS - \_\_\_\_\_  
(east or west\*)

Ref: (a) PHONCON \_\_\_\_\_ (\_\_\_\_\_) \_\_\_\_\_/  
(activity) (code) (name)

NEESA (112F \_\_\_\_\_ of \_\_\_\_\_  
(Ms. Heller) (date)

1. Reference (a) requests engineering services within the scope of the  
A/E contract N47408-90-D-\_\_\_\_\_ required to comply with the  
(3053 for east or 3054 for west\*)

annual training program requirements for hazardous waste facilities of the  
Resource Conservation and Recovery Act (RCRA) and the Superfund Amendments and  
Reauthorization Act (SARA). Estimated working cost not to exceed

\$ \_\_\_\_\_.  
(amount to be suggested in reference (a))

[\*Use 3053 and East for the following: Alabama, Arkansas, Colorado,  
Connecticut, Cuba, Delaware, District of Columbia, Florida, Georgia, Illinois,  
Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts,  
Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire,  
New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio,  
Oklahoma, Pennsylvania, Puerto Rico, Rhode Island, South Carolina,  
South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin,  
Wyoming, U.S. Virgin Island, and for the European-Atlantic region.

Use 3054 and West for the following: Alaska, Arizona, California, Hawaii,  
Guam, Idaho, Montana, Nevada, Oregon, Panama Canal, Utah, Washington, and  
Asian-Pacific region.]

2. As requested by reference (a), authority is granted to negotiate this contract. FY \_\_\_\_\_ funds are reserved in the amount of the current working estimate. Request negotiations be scheduled to allow for training to be given on \_\_\_\_\_, or alternate date of \_\_\_\_\_.

3. Requested engineering services: \_\_\_\_\_  
(give title names for courses desired)  
for \_\_\_\_\_ students per course.  
(not to exceed 40)

4. Point of Contact is \_\_\_\_\_, at AUTOVON \_\_\_\_\_

By direction \_\_\_\_\_

[NOMINATION MESSAGE WORKSHEET]

FROM: \_\_\_\_\_  
(activity name and location)  
TO: HOST ACTIVITY  
INFO: NEESA PORT HUENEME CA//112F2//  
UNCLAS: //12410//  
SUBJ: HAZARDOUS WASTE TRAINING COURSES - NOMINATIONS

1. NOMINATION(S) FOR \_\_\_\_\_,  
(course title)  
\_\_\_\_\_, \_\_\_\_\_:  
(course location) (course dates)

A. \_\_\_\_\_, SSN \_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_,  
(person) (Social Security number)  
CODE \_\_\_\_\_, \_\_\_\_\_,  
(code) (job title\*\*)  
\_\_\_\_\_.  
(rank/GS level)

B. \_\_\_\_\_, SSN \_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_,  
(person) (Social Security number)  
CODE \_\_\_\_\_, \_\_\_\_\_,  
(code) (job title\*\*)  
\_\_\_\_\_.  
(rank/GS level)

2. ACTIVITY POC FOR NOMINATIONS: \_\_\_\_\_,  
(person)  
CODE \_\_\_\_\_, A/V \_\_\_\_\_-\_\_\_\_\_, FTS \_\_\_\_\_-\_\_\_\_\_,  
(code) (AUTOVON number) (FTS number)  
COM (\_\_\_\_\_) \_\_\_\_\_.  
(commercial telephone number)

[\* Select appropriate one: CMC WASHINGTON DC; LANTNAVFACENGCOCOM NORFOLK VA;  
PACNAVFACENGCOCOM PEARL HARBOR HI; WESTNAVFACENGCOCOM SAN BRUNO CA;  
SOUTHNAVFACENGCOCOM CHARLESTON SC; NORTHNAVFACENGCOCOM PHILADELPHIA PA;  
CHESNAVFACENGCOCOM WASHINGTON DC; NAVFACENGCOCOM SWDIV SAN DIEGO CA;  
ENGFLDACT NW SILVERDALE WA.]

[\*\* Examples of job titles: Activity Environmental Coordinator, Activity  
Hazardous Waste Coordinator, Public Works Officer, Assistant Public Works  
Officer, Safety Manager, Activity Hazardous Material Control Program Manager,  
and First Responder Crew Chief.]

UCI CERTIFICATION PROGRAM

REQUIRED COURSES

COURSE	SCHEDULED	COMP
INTRO CHEMISTRY OF HAZ MAT OR ORGANIC AND INORGANIC CHEMISTRY		
PRINCIPLES OF HAZ MAT MGMT		
FRAMEWORK FOR HAZ AND TOXIC SUBS		
HAZ MAT EMERG PREP, RESPONSE, AND PLAN		
ELEMS OF HEALTH AND SAFETY FOR EFFECTIVE HAZ MAT MGMT		
<u>CORE GROUP A</u>		
ENVIRONMENTAL LAW		
RISK ASSESSMENT AND MANAGEMENT		
POLITICAL AND SOCIAL DYNAMICS OF ENVIRONMENTAL MANAGEMENT		
ENVIRONMENTAL TOXICOLOGY		
<u>CORE GROUP B</u>		
TECHNOLOGIES FOR THE MGMT OF HAZ WASTE		
FUNDAMENTALS OF AIR POLLUTION		
GROUNDWATER HYDROLOGY: MONITORING, PROTECTION, AND CLEAN-UP		
ANALYTICAL CHEMISTRY FOR THE CHARACTERI- ZATION OF HAZARDOUS MATERIALS		
<u>TYPE CERTIFICATE COMPLETED</u>		
HAZARDOUS MATERIALS MANAGEMENT		
ENVIRONMENTAL SITE ASSESSMENT AND REMEDIATION		
ENVIRONMENTAL AUDITING		

## **GUIDANCE ON HAZCOM**

20 JUN 1989

EXAMPLE  
HAZARD COMMUNICATION (HAZCOM) PROGRAM PLAN

A local, written program must include the specific methods that are used to achieve compliance with the requirements of the Hazard Communication Standard (29 CFR 1910.1200). The specific methods described in this example program plan are for illustrative purposes only. Other effective methods may be substituted to satisfy shore activity needs or practices as long as the key elements of 29 CFR 1910.1200 are satisfactorily implemented.

1. Purpose. To establish a Hazard Communication (HAZCOM) Program Plan [e.g., NAS Neversail] in accordance with reference (a) [29 CFR 1910.1200] and applicable DOD and Navy guidance.

2. Applicability and Scope. This instruction, unless otherwise specified, applies to all employees that routinely work with or are exposed to hazardous chemical(s) in their workplaces.

3. Definitions

a. Chemical Manufacturer. An employer with a workplace where chemicals are produced for use or distribution.

b. Container. Means any bag, barrel, bottle, box, can, cylinder, drum, reaction vessel, storage tank, or the like that contains a hazardous chemical. (For the purposes of this section, pipes or piping systems, engines, fuel tanks, or other operations system in a vehicle are not considered containers.)

c. Distributor. Means a business, other than chemical manufacturer or importer, which supplies hazardous chemicals to other distributors or to employers.

d. Employee. Means a worker (military or civilian) who may be exposed to hazardous chemicals under normal operating conditions or in foreseeable emergencies. Workers such as office workers or cashiers who encounter hazardous chemicals only in non-routine, isolated instances, are not covered.

e. Employer. Means a person engaged in a business where chemicals are either used, distributed, or are produced for use or distribution, including a contractor or subcontractor.

f. Hazardous Chemical. Any chemical that is a physical hazard or a health hazard per 29 CFR Section 1910.1200 (c), and with some exceptions as specified in the Community Right to Know Law of 1986 (Superfund Amendments and Reauthorization Act (SARA), Title III).

Enclosure (3)

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g. Hazardous Material (HM). Any material, as defined in 29 CFR 1910.1200, that is a hazardous material.

h. Hazardous Waste (HW). Any discarded substance as defined in 40 CFR 261 or applicable state regulations where the state has been granted enforcement authority by the Environmental Protection Agency.

4. Policy. This HAZCOM program plan shall be made available, upon request, to employees, their designated representative, or other government officials upon request.

a. Each employee or contractor working at [NAS Neversail] shall be appraised of the HAZCOM program and all persons working with or routinely coming in contact with hazardous chemicals shall receive training on the hazardous properties of HM and hazardous chemicals they work with and the precautionary measures needed for protection from these hazard(s).

b. All work location managers and workcenter supervisors shall ensure that each work area or shop maintains MSDSs for each HM used in that area, and that they are readily available to workers.

c. Only HM on the Authorized Use List shall be used at (insert command or activity). All HM received shall be properly labeled with, as a minimum, the chemical identity, trade name, appropriate hazard warnings, and the address of the manufacturer, importer or other responsible party.

d. [A Hazardous Material Control and Management Committee (HMC&M) shall be established to advise the Commanding Officer on HM authorized for local use, procedures to control and manage HM and hazardous chemicals, and implementation OF HAZCOM.]

#### 5. Discussion

a. Reference (a) established requirements for training and informing all employees of manufacturing and non-manufacturing sectors of the hazards associated with the chemicals with which they work or are exposed. To ensure worker safety, this instruction implements those requirements.

b. Paragraph (b)(4) of reference (a) recognizes that there are a number of work situations where employees handle only sealed containers of chemicals and, under normal conditions of use, would not open the containers and would not expect to experience any measurable exposure to the chemicals. Such work operations include, for example, warehousing, retail sales, marine cargo handling, and trucking terminals. The HMC&M

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Committee advises the Commanding Officer on those situations where certain aspects of the HAZCOM standard, as cited in paragraph (b)(4), are applicable.

6. Program Operations and Responsibilities

a. List of Hazardous Chemicals. [The Occupational Safety and Health Manager or other designee] is to maintain a list of all hazardous chemicals used in the facility by work location and a unique Material Safety Data Sheet (MSDS) Number, and will update the list on at least an annual basis in cooperation with all command organization elements. This list is also the Authorized Use List.

(1) The list of hazardous chemicals and the locations where HM is used is located in Building\_\_\_\_\_, Room\_\_\_\_\_, and is in the custody of Code \_\_\_\_\_.

(2) This list is verified in cooperation with independent local audits and third party [e.g., industrial hygiene, environmental engineer] surveys performed under the auspices of [e.g., NAVMEDCOM, NAVFACENGCOCOM, other].

(3) Additionally, [the Occupational Safety and Health Office or other designee] will distribute the HM list among key local offices, the duty office, fire department, host activity, and key medical officers and appropriate medical clinic(s).

b. MSDSs. [The Occupational Safety and Health Manager or other designee] is responsible for obtaining MSDSs for all hazardous chemicals utilized in the command or activity, and will maintain a reference library of MSDSs for each of the chemicals or materials contained on the List of Hazardous Chemicals. In addition, he or she will distribute MSDSs to various organization elements as needed for local requirements.

(1) A complete set of all MSDSs is maintained in Building\_\_\_\_\_, Room\_\_\_\_\_, and is in the custody of Code \_\_\_\_\_.

(2) MSDSs for individual workcenters are available and supervisors are to instruct employees on access and use.

(3) Individual MSDSs are reviewed on acceptance and periodically for completeness and accuracy and assigned a unique identifier to aid in retrieval and use by non-technical personnel and to relate the MSDS to a specific product. Technical guidance is sought from the local NAVMEDCOM industrial hygienist or NAVENVIRHLHCEN in event additional guidance or research is needed.

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(4) Identifying local requirements for MSDSs is accomplished by reviewing requisitions for HM in the approval process as a prerequisite for approval and use. At that time the Occupational Safety and Health Manager verifies or records the identity of the hazardous chemical and/or HM onto the List of Hazardous Chemicals. In event the hazardous chemical or HM is not on the list, a MSDS is requested from the vendor or is obtained from HMIS. Manufacturer information on the physical, chemical, toxic, and other hazardous properties of the material, plus the professional judgment by safety and industrial hygiene personnel, determine, in part, whether the material is or is not hazardous in its planned use.

(5) Corrective action is initiated, via procurement, in event a vendor(s) consistently provides incomplete or inaccurate MSDSs. E.g., inform the NAVSAFECEN of the deficiency so that a safety advisory may be sent to appropriate addressees, or inform the nearest Federal and state Right-to-Know contact of a violation of 29 CFR 1910.1200 (g)(5).

(6) All senior supervisory personnel of a major organization element, such as a department, are responsible for ensuring that all locally manufactured and distributed chemical products have an MSDS written consistent with Federal Standard 313, and that the material or product is on the authorized for use list/OSHA List of Hazardous Chemicals when appropriate. In all cases the cooperation and assistance of the Occupational Safety and Health Office and the command's designated industrial hygienist will be requested and documented as appropriate.

c. Labels and Other Forms of Warning

(1) [e.g., Supply Department] is designated to ensure that all HM centrally received at [command or shore activity] are properly labeled, and will initiate action with the manufacturer or vendor to obtain proper labels or properly labeled replacement product(s) as necessary.

(2) The manufacturers' MSDSs and HMIS are sources of information on hazard and storage compatibility for the DOD HAZCOM-compliant label.

(3) The labeling of HM intended for immediate use during the current work shift, though not required by 29 CFR 1910.1200, is a local safety requirement.

(4) [e.g., the OSH Manager or designee] and [\_\_\_\_\_] are responsible for performing routine periodic inspections to ensure that all hazardous chemical materials are properly labeled, in proper use, and hazard warnings are properly heeded.

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(5) [e.g., supervisor of department, etc.] is designated to ensure that all HM shipped by this command or shore activity to another installation or business organization are properly labeled for both consumers or users of the material, as well as conforming with DOT, postal, or other requirements as necessary. [ ] will refer to [ ] and MSDSs for labeling guidance and, as necessary, insert a copy of the appropriate MSDS in the container with the product. All labels used are approved by the HMC&M Committee.

(6) [e.g., the OSH Manager with the assistance of PWC personnel] is designated to identify pipes and piping containing hazardous chemicals or HM and ensure their labeling, placarding, or other means of identification. He or she shall also ensure that local procedures are established to maintain surveillance of such systems and that appropriate personnel are trained on the identification system and means of obtaining related MSDS information.

#### d. Training

(1) [e.g., The employee's supervisor] shall inform all new employees of the command or shore activity HAZCOM program, and schedule job-specific training with his or her supervisor. That latter training shall be accomplished within the [week or month] of employment.

(2) [ ], in cooperation with the Occupational Safety and Health Office, will perform the job-specific HAZCOM training. That training is routinely provided at \_\_\_\_\_ in accordance with DOD priorities summarized in paragraph 6d(5).

(3) All supervisors shall schedule job-specific training in event of process changes.

(4) HAZCOM training will emphasize the elements listed below:

(a) A summary of the OSHA HAZCOM Standard and this written program;

(b) Job-specific HM and hazardous chemicals to which personnel have contact; the chemical properties of the HM, including visual appearance and odor; and methods that can be used to detect the presence or release of hazardous chemicals;

(c) Physical and health hazards associated with the potential exposure to workplace chemicals;

Enclosure (3)

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(d) Procedures to protect against hazards; e.g., personal protective equipment, work practices, and emergency procedures;

(e) Hazardous chemical spill, leak, and disposal procedures; and

(f) MSDS locations, how to understand their content, and how employees may obtain and use appropriate hazard information.

(5) Training priorities are provided in OASD Defense Safety and Occupational Health Policy Program Policy Memorandum (SOHPPM 88-1), Subject: Hazard Communication, 09 FEB 1988 (NOTAL) for HAZCOM training of persons exposed to hazardous chemicals:

Priority

Group

A

Workers in occupational health medical surveillance programs due to workplace chemical exposures per reference (g) and DOD 6055.5-M (Occupational Health Medical Surveillance Manual).

B

Those personnel who work in jobs or areas where there is significant risk for accidental exposure to chemicals and the consequences of exposure would be severe. For example, flushing pipes with a solvent aboard a ship.

C

Those personnel who work in jobs or areas where there is a low potential for accidental exposure to chemicals, but the health consequences of exposure would be severe; for example, sealed containers in a confined space.

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D

All other personnel incidentally or occasionally exposed to workplace chemicals.

(6) Records of all formally required training shall be kept using local procedures established by OSH and personnel offices and will be retained at [ ] for a minimum of five years. HAZCOM training records related to job-specific HM applications and related controls will be retained for 40 years in a manner similar to industrial hygiene exposure monitoring records. A copy of training records will be forwarded for inclusion in personnel records by [ ], and copies of training records will be made available for transfer to other DOD employment offices upon request. In the case of HW personnel, 40 CFR 262.34, 264.16, and 265.16 require retention of records for HW personnel for the life of the facility. Records on former employees must be kept for at least 3 years from the date the employee last worked at the facility.

e. Non-routine Tasks

(1) All supervisors planning non-routine tasks involving HM shall ensure that the employees involved are trained and equipped to the same extent as required for routine tasks.

(2) Training to ensure that all employees are informed of non-routine chemical work hazards will be accomplished at a meeting attended by the supervisor(s), affected employees, and the Occupational Safety and Health Office prior to initiation of the scheduled work.

(3) Non-routine tasks training will be documented by the Occupational Safety and Health Office and coordinated with [ ] for inclusion in appropriate training and personnel records as with other training records in 5d(5).

f. Contractor Employers and Employees

(1) All supervisors are responsible for ensuring that contractor and contractor employees adhere to the policies of this program.

(2) [e.g., The contracting department, etc.] shall take action to write and use contract clauses that require adherence with this HAZCOM plan.

Enclosure (3)

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(3) Contractors and contractor employees are required to inform appropriate shore activity supervisors and the Occupational Safety and Health Office of hazardous chemical materials that they have brought aboard and to ensure that appropriate MSDSs are made available for their use.

(4) [e.g., The Security Manager] is designated to ensure that all contractors coming aboard the activity are informed of the activity HAZCOM program and declare and coordinate the use of HM brought aboard the activity with the OSH office and the supported workcenter.

(5) [e.g., the OSH Manager or the designee] and [e.g., the supervisor of the work area involving contractor services] will inform the contractor of chemical hazards to which the contractor or his employees may come in contact, respectively, and ensure proper disposal of any associated HW. The appropriate work center area will provide access to MSDSs upon request. In situations where there is no work center, the Occupational Safety and Health Office will provide appropriate MSDSs to the contractor or his designated representative.

g. Host/Tenant Command and Other Relationships

(1) The [e.g. Occupational Safety and Health Office or other designee] is responsible for distributing the shore activity List of Chemicals used, produced, or stored at various workplaces and locations to other Commands, shore activities, offices, and community businesses having a written and sanctioned use.

(2) The emergency availability of information from the Authorized Use List and MSDSs can be arranged or obtained from the Command Duty Office on a 24-hour basis by contacting [\_\_\_\_\_] at Phone \_\_\_\_\_ in Bldg. \_\_\_\_\_, Room \_\_\_\_.

(3) Routine access to information on the Chemical List and MSDSs is available at the Occupational Safety and Health Office. That office is located in Bldg. \_\_\_\_\_, Room \_\_\_\_\_, and may be contacted by calling \_\_\_\_\_.

h. Program Information. Further information on this program plan can be obtained from [\_\_\_\_\_] or [\_\_\_\_\_].

7. Action

a. Assigned individuals shall execute their specific responsibilities as stated.

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b. All supervisors and employees are responsible for ensuring that only authorized and officially acquired material are used in work operations.

c. Organization components and supervisors shall execute their assigned responsibilities as stated in this instruction and assist staff members named herein in the conduct of their responsibilities.

d. Annual performance ratings will reflect performance with the policies and requirements contained herein.

Note: If Commander or Commanding Officer decides not to establish an HMC&M Committee, specific action requirements for each staff and organizational element should be stated as an action subparagraph.

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HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)1. Background and Discussion

a. The Department of Defense (DOD) established HMIS to acquire, store, and disseminate manufacturer's data on hazardous material (HM). The system provides a means to share and communicate information on HM procured by a single DOD activity with all other commands, activities, and units within the entire DOD. The overall operation of HMIS is prescribed in DOD Instruction 6050.5 of 25 January 1978 (NOTAL). This enclosure discusses the Navy's implementation and operation of the HMIS.

b. The Defense Logistics Agency (DLA) manages the DOD HMIS and maintains a computerized central repository of data, on all HM purchased for use within DOD. Local users receive MSDSs via vendors or suppliers who are required to supply them per FAR 52-223-3 and and FED-STD 313C (NOTAL). Material Safety Data Sheets (MSDSs) sent by local users to a service focal point are the means by which the central data repository is updated.

c. The provisions of this enclosure and DOD Instruction 6050.5 of 25 Jan 1978 (NOTAL) are not applicable to: 1) HM purchased by the military exchange systems for subsequent resale, though the sale of that material may be regulated by the Consumer Product Safety Commission or other regulatory agencies; or 2) the acquisition of laboratory quantities of chemicals or other HM when used by qualified professionals in Navy laboratories as defined in enclosure (1). In both these situations, however, the special provisions of the OSHA Hazard Communication Standard, reference (a), apply as discussed in enclosure (2).

2. System Operation

a. Vendors and Suppliers. Vendors selling material to DOD activities are required to submit a fully completed MSDS, e.g. an OSHA 174 depicted in Figure 1, and submit it to the procuring activity per the procurement contract. Instructions for completing the MSDS forms are contained in the FED-STD 313C (NOTAL). While a vendor may submit an MSDS that is formatted differently than an OSHA 174, it must contain all the data elements on OSHA 174.



# Appendix F

**HAZARDOUS MATERIALS**  
**CONTROL AND MANAGEMENT GUIDANCE**

20 JUN 1989

GUIDANCE ON IMPLEMENTING  
HAZARDOUS MATERIAL CONTROL AND MANAGEMENT (HMC&M)  
PROGRAM ELEMENTS

1. Introduction. This enclosure is for guidance only. Its purpose is to provide discussion on the principal elements of HMC&M programs and guidance for developing shore activity HMC&M plans, programs, instructions, and procedures. Attention is directed to applicable state and local codes, standards, and regulations that may be and often are more stringent than Federal requirements, especially in regard to environmental and hazardous wastes.

2. HMC&M Program Elements. The guidance contained herein is based upon the policies and requirements of the basic instruction and other Department of Defense (DOD) and Navy instructions that relate to TQM and HMC&M. It incorporates aspects of existing programs together into a TQM and HMC&M effort. The program elements are summarized as follows, and individually discussed below:

- . A HMC&M Committee,
- . A HM Inventory and Authorized Use List,
- . Material Safety Data Sheets (MSDSs),
- . Labeled HM and HW Containers,
- . The Safe Use of HM,
- . Acquisition Controls over HM,
- . Controlled Receiving, Distribution, Issuing, and Shipping of HM,
- . Storage of HM,
- . Management of EHM and HW,
- . Emergency Response Planning,
- . Shore Activity Oversight of HM Activities,
- . Program Plan and Documentation,
- . Recordkeeping and Reporting.

a. HMC&M Committee. This Committee should be established to advise the commander or commanding officer on the policies and procedures to implement an HMC&M program and to assist in the implementation of the shore activity program. The Committee should be multidisciplinary and bring together the various organizations and groups having functional responsibilities and authority over HM. The chairperson of the committee should be the Commanding Officer, or designee (e.g., Executive Officer). Appendix A provides a typical committee charter, committee composition, and functions.

b. HM Inventory and Authorized HM Use List. A current inventory of HM, chemical substances, or components known or suspected to contain HM should be developed and maintained

Enclosure (2)

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following references (e) and (g) to control and manage material. Secondly, a list of hazardous chemicals is a requirement of the HAZCOM Standard. Each HM on the inventory should be assigned a unique identifier that relates it to a MSDS with the same identifier, thus aiding filing and correct MSDS use by non-technical and emergency response personnel. Including that information on the inventory also fulfills the requirement for a list of hazardous chemicals in the workplace, and a means of ready access to the applicable MSDS. The annual inventory should be used to:

(1) Identify HM use by location so that appropriate action is taken to ensure proper controls are in place for storage, use, and OSHA Hazard Communication (HAZCOM) training; Spill Prevention, Control and Countermeasures (SPCC) plans; Spill Contingency Plans (SCP); and notification of Local Emergency Planning Committees (LEPCs) in event of a release of a reportable quantity of material.

(2) Identify HM authorized for local acquisition and use. Local workcenters or codes should maintain a current inventory of items authorized for local use and keep it current via notations for items authorized for use, for MSDS identifier, for disposal procedures, etc. A consolidated HM inventory should be maintained at a central reference location.

(3) Form the basis for eliminating or disposing of unneeded materials safely and properly.

c. MSDSs. Reference (a) requires that each shore activity using HM in its work operations and processes possess a manufacturer's MSDS for each HM item on hand and that it be easily accessed by workers. For material not having an MSDS, take the necessary action to obtain one. MSDSs on hand or received with incoming materials are a key to identifying HM at the shore activity, as well as supporting the following HMC&M functions of the shore activity's MSDS focal point:

(1) Reviewing manufacturer's supplied MSDS to ensure required data elements are completed and to identify materials containing hazardous ingredient(s).

(2) Participating in the DOD Hazardous Material Information System (HMIS) for locally procured HM.

(3) Ensuring proper labeling and the safe use of working quantities of HM in the workplace.

(4) Informing employees and contractors of hazards (see subparagraphs 2e(5), 2e(6), and enclosure (3) and safeguards for

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those HM to which they may be potentially or occupationally exposed.

d. Labeled HM and HW Containers. Each container of material possessing hazardous ingredients should be properly labeled by the manufacturer and/or shipper(s) to warn personnel of the potential dangers of the material. In the event warning labels are inadvertently removed or damaged in shipping prior to receipt by shore activities, commercial suppliers should be required to provide HAZCOM-compliant replacement labels. Activities are not required to put DOD or other HM warning labels on new stocks because the manufacturer is responsible for placing a warning label on it that conforms with the HAZCOM standard. Shore activities are not to relabel existing stocks that conform with the HAZCOM standard. Requirements for labeling are described below:

(1) OSHA labeling requirements are provided in reference (a) for workplace use of HM. This OSHA standard requires that containers of HM be labeled, tagged, or marked with the identity of the hazardous chemical(s); appropriate hazard warnings; and the name and address of the chemical manufacturer, importer, or other responsible party. In addition to OSHA labeling requirements, Federal and military marking standards (Federal Standard No. 123 (NOTAL) and Military Standard 129 (NOTAL)) require precautionary labeling to guide those who use and handle HM.

(2) The EPA, Consumer Product Safety Commission (CPSC), the Food and Drug Administration (FDA), and the Bureau of Alcohol, Tobacco, and Firearms (BATF) also require labeling of HM and HW under their jurisdiction. When labeling requirements are met under EPA, CPSC, FDA, or BATF, specific labeling requirements under the OSHA HAZCOM standard are not required.

(3) DOT labeling and marking requirements apply to the transportation and shipping of HM. Activities that do not have Title 49 of the Code of Federal Regulations (49 CFR 172.101), are authorized to use the Joint Directive AFR 71-4/NAVSUP PUB 505/MCO P4030.19 (NOTAL) to determine labeling requirements for military air and all surface shipments. Questions on the proper packaging and labeling of HM for transportation may be resolved by writing or calling:

Navy Mat'l Transportation Office  
Code 033.B  
Naval Station  
Norfolk, VA 23511-6691  
AV 564-7388  
COMM (804) 444-7388

Navy Mat'l Transportation Office  
Bldg. 221  
Code 00XD-EP  
Oakland, CA 94625  
AV 836-5135/5376  
COMM (415) 466-5135/5376

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(4) Bulk storage tanks also require precautionary labeling but alternate methods of compliance, such as marking tanks with an identifier that relates them to a specific MSDS, may be used for fixed tanks under proper conditions of training and the nearby availability of MSDSSs.

(5) Transfer of chemical materials from a bulk or large container to a smaller, different container should be documented by affixing a label or marking on the new container that possesses the identity of the material and appropriate warnings. It is strongly recommended that all HM containers, including temporary, immediate use, and single use containers, be marked with the common name of the contents and appropriate warnings to prevent mishaps, improper use, and costly chemical analysis prior to disposal per current HW regulations.

(6) Labeling of pipes and piping is not required by the HAZCOM standard, but it is Navy policy that local procedures to identify their contents be established and personnel trained thereon. See also MIL-STD 101A.

NOTE: A HAZCOM-compliant HM label recently developed by DOD is expected to have the following applications in the future: Labeling hazardous chemicals manufactured within DOD (if required, specific ingredients, composition, or properties may be protected for national security reasons); repackaged containers of hazardous chemicals; marking tanks, vats, or similar vessels of hazardous chemicals in lieu of placards, stencils, or other methods; labeling unlabeled HM already in the DOD inventory when appropriate MSDSSs or labeling parameters are available. The HMIS, managed by the Defense Logistics Agency (DLA), is being expanded to include labeling information for use with the DOD HAZCOM label.

e. The Safe Use of HM. HM should be handled and used only under the following minimum conditions:

(1) The HM appears on the HM authorized use list for the workplace/workcenter in which it is used. This includes the procedures for and conditions of HM use have been evaluated and approved.

(2) The HM is used and stored in the minimum quantities required to accomplish the mission.

(3) Personal protective equipment and requisite safety, emergency, and spill cleanup and containment equipment are readily available.

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(4) Employees are adequately informed and understand HM hazards and necessary protective measures via HAZCOM training (i.e., training on the safe use of the material, HM warning properties, needed safeguards and personal protective equipment, proper disposal techniques and procedures, and access to MSDSs). Appendix B of this enclosure provides guidance for preparation of local training programs to meet HMC&M needs. In addition to training, the OSHA HAZCOM standard requires that each activity prepare and keep current a HAZCOM program plan. An example of such a plan is provided in enclosure (3).

(5) Contractors are informed of HM with which they may be exposed and are required to inform a designated person about HM to which Navy personnel may be exposed. Similarly, contractors must make MSDSs for their HM available to the supported activity. Pending a change to the Defense Federal Acquisition Regulations Supplement (DFARS), a locally developed clause to the effect that "Contractors shall inform the designated activity representative of all contractor used HM to which Navy personnel are exposed and shall provide MSDSs for those materials to the activity representative" should be developed.

(6) Local procedures are developed and implemented to ensure that employees performing non-routine tasks involving HM are trained, equipped, and kept under appropriate medical surveillance in advance of such work to the same extent as required for routine exposure situations.

f. Acquisition Controls over HM. Local procurement controls and audits should be established as needed. They should be sufficiently stringent to ensure that only authorized material on the HM inventory list are obtained and that manufacturers comply with labeling and warning requirements. Shore activity policies should address the following:

(1) Acquisition of HM should originate with the requester and immediate supervisor, who should be accountable for requesting only authorized HM in approved, minimum quantities (Note: obtaining and reviewing an MSDS should be a prerequisite for placement of HM on the "authorized HM use list").

(2) Reviews of requisitions and purchase order agreements (BPA) should be accomplished prior to execution of orders to ensure that only material "authorized for use" is obtained in approved quantities. If the item on the Authorized Use List replaces a standard stock item deemed inferior, the following information shall be provided with the procurement request to the supply officer for corrective action: item name, description of product and statement as to why it is inferior, and estimated yearly quantity requirement. In turn, the supply officer

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prepares a Report of Deficiency or Quality Deficiency Report (SF364 or 368).

(3) Initial requests for HM newly placed on the Authorized Use List should include notifying the procurement activity to include instruction on the purchase order for appropriate "clauses" to ensure labeling of HM containers and delivery of an MSDS with the HM shipment.

(4) HM requisitions should clearly designate the user code, workcenter, or shop so that incoming MSDSs can be routed to the central MSDS reference files, HM user codes, and other codes having a need for current MSDS data.

g. Safe and Controlled Receiving, Distribution, Issuing, and Shipping of HM. HM should be processed following policies and standards. Local policy should address specific functions as follows:

(1) On receipt by Supply, inspect material to determine if it is on the authorized HM use list, whether labeling of the material is sufficient, and an MSDS is available. If it is HM and does not conform to established standards, specifications, and regulations, it should be placed in appropriate temporary hold until manufacturer-supplied labels, MSDSs, or acceptable substitutes are obtained;

(2) Provide prompt, safe storage for incoming HM deliveries, and

(3) Acquire and maintain MSDSs and technical data as needed for stocked HM.

h. Storage of HM. HM should be stored in minimum required quantities in facilities that conform with Navy Design Manual (DM) 32.2 (NOTAL). MSDSs and HMIS provide useful information on warehouse storage and storage compatibility codes for HM. The use of underground storage tanks is discouraged. All locations for temporary and permanent storage for HM and HW, including bulk storage and tanks, must be approved by the commanding officer or designated representatives. Navy shore activities are not to store or to dispose of unowned HM.

i. Management of EHM and HW. Disposition of EHM and HW generated by the use of HM or other material must comply with all Federal, state, and local laws and regulations, and with the recommendations of the staff environmental engineer or designated individual responsible for collection, segregation, labeling, and transportation. **It should be noted that state and local regulations are often more stringent than Federal laws and regulations.** EHM should be transferred to the designated Navy

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shore activity (usually a Public Works Center) or a Defense Reutilization and Marketing Office (DRMO). Determining when to call a HM a HW is made by the DRMO. DRMO determines when EHM it receives becomes HW, and is responsible for disposal action. Shore activities may, in some situations, generate HW as part of processes or operations. Comprehensive guidance is contained in reference (e). Principal requirements in reference (e) include:

(1) Identification of Wastes as HW. A shore activity must first determine whether its generated waste is hazardous per 40 CFR 261. If the waste is hazardous, the next step is to determine whether or not the threshold monthly generation rates, accumulation rates, or accumulation quantities are exceeded. If threshold rates or accumulation quantities are not exceeded, the generator is a "small quantity generator" subject to RCRA requirements only to the extent indicated in 40 CFR 261; i.e., the HW must be treated and disposed of on-site in facilities that are permitted by EPA or a state, have interim status, or that are permitted, licensed or registered by a State or be delivered to an off-site treatment, storage or disposal facility which meets the same requirements. If these rates or quantities are exceeded, the generator is subject to all RCRA requirements pertaining to generators and the waste is entirely regulated.

(2) Notifications of Hazardous Waste Activity. All HW generators should have already filed a "Notification of Hazardous Waste Activity" with EPA or the state as applicable, and possess an identification number issued per RCRA requirements. Additional notification is required for changes in status, as the generation of a new HW, and such notifications should receive review by an activity engineer or the cognizant NAVFACENCOM EFD prior to submission.

(3) Temporary On-site Storage of HW. HW stored (accumulated) on-site no longer than 90 days does not require an EPA permit for the storage; however, state and local government regulations may be considerably more restrictive. Temporary storage facilities must meet certain minimum requirements of 40 CFR 265 for personnel training, contingency plans, and physical layout.

(4) EHM Documentation. EHM transferred to a DRMO for reuse, transfer, donation or sale must be accompanied by a DD 1348-1 "Turn-in Document" completed under DOD 4000.25-1-M (NOTAL) and DOD 4160.21-M of September 1982 (NOTAL). If the DRMO cannot reuse, transfer, donate, or sell the material, it becomes a DRMO generated HW and the DRMO fills out the appropriate manifest for final disposal.

(5) HW Manifest. HW shipped off the shore activity station over public roads for disposal or any other purpose must

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be labeled and manifested (the manifest is to include a 24-hour telephone number). The manifest is a specific form required by a state and/or EPA to comply with RCRA. If the state receiving the HW or state of HW generation do not have specific manifest forms, then the uniform manifest (EPA 8700-22A) is used. The manifest is a shipping document which must originate from and be signed by the designated generator and EPA permit holder having a RCRA Identification Number before the HW may be transported or offered for transportation off the installation. The generator must provide specific information on the manifest per 40 CFR 262 as well as designating one permitted TSD facility to handle the waste. An alternate permitted facility should also be named or specified. Contact the applicable regulatory agency (state or EPA) to determine the specific forms required and obtain a supply of the forms.

(6) HW Labeling. All Navy activities should arrange for or perform labeling of their HW for ultimate disposition via DRMOs or contract. The HW label identifies container contents and hazards, and varies by state. Contact the applicable regulatory agency (state or EPA) to determine the specific label required and obtain a supply of the labels.

(7) Hazardous Waste Minimization (HAZMIN). EHM and HW should be minimized at the source or recycled/reclaimed/sold prior to disposal whenever feasible as described in reference (e).

(8) HW Treatment, Storage, and Disposal (TSD). Navy shore activities (including tenant activities) that own or operate permitted TSD facilities can expand or significantly change "interim status" only with the approval of Regional EPA offices. Interim status cannot be conferred on a new TSD facility if construction commenced after 19 November 1980. In such instances shore activities should apply for and obtain a final permit before construction may begin. Reference (e) provides further specific details and a summary of interim status standards for TSDs.

(9) Transportation of HW. All HW shipped over public roads must be shipped by manifest. Transporters of HW are also required to have notified EPA as a HW transporter and have obtained an identification number. The transporter is subject to EPA transportation requirements in 40 CFR 263 which, in part, incorporates DOT regulations concerning labeling, marking, placarding, use of proper containers, and spill reporting. **State regulations may further require licensing or permitting of HW transporters.** Shore activities should develop a checklist for the safe transport of HW over public roads that is specific to their needs and vicinity.

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(10) Application to Navy Ships. Specific requirements for Navy ships are in Chapter 12 of reference (e) and Chapters B1 and C23 of reference (f). That guidance requires ships to comply with all receiving shore activity procedures for the transfer of HW ashore and arrange for the receipt of the waste through the shore activity HW coordinator. In instances where Navy ships transfer HM (ships' HMTIS) and EHM (ships' HMTID) ashore, responsibility for proper management is transferred to the receiving shore activity; however, ships' forces are required to have HMTIS and HMTID properly containerized, labeled, and have the correct offloading documentation available.

j. Response Planning. Written emergency procedures or Spill Contingency Plans (SCPs) should be developed as applicable to contain, control, and resolve spills, leaks, and other situations involving the release of HM or HW to shore activity workplace or community environments. Plans should include requirements for training regional Navy On Scene Coordinators (NOSCs) and shore activity On Scene Commanders (NOSCDRs) in HM response actions, identification and recognition of NOSCDRs by local shore activities, and notification of Local Emergency Planning Committees (LEPCs) in event a release exceeds the designated reportable quantity of material. HM received from ships should be included in threshold quantity calculations of the receiving activity for notification purposes. In addition, each shore activity should identify one official to act as the point of contact for local preparedness committees such as the LEPC. Refer to reference (e) and 40 CFR 300 Subpart I for additional specific guidance and requirements related to environmental protection, and reference (h) for OSH responsibilities.

k. Shore Activity Oversight of HM Activities. The commanding officer should designate a person(s) or organization entity to develop a written annual review of the shore activity's HMC&M program to assess its attainment of objectives, the effectiveness of its HM plan, and to recommend changes and improvements to the plan. The review should be provided to the HMC&M Committee for review and development of appropriate action responses, including changes to the HMC&M plan.

l. Program Plan and Documentation. Written HMC&M plans should combine established plans for HM, HW, and HAZCOM. The safe use of HM and the effectiveness of HAZMIN efforts depend, in part, on controlling HM availability. HAZCOM activities supplement those efforts by communicating to managers, supervisors, and workers alike the priorities and procedures for HMC&M at the working level. The HMC&M plan should address all the program elements discussed in this enclosure and should aim to control, manage, and reduce the number and quantity of HM used at workplaces; reduce the quantity of HW generated; and control and manage generated HW.

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m. Recordkeeping and Reporting. Recordkeeping and reporting is essential to HMC&M. The following subparagraphs summarize recordkeeping and reporting requirements of references (e) and (g). It should also be noted that EPA has authorized state environmental agencies to administer HW programs; consequently, many of the following reports will be submitted to states, depending upon circumstances.

(1) Inventory of HM. Data elements identified in paragraph 2b may be supplemented with additional ones to meet shore activity needs for inventory control, occupational health surveillance, hazard communication training requirements, and SARA Title III emergency planning requirements.

(2) Training Records. Records of individuals' HAZCOM training accomplishments should be maintained at the shore activity per reference (g). See reference (e) for the additional recordkeeping requirements needed to conform with RCRA training requirements.

(3) HW Generator Recordkeeping. All HW generators, including small quantity generators, must retain each manifest. Copies of reports filed with EPA must be retained for three years. Records of HW test results or waste analyses must be kept for three years from the date the waste was last sent to a TSD facility. Small quantity generators must also manifest their HW per 40 CFR 262.20.

(4) HW Generator Reports. HW generators must submit biennial reports (402 CFR 262.41) to states and the appropriate Regional EPA Offices. "Exception reports" must be provided to Regional EPA Offices immediately if the TSD facility designated to receive HW has not returned a copy of the manifest within 45 days of the date the HW was shipped (in 40 CFR 262). Shore activities should also be alert to any special state requirements that may apply.

(5) HW Transporter Recordkeeping. Copies of manifests signed by the generator, the transporter, and the TSD owner or operator must be maintained for three years from the date the HW was accepted by the original transporter. Check local and state requirements to determine actual requirements for HW transporter reports and records.

(6) HW TSD Reports. TSD permit holders (except in states issuing permits to transporters) and operators of TSD facilities must submit annual reports to Regional EPA Offices and states. "Unmanifested waste" reports must be filed with the Regional EPA Offices within 15 days from the time a TSD facility accepts HW that is not accompanied by a manifest. Additional reports are

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required for specific types of TSD facilities and may also be required by states.

(7) Navy HW Annual Report. All Navy shore activities that generate, store, treat and/or dispose of HW, and are subject to local, state, or Federal HW regulations, are to prepare an annual report per OPNAVNOTE 5090 Ser 451/9U584066 of 30 March 89 which supercedes reference (e) guidance in this regard. The completed annual report for each calendar year is to be forwarded by 31 January directly to the Naval Energy and Environmental Support Activity, Port Hueneme, California 93043, with a copy to the cognizant NAVFACENCOM EFD. Further details on this report are contained in the NEESA Hazardous Waste Annual Report Guide, which is updated annually.

(8) Mishaps. Report all HMC&M incidents which are a risk to environment per reference (e) and those involving safety and health per reference (h).

### 3. Special Considerations for HAZCOM Standard Compliance

a. Laboratories. Laboratories, as defined in enclosure (1), are accorded special provisions with respect to implementation of HAZCOM. In conformance with paragraph (b)(3) of reference (a), DOD policy, and the policy of the basic instruction, laboratories are required to:

(1) Ensure that labels on incoming containers of HM and hazardous chemicals are not removed or defaced;

(2) Acquire, maintain, and process MSDSs and ensure that they are readily accessible to laboratory employees;

(3) Ensure that laboratory employees are apprised of chemical hazards in their workplaces per reference (a), and paragraph 3a(1);

(4) Cooperate with and provide technical guidance to the host shore activity HMC&M program in order to facilitate the overall HMC&M Program.

(5) Implement all HMC&M program elements to the extent feasible and compatible with the laboratory mission.

b. Work Operations Involving Sealed/Closed Containers. Work operations where employees handle chemicals in sealed containers which are not opened under normal conditions are also a special consideration under reference (a). Examples of such operations include cargo handling, warehousing, retail sales, and certain office occupations. See reference (a) paragraph (b)(4). In those situations shore activities should, as a minimum:

**TRAINING REQUIREMENTS FOR  
HAZARDOUS MATERIAL  
CONTROL AND MANAGEMENT**

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SUGGESTED TRAINING REQUIREMENTS  
FOR  
HAZARDOUS MATERIAL CONTROL AND MANAGEMENT (HMC&M) PERSONNEL

1. Introduction. Pending establishment by CNET of training materials, this appendix provides guidance for preparation of local HMC&M training programs. There are four basic requirements for such training. These are:

a. The policies and procedures established in this OPNAV Instruction. Training as to functions and responsibilities is necessary for the various categories of personnel involved in the HMC&M program.

b. OSHA and EPA Hazardous Waste and Emergency Response Training as specified in 29 CFR 1910.120 and 40 CFR 264.16, and reference (e). These include, among others:

(1) 24-hour initial and 8 hour annual refresher courses for supervisors, HW operations staff; and Emergency Response, Spill and Clean Up personnel.

(2) Supervised on the job training and one week special Resource Conservation Recovery Act (RCRA) HW training per reference (e) within 6 months of employment, and annual refreshers for HW operations supervisors and HW personnel.

c. The specific workplace exposure training called for by 29 CFR 1910 (e.g. for persons exposed to lead, asbestos, etc.).

d. The requirements for informing employees of hazards in their workplace in 29 CFR 1910.1200, the OSHA Hazard Communication Standard (HAZCOM). Guidance on the overall requirements in the HAZCOM Program Plan are in enclosure (3) of this instruction. Echelon 2 commands have received the videotapes, Student Workbooks, and Trainers' Guides for the DOD/Federal Agency HAZCOM Training Program. Shore activities should use these as the basis for the minimum essential HAZCOM requirement. Additional in-depth training or specific chemicals or types of chemical/hazardous materials may be needed to augment local training programs.

2. Suggested curricula. The following curricula outlines provide a suggested comprehensive, integrated training program for the broad scope of TQM and HMC&M needs. Detailed training presentations should be based on a careful review of local site specific needs; and applicable regulatory requirements. These will vary with the activity's mission and associated hazards; and state and local requirements, in addition to federal, DOD, and USN codes, standards and regulations. The following "topic

Appendix B to  
Enclosure (2)

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areas" are suggested for the various categories of personnel concerned with HMC&M (i.e., from top management on through the several operational and functional areas).

Topic A: Top Management Personnel

I. The Program

A. Legal requirements

1. OSHA
2. RCRA, CERCLA, SARA Title III
3. Executive Orders
4. DOD and Navy directives and instructions

B. Scope

1. No. of persons using HM locally
2. No. of HMs used locally
3. No. of operations and processes using HM
4. No. of operations and processes generating HW
5. Training requirements
  - a. HAZCOM for personnel using HM
  - b. Job and specialized training for personnel involved in HM and HW management and control activities

C. Objectives of program

II. The Plan

A. Approach and Program Elements

B. Responsibilities

1. Users and supervisors
2. Supply (purchasing, receiving, distribution, shipping)
3. Public works
4. Fire Department
5. Safety
6. Environmental Protection Coordinator/Engineer
7. Hazardous Materials Control Committee
8. Commanding Officer

C. Emergency Response Plan and Procedures

D. Key Focal Points

III. Program Issues

- A. Past
- B. Present
- C. Anticipated

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Topic B: Membership, Hazardous Materials Control Committee

- I. Highlight material as in Topic A, Articles I, II, and III.
- II. Charter for Hazardous Materials Control Committee
- III. Committee organization, assigned responsibilities, and modus operandi for meetings.
- IV. Inventory List of Hazardous Materials indexed by activity, by work operation, by location, and by chemical name and class.
- V. Documentation requirements for local use of an authorized material
- VI. Requirements and procedures for the committee to authorize local use of a hazardous material

Topic C: Supervisory Personnel

- I. Appropriate discussion of same materials as in Topic A, Articles I, II, and III.
- II. Supervisor responsibilities:
  - A. Knowledge and awareness of work to be performed
  - B. Safeguard personnel assigned per the Occupational Safety and Health Act (Sect.19, E.O. 12196)
  - C. Reporting of hazards
  - D. Procedures for reporting and investigating allegations of reprisals
  - E. Procedures for abatement of hazards
  - F. Program management and the motivation of employees
  - G. HAZCOM training of employees
  - H. OSHA and RCRA training for employees of employees
  - I. HM requisitioning and approval process; acquisition and purchase of approved materials, only
  - J. On-the-Job training (OJT), remedial and refresher job training applications
  - K. Recordkeeping requirements: occupational accidents, illnesses, training
  - L. Emergency notifications and responses

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- III. Employee rights and responsibilities
  - A. OSH Act
  - B. HAZCOM training, MSDSS, labeling
  - C. Other relevant rules and procedures of the activity
  - D. Notification of supervisor of perceived unsafe and unsafe situations discovered.
  - E. Communications with supervisor
  - F. Recordkeeping methods and procedures
  - G. Requisitioning material, especially HM, and approval process (check to see if material is authorized for purchase and use).

Topic D: Full Time and Collateral Duty Personnel

- I. Appropriate discussion of same material as in Topic A, Articles I, II, and III.
  - A. Organization responsibilities and relationships, by department, division, section
  - B. Ongoing program of activities
  - C. Work procedures
  - D. Key points of contact
  
- II. Training Requirements for command occupations
  - A. OSHA: 29 CFR 1960 and 29 CFR 1910
  - B. HAZCOM: 29 CFR 1910.1200
  - C. RCRA, EPA: 40 CFR 264.16
  - D. DOT: 49 CFR 172.101
  - E. OPNAVINSTs
  
- III. Recordkeeping requirements and reports
  - A. RCRA
  - B. OSHA HAZCOM
  - C. SARA Title III (federal and private sector aspects)
  - D. Record forms and procedures for processing
  - E. Report and plan update cycles, tickler file
  
- IV. Emergency Response Procedures, POCs, telephone numbers
  - A. Fire Department
  - B. Public Works
  - C. Medical
  - D. Command, public affairs
  - E. Higher authorities
  - F. Community notifications and services

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Topic E: Supply, Procurement, & Acquisition Personnel

- I. Discuss as appropriate material in Topic A, Articles I, II, and III.
- II. Labeling and MSDS requirements
  - A. FAR
  - B. DAR
  - C. MIL-STDs
- III. HMIS operations and relationship to shore activity program

Topic F: Supply, Procurement, & Acquisition Personnel (Job-specific)

- I. HM Control methods and operations
  - A. Inventory list of HM
  - B. Authorized HM designations on the inventory list
- II. Responsibilities for review of requisitions, purchase orders
- III. Information and processing requirements for effective, centralized repository of local HM MSDSs.
  - A. Identification and coordination of command/activity HM "customer or consumer" with MSDS focal point
  - B. Documentation of contract number, NSN, manufacturer, and manufacturer's address for local purchase HM (to accompany those MSDSs intended for inclusion in the HMIS)
  - C. Activity focal point for MSDS processing
  - D. Sources of information, references

Topic G: Receiving, Shipping, & Warehousing Personnel

- I. Discuss as appropriate material in Topic A, Articles I, II, and III.
- II. Key role in controlling identifying and controlling HM at the activity
  - A. Identifying HM as received
  - B. Inspecting for leakers, adequacy of labeling
  - C. Determining if MSDS is on hand in central, repository
  - D. Initiating receipt of hardcopy MSDS when required.
  - E. Initiating receipt of proper HAZCOM labels or replacement product for materials received with inadequate labeling
  - F. Applying new DOD HAZCOM-compliant label when available

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- G. Prompt and safe movement of HM to temporary or permanent storage, or to the customer if adequate contained, labeled, and MSDS is available
- H. Initiating spill notifications, containment when necessary .
- I. Compatible storage requirements for hazardous chemicals (i.e., oxidizers, corrosives, etc.)

Topic H: Receiving, Shipping, & Warehousing Personnel (Job-specific)

- I. The purpose for and resources that should be available
  - A. Comprehensive HM inventory for the activity, identifying those items approved for local use
  - B. HMIS data and MSDSs for HM on the activity for precautionary safeguards, first aid, health effects, and labeling guidance
  - C. Spill Containment and Contingency Plan, plus key points of contact: Fire Department, Safety, Medical, Public Works, Security
  - D. HAZCOM compliant labels for application to stocked items without adequate labels
  - E. Other local sources of technical information and assistance in the handling and labeling of HM
- II. Duties and responsibilities (how-to-do-it-training)
  - A. Receiving and inspecting
  - B. Labeling (receiving and shipping--DOT)
  - C. MSDSs
  - D. Distributing (hold, stock, customer)
  - E. Key points of contact and sources of information
  - F. Emergency situations and responses
  - G. Preparation of shipping documentation
- III. Other training as required:
  - A. HAZCOM--basic DOD program
  - B. Operation and use of manlifts
  - C. Operation and use of fork-lifts
  - D. Emergency and Fire Plans, evacuation routes
  - E. Ventilation
  - F. Flammable and combustible liquids, flooding emergencies
  - G. Liquified petroleum
  - H. Respiratory protection
  - I. Fire extinguishing procedures and systems
  - J. Powered industrial trucks
  - K. Asbestos
  - L. Noise

## **HAZARDOUS MATERIAL INVENTORY**

10/12/97

HAZARDOUS MATERIAL INVENTORY

NOMENCLATURE	NSN	QTY	UI	MTHLY USAGE
Adhesive, Rubber	8040001092481	2	TU	1
Adhesive, Electric	8040000618303	2	KT	2
Adhesive, RTV	8040008430802	3	TU	1
Alcohol, Denatured	6810005437415	4	GL	3
Alcohol, Isop. Tech	6810009838551	1	QT	2
Alcohol, Isop. ACS	6810002270410	1	GL	1
Alcohol, Iso TECH	6810007534993	0	CN	1
Alkyd, Odorless	8010008238012	4	CN	1
Anti-freeze 55 gl	6850001817940	2	BR	1
Anti-seize compound HT	8030000592761	1	LB	1
Anti-seize compound	8030008314171	1	TU	1
Anti-static&Clng Cmp	6850008826690	1	CN	1
Brake fluid pint	9150001900932	2	CN	1
Brake fluid pint	9150011029455	2	CN	1
Bond Seal, Repair	8040007770631	4	KT	1
Caulking compound	8030002430946	4	GL	1
Chloride solution	6810011293762	3	BT	4
Clean, Lub Comp Elec	6850000031194	1	CN	1
Cleaning Compound Slvnt	6850002246665	2	CN	1
Cleaning solvent	6850LLL002625	6	CN	3
Coating, Zinc chromate	8010008998825	4	CN	2
Corrosion, Preventive	8030010411596	2	CN	2
Corrosion, Preventive	8030009620685	1	CN	1
WD-40	2030002133279	0	GL	1
Cramolin-Red	6850008807007	1	CN	1
Decon agent DS-2 5 GL	6850007534870	14	CN	0
Decon agent DS-2 1 Qrt	6850007534827	17	CN	0
Decon app. DS-2	4230011334124	14	CN	0
Decon agent STB 50 lb.	6850002976653	5	CN	0
Desiccant-Activated	6850002900042	0	CN	1
Desiccant, Activated	6850002646573	1	BG	7
Detergent, GP	7930002829699	1	GL	1
Detergent, GP	7930003577386	9	BT	4
Detergent, GP	7930009265280	5	BT	2
Detergent, GP	7930009856911	0	CN	1
Dichlorodifluoromethane	6830002904377	2	CLY	1
Dry cleaning compound	6850001104498	0	CN	1
Enamel	8010000793762	2	CN	1
Enamel	8010000793764	7	CN	2
Enamel, Alkyd	8010011319194	31	CN	6
Enamel, Alkyd	8010002902865	2	CN	1
Elec coating	5970009623335	3	CN	0
Flux, Soldering	3439002554571	7	CN	4
Freon/Cylinder, Gas	8120001781598	12	CY	2
Gasket, Cement	8030002523391	5	TU	2
Glass cleaner	7930001849423	6	GL	2
Graphite, Dry lube	9620002336712	1	TU	1
Grease, Acft&Instr	9150001450161	8	TU	1
Grease, Acft&Instr	9150009857245	2	TU	2

HAZARDOUS MATERIAL INVENTORY

NOMENCLATURE	NSN	QTY	UI	MTHLY USAGE
Grease, Aircraft	9150009857244	0	TU	1
Grease, Auto & Art	9150001900904	24	CN	7
Grease, Auto & Art	9150001900950	20	CN	5
Grease, Ball & Roller	9150008238048	1	TU	1
Grease, Ball & Roller	9150001416770	2	CN	1
Grease, General purpose	9150006631770	1	CN	1
Grease, Wire rope	9150005306814	2	CN	2
Hand cleaner	8520009652109	3	LB	1
Hydraulic Fluid	9150001497432	1	CN	1
Insecticide	6840010676674	29	CN	1
Lacquer, Aerosol	8010002906984	7	CN	2
Lacquer, Aerosol	8010005843149	12	CN	8
Lacquer, Aerosol	8010005843150	40	CN	10
Lacquer, Aerosol	8010002906983	16	CN	4
Lacquer, Aerosol	8010001412950	7	CN	2
Lacquer, Aerosol	8010001412952	26	CN	4
Leak test compound	6850006211820	2	BT	1
Lub oil	9150004580075	2	CN	1
Lub oil, Engine	9150001896729	3	BR	1
Lub oil, GP	9150002312356	3	CN	1
Lub oil, GP	9150002633490	5	QT	2
Lub oil, GP	9150008368641	2	QT	1
Lub oil, GP	9150002732389	3	CN	2
Lub oil, Preservative	9150002732389	1	CN	1
Lub oil, 2 cycle	9150001178791	1	PT	1
Lub, Anti-corrosive	6850004505821	1	CN	1
Lubricating, Cleaning	6850000035295	2	CN	1
Lubricating, Instrument	9150002234129	2	QT	1
Lubricating oil	9150002312361	2	CN	1
Lubricating, Presv	9150008893523	2	QT	1
Paint, Epoxy	8010004376757	2	CN	1
Primer	8030001658577	1	CN	1
Quick dry	8010010006623	2	CN	1
Rustoleum	8010LLL003056	4	CN	2
Sealing compound	8030000095023	0	KT	1
Sealing compound	8030002758117	2	CN	1
Silicone compound	6850008807616	4	TU	3
Silicone compound	6850009635402	1	TU	1
Solid color acrylic	8010012006611	6	CN	1
Solvent, Compound	6850000150325	2	CN	1
Solvent, Compound	6850009830282	2	CN	1
Stripper, Floor	7930000456912	4	CN	1
Sulfuric acid	6810002271845	1	CN	1
Sulfuric acid	6810002491102	20	CN	5
Thread compound	8030002921102	3	TU	2
Trichloroethane	6810009306311	4	CN	1
Trichloroethane	6810006640387	2	GL	2
Turner, Tornado	6830005843041	1	CN	1
Wax, Floor	7930001415888	3	CN	1
Zinc chromate	8010001617419	1	CN	1

# Appendix G

**MCO**  
**REQUIREMENTS FOR UST MANAGEMENT**

## CHAPTER 13

### UNDERGROUND STORAGE TANKS

#### SECTION 4: MARINE CORPS POLICY

13400. **COMPLIANCE WITH UST REQUIREMENTS.** The Marine Corps UST program policy is to comply with all Federal, State, and local regulations pertaining to the management of UST. Additionally, the Marine Corps shall develop a long-term management strategy to allow for prioritization of corrective actions against environmental risk. This shall include an accurate inventory of an installation's tank storage needs and include the consideration of design for nonregulated storage systems (e.g., aboveground tanks and underground vaulted tanks) and consolidated systems to reduce compliance requirements.

13401. **FUNDING CATEGORIES.** There are three major funding categories for UST actions:

1. **Defense Environmental Restoration Account.** Eligibility for DERA funding is linked with initial leak detection required by the Federal regulations. If site contamination is discovered prior to or during the conduct of initial leak detection on a UST system, the site investigation and cleanup are eligible for DERA funding.

After initial leak detection is completed, and has shown that a system is tight, any cleanup of subsequent site contamination caused by that system will not be eligible for DERA funds. The requirement to document that a leak occurred at a particular point in time has been eliminated.

2. **Operations and Maintenance.** Includes centrally and/or locally managed funds for repair (M1/M2), minor construction (R1/R2), and other engineering support (P) in compliance with MCO P11000.5.

3. **Military Construction.** To include entire tank replacement for existing "contamination-free" site or new tank construction complying with MCO P11000.12.

4. Appendix O shows proper funding sources for UST projects.

13402. **FUNDING FOR RELEASE RESPONSE.** Initial confirmation, response abatement, site characterization, and free product removal actions (40 CFR 280.52 and 40 CFR 280, subpart F) are viewed as similar to emergency response. Therefore, resultant costs of these actions must be absorbed by local installation operating funds.

13403. **FUNDING FOR RELEASE DETECTION.** Release detection shall be an ongoing compliance requirement for new and existing tank systems. Installation funding requests to address this requirement will compete with all other similar requests. Therefore, to ensure that adequate funds are available, each installation should budget needed funds locally.

#### 13404. TANK INVENTORY

1. One of the most important initial steps in meeting Federal UST regulatory requirements is to develop adequate baseline data regarding an installation's tank universe or makeup (tank data base). Baseline data shall be maintained by completing an up-to-date tank inventory that shall provide pertinent information

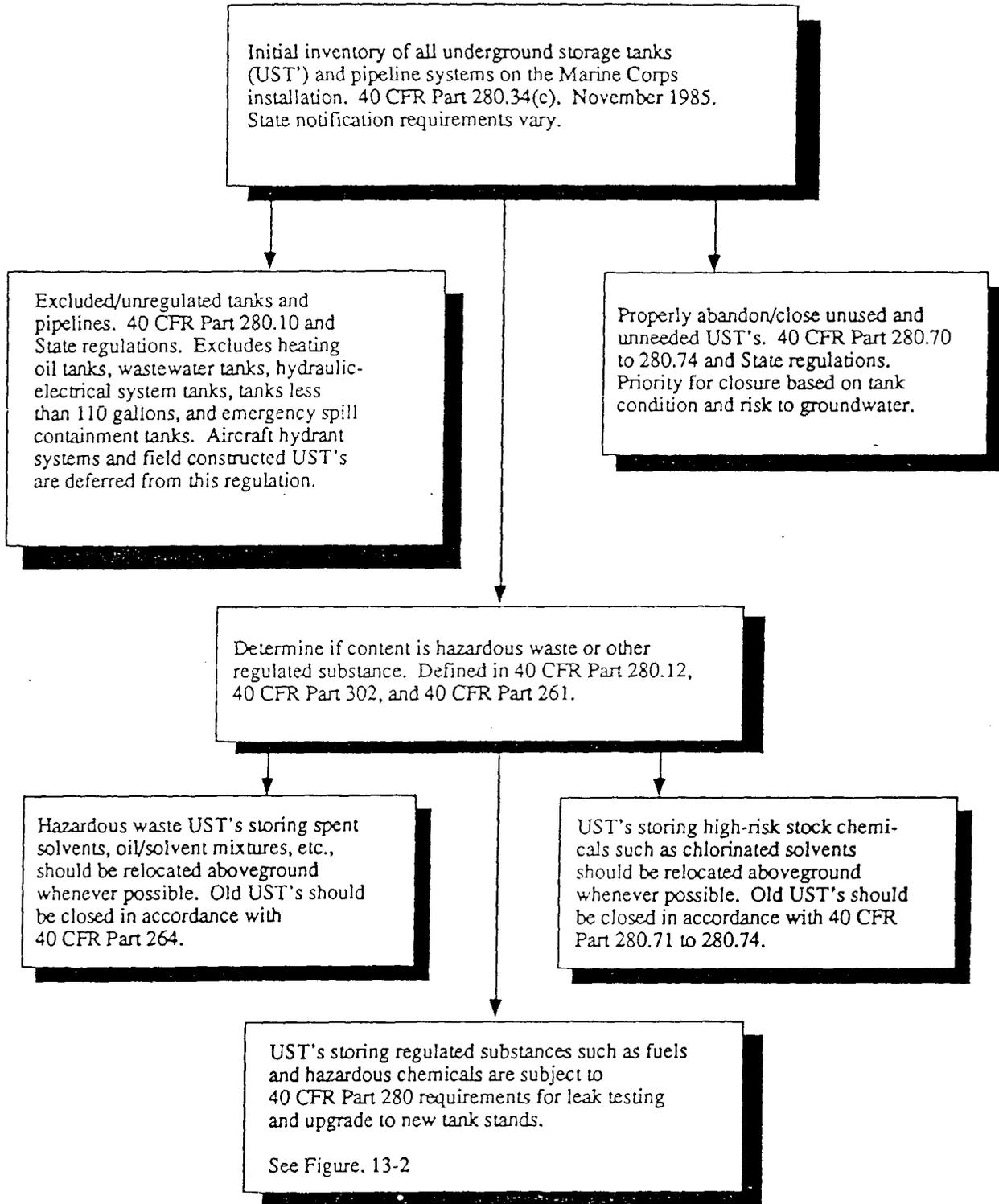


Figure 13-1 UST Flow Diagram 1

including the number of tanks and location, individual tank age, size (in terms of volume), type of material stored, use/condition status (e.g., whether or not the tank is abandoned and/or is known to be leaking and if so, identification of records to indicate when), and environmental sensitivity (i.e., possible extent of potential contamination, proximity to groundwater). Such information is necessary not only to develop a rational UST compliance strategy, but also to accurately apply appropriate funding categories to required UST actions. Technical assistance regarding development/maintenance of such a data base is available on request from the NAVFACENGC COM EFD.

2. An across-the-board tank inventory study effort would be eligible for other engineering support (P) funds. However, it should be noted that such projects would have to compete with all other projects eligible for P funds. One potential funding source that could be used in development of a tank data base is the DERA, which can be used to support studies to locate tanks abandoned prior to 1 January 1984 and to determine actual or potential contamination. Repair funds can also be used to support studies as they relate to a specific repair action.

#### 13405. TANK MANAGEMENT STRATEGY

1. It is anticipated that compliance with UST regulations will result in far-reaching management and cost implications to Marine Corps installations. A long-term approach in coping with UST regulations is the development of individual installation UST management strategies. These would require Marine Corps installations to look beyond the specific regulatory compliance tasks at hand and consider a comprehensive approach to long-term UST storage needs.

2. The intent of the management strategy is to allow installations to utilize UST systems as efficiently as possible, therefore minimizing costs associated with compliance requirements. With this management policy, it is necessary that each installation explore the feasibility of management techniques such as the following:

a. Consolidation of existing UST systems to include closure, via removal or in-place abandonment, of unneeded tanks.

b. Utilization of aboveground or vaulted underground tanks (when allowable) for tank replacement.

c. Timely completion of upgrade requirements for tanks that are essential to installation operations so as to diminish the risk of potential leaks, tank shutdown, and increased cleanup costs.

3. The CMC (LFL) has undertaken specific recent initiatives to assist installations in taking necessary steps to meet the demands of UST requirements. UST management data are being developed for all Marine Corps installations to address long-range compliance and funding requirements. The effort includes a detailed inventory for active and inactive tanks, as well as a prioritization of active tank replacement based on environmental sensitivity and cost factors. With this information, installations will be better able to develop their own strategy for UST compliance. Additionally, steps are being taken to assess funding requirements for operationally critical USTs, which must be upgraded or replaced by 1998 to meet new standards.

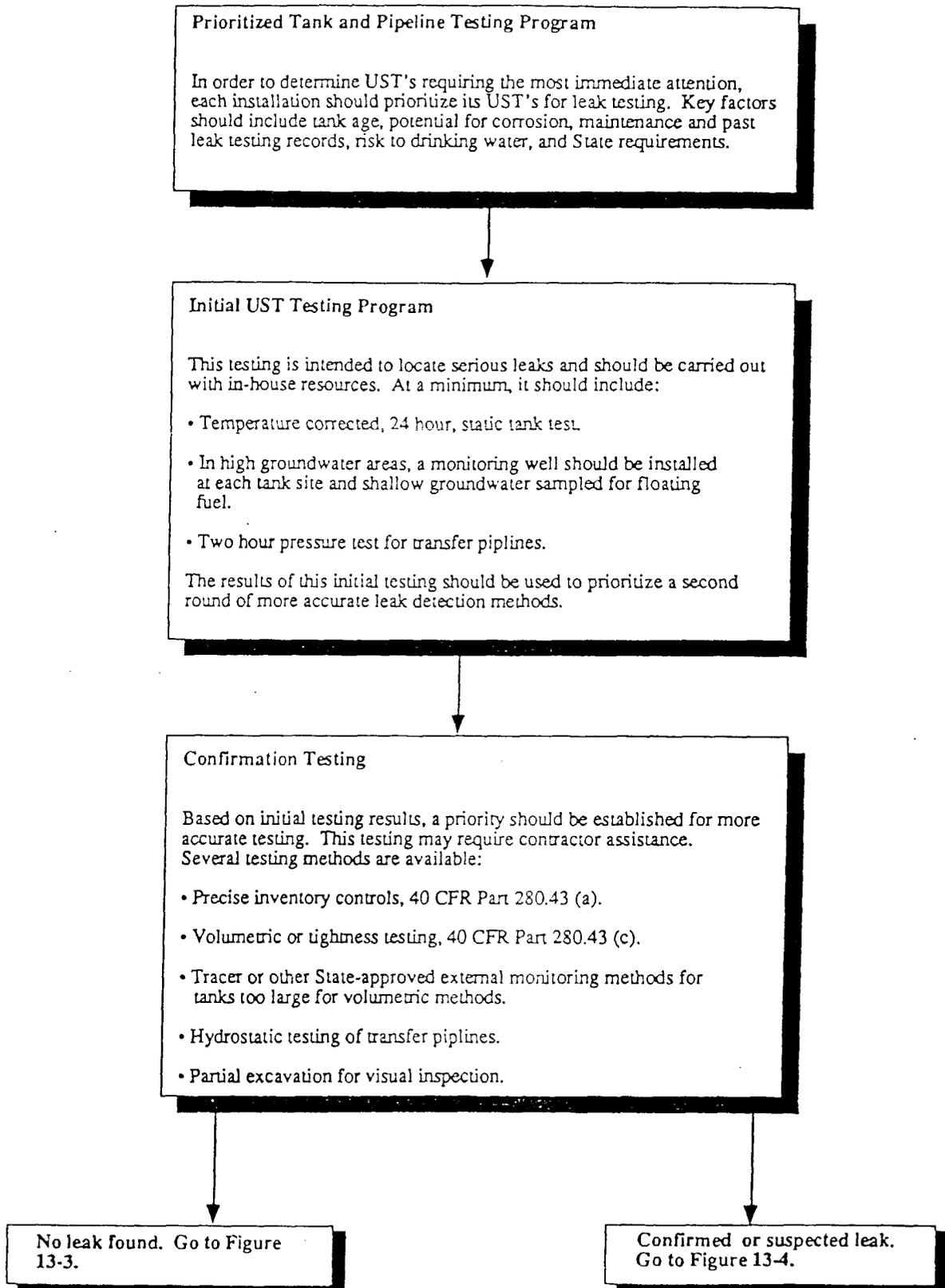


Figure 13-2 UST Flow Diagram 2

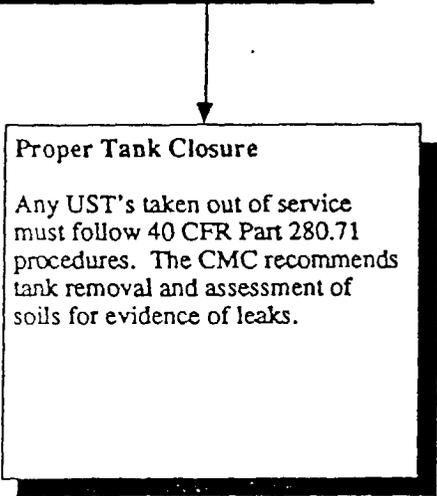
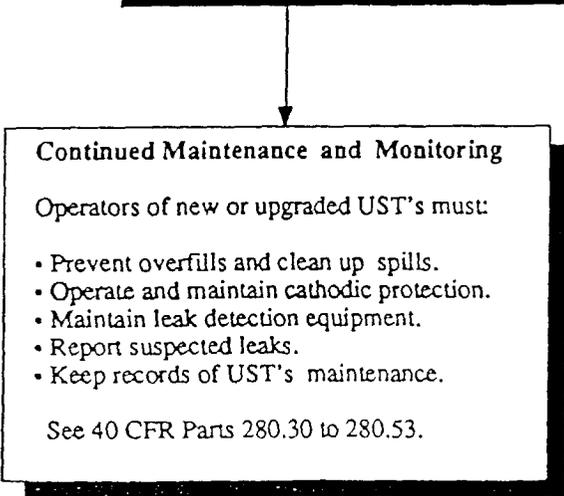
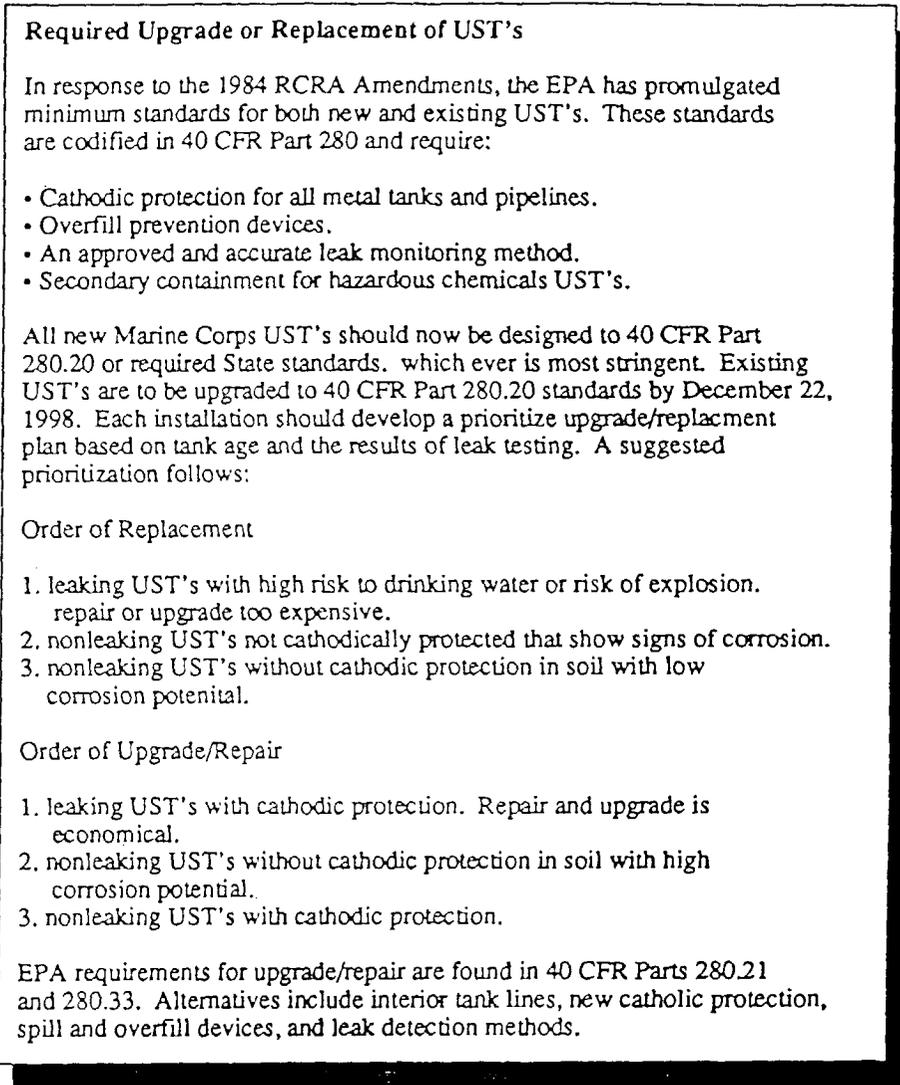


Figure 13-3 – UST Flow Diagram 3

### Release Reporting Requirements

All confirmed leaks, suspected leaks based on monitoring, or spills or overfills of fuels exceeding 25 gallons must be reported to the EPA or proper State agency within 24 hours. All spills, or leaks of any size must be contained and cleaned up.

### Release Investigation and Confirmation

Immediate investigation using the following methods (or others specified by the State or EPA):

- Inventory check.
- Tank or pipeline isolation and monitoring system recheck.
- If leak still suspected, a tightness or hydrostatic test must be used to locate leak.
- If system fails tightness test, soil coring or groundwater sampling should be conducted.
- Evaluation of immediate risk to drinking water, explosive vapors, etc. The Installation Restoration Program (IRP) method or an updated risk assessment method should be used.
- Reporting of results to implementing agency.

A separate set of corrective actions is required for petroleum products versus hazardous substances. These procedures are listed in 40 CFR Parts 280.60 to 280.67, but will vary based on State requirements and risk.

Small leaks can be cleaned up without removing the tank or pipeline. In many cases, loose joints and connections cause leaks but the general condition of the tank or pipeline is good. In such cases, the tank or pipeline can be repaired in accordance with 40 CFR Part 280.33 and the UST's upgraded to new tank standards (Figure 13-3).

Figure 13-4 – UST Flow Diagram 4