ATTACHEMENTS NO.10.1 – 10.6 Maps and Photographs are in the Envelope Marked "ATTACHMENT 10"

ATTACHMENT NO.11 SWFWMD WELL LISTING



								WELL			
WCP	WELL			_	-	_	D14	USE	OVENIETO MANTE		
NUMB	ИО		COMPLETED	S	۲	R	DIA			STATE	ZIP
316870	1	1/1/70	7/1/79	14	29	19	4	Α	FLA STEEL C NO ADDRESS NO CITY	FL	
331140	1	1/1/70	7/1/79	14	29	19	4	A	CHAPMAN COM NO ADDRESS NO CITY	FL »	
377412	1	10/13/82	10/18/82	14	29	19	4	Α	CENTRAL FLORIDA LANDSCAPING 6109 ORIENT RD TAMPA	FL	33610
467955	1	10/5/88	10/31/88	14	29	19	4	Α	LEVANT, LEE 6912 E. 9TH AVE. TAMPA	FL	33605
477406	1	3/22/89	4/17/89	14	29	19	8	Α	HILLSBOROUGH CO BOCC 601 E KENNEDY BLVD 23RD FLOOR TAMPA	FL	33602
667886	1	4/19/02	4/27/02	14	29	19	4	Α	SOUTHWESTERN SUPPLIERS 6815 E 14TH ST TAMPA	FL	33610
339486	1	1/1/70	7/1/79	14	29	19	4	В	D JOSEPH CO NO ADDRESS NO CITY	FL	
490957	1	12/20/89	1/10/90	14	29	19	4	В	FLORIDA MEGA-MIX INC 1902 NORTH 69TH STREET TAMPA	FL	33619
622364	1	6/30/99	8/30/99	14	29	19	4	В	BAY CITIES GAS CORP 5322 KELLY RD TAMPA	FL	33615
307009	1	1/1/70	7/1/79	14	29	19	3	D	R N VANCE NO ADDRESS NO CITY	FL	
310940	1	1/1/70	7/1/79	14	29	19	3	D	BIVAN SLS 4406 WISCONSIN TAMPA	FL	33609
316339	1	1/1/70	7/1/79	14	29	19	3	D	C COOPER 1410 21ST AVE. TAMPA	FL	33609
317346	1	1/1/70	7/1/79	14	29	19	4	D	FLORIDA MATERIAL HANDLING 4314 EAST 7TH AVE. TAMPA	FL	33609
317824	1	1/1/70	7/1/79	14	29	19	4	D	SINGLETON, CHARLES 3201 3RD AVE. TAMPA	FL	33609
318215	1	1/1/70	7/1/79	14	29	19	4	D	HACKETT, C.A. 1800 ORIENT ROAD TAMPA	FL	33609
324981	1	1/1/70	7/1/79	14	29	19	4	D	GULF COAST RECYCLING 1901 N 66TH ST TAMPA	FL	33609
349177	1	11/13/79	11/19/79	14	29	19	2	D	BLACKHAWK ELECTRIC 3114 BAY-TO-BAY BOULEVARD TAMPA	FL	33605
349461	1	11/27/79	11/29/79	14	29	19	2	D.	SOUTHWEST FLA WATER MGT DISTRICT 2379 BROAD ST BROOKSVILLE	FL	34604
357482	1	8/27/80	9/9/80	14	29	19	2	D	BELL, ANN 325 GLEN OAKS AVENUE TEMPLE TERRAC	E FL	33617
361296	1	1/21/81	1/24/81	14	29	19	4	D	MEENING, MR. 2806 N 66TH ST TAMPA	FL	33601
362857	1	3/11/81	3/17/81	14	29	19	4	D	OSBORNE, MARIE 3505 72ND ST TAMPA	FL	33601
368283	1	8/18/81	8/25/81	14	29	19	4	Đ	WOODHAM, T. C. 2002 65TH ST TAMPA	FL	33619
368738	1	9/8/81	10/6/81	14	29	19	2	D	FREEMAN, FRED F. 2003 65TH STREET NORTH TAMPA	FL	33619
399419	1	1/7/85	1/10/85	14	29	19	4	D	DRURY, O.D. 7220 E 29 AVE TAMPA	FL	33619
547815	1	2/2/94	2/28/94	14	29	19	4 .	D	JAMES W DUPREE 7110 EAST 14TH AVENUE TAMPA	FL	33619
471877	1	11/21/88	12/16/88	14	29	19	4	Н	DAVID JOSEPH COMPANY 1002 ORIENT ROAD TAMPA	FL	33605
471878	1	11/21/88	12/16/88	14	29	19	2	Н	DAVID JOSEPH COMPANY 1002 ORIENT ROAD TAMPA	FL	33605
517210	1	9/16/91	10/29/91	14	29	19	4	Н	FLORIDA STEEL CORP 1715 CLEVELAND ST TAMPA	FL	33606
305163	1	3/3/70	3/12/70	14	29	19	6	1	STAUFFER CHEMICAL CO 2009 ORIENT RD TAMPA	FL	33605
305886	1	5/28/70	7/2/70	14	29	19	10	!	SEABOARD COASTLINE GENERAL DELIVERY TAMPA	FL	33612
359356	1	11/4/80	11/22/80	14	29	19	6	1	COOKS LUMBER COMPANY 1905 NORTH 66TH STREET TAMPA	FL	33619
392785	1	6/13/84	6/20/84	14	29	19	6	ı	CONCRETE PRODUCTS CORPORATION 4100 PARK STREET ST PETERSBURG	FL	33709
466446	1	8/31/88	9/21/88	14	29	19	5	1	JOSEPH, DAVID BOX 11906 TAMPA	FL	33680
483237	1	7/10/89	7/14/89	14	29	19	4	1	UNIVERSAL WASTE INC. 2002 N. ORIENT RD. TAMPA	FL	33619
509947	1	1/29/91	3/8/91	14	29	19	8	i	FLORIDA STEEL CORP 1715 CLEVELAND ST TAMPA	FL	33606
687.154	1	7/11/03	7/23/03	14	29	19	4	J	ALARIC 2110 NORTH 71ST ST TAMPA	FL	33619
361279	1	1/20/81	. 5/14/81	14	29	19	4	0	GULF COAST LEAD CO 10901 N 66TH ST , TAMPA	FL	33601
361280	1	1/20/81	5/14/81	14	29	19	4	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
361281	1	1/20/81	5/14/81	14	29	19	4	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
375658	1	6/30/82	7/5/82	14	29	19	4	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381712	1	5/3/83	9/15/83	14	29	19	1	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381713	.1	5/3/83	9/13/83	14	29	19	1	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381714	1	5/3/83	9/15/83	14	29	19	1	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381715	1	5/3/83	9/15/83	14	29	19	1	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381716	1	5/3/83	9/15/83	14	29	19	1	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381717	1	5/3/83	9/15/83	14	29	19	1	0	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381718	1	5/3/83	9/15/83	14	29	19	1	Ö	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381719	1	5/3/83	9/15/83	14	29	19	1	ŏ	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381720	1	5/3/83	9/15/83	14	29	19	i	ŏ	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381721	. 1	5/3/83	9/15/83	14	29	19	1	Õ	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	
381722	1	5/3/83	9/15/83	14	29	19	i	ŏ	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL	33601
381723	1	5/3/83	9/15/83	14	29	19	1	ŏ	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL .	33601
381724	-1	5/3/83	9/15/83	14	29	19	1	õ	GULF COAST LEAD CO 10901 N 66TH ST TAMPA	FL FL	33601
501724		3/0/03	3, 10,00		_5		*	•	1AMITA	. i.r.	33601

								WELL					
WCP	WELL							USE					
NUMB	NO	ISSUED	COMPLETED	S	Т	R	DIA	CODE	•	DDRESS	CITY	STATE	ZIP
381725	1	5/3/83	9/15/83	14	29	19	1	0		0901 N 66TH ST	TAMPA	FL	33601
381726	1	5/3/83	9/15/83	14	29	19	1	0		0901 N 66TH ST	TAMPA	FL	33601
381727	1	5/3/83	9/15/83	14	29	19	1	. 0		0901 N 66TH ST	TAMPA	FL	33601
381728	1	5/3/83	9/15/83	14	29	19	1	0		0901 N 66TH ST	TAMPA	FL.	33601
381729	1	5/3/83	9/15/83	14	29	19		-		0901 N 66TH ST	TAMPA	FL,	33601
381730	1	5/3/83	9/15/83	14	29 29	19 19	1	0		0901 N 66TH ST	TAMPA	FL.	33601
381731	1	5/3/83	9/15/83	14	29 29	19	4	Ö		0901 N 66TH ST	TAMPA	FL	33601
381732	1	5/3/83	10/10/83 9/15/83	14 14	29	19	4	Ö		0901 N 66TH ST	TAMPA	FL	33601
381733	1	5/3/83 5/3/83	9/15/83	14	29	19	4	õ		0901 N 66TH ST 0901 N 66TH ST	TAMPA	FL	33601
381734 381735	1	5/3/83	9/15/83	14	29	19	4	õ		0901 N 66TH ST	TAMPA	FL	33601
381736	. 1	5/3/83	9/15/83	14	29	19	4	õ		0901 N 66TH ST	TAMPA TAMPA	FL	33601
381737	1	5/3/83	9/15/83	14	29	19	4	õ		0901 N 66TH ST	TAMPA	FL FL	33601
402622	1	4/4/85	1/28/85	14	29	19	2	õ		405 NORTH 71ST STREET	TAMPA	FL.	33601
402623	1	4/4/85	7/23/86	14	29	19	2	ŏ		405 NORTH 71ST STREET	TAMPA	FL	33607
402624	1	4/4/85	4/4/85	14	29	19	2	ŏ		405 NORTH 71ST STREET	TAMPA	FL	33607
402625	1	4/4/85	4/4/85	14	29	19	2	ō		405 NORTH 71ST STREET	TAMPA	FL	33607
402626	i	4/4/85	4/4/85	14	29	19	2	ŏ		405 NORTH 71ST STREET	TAMPA	FL	33607
412672	1	2/20/86	2/24/86	14	29	19	4	ŏ		01 E KENNEDY BLVD 23RD FLOOR	TAMPA	FL.	33607
412673	1	2/20/86	2/24/86	14	29	19	4	· 0		01 E KENNEDY BLVD 23RD FLOOR	TAMPA	FL	33602 33602
412674	1	2/20/86	2/25/86	14	29	19	4	ŏ		01 E KENNEDY BLVD 23RD FLOOR	TAMPA	FL	33602
412675	i	2/20/86	2/25/86	14	29	19	4	ŏ		01 E KENNEDY BLVD 23RD FLOOR	TAMPA	FL	33602
422277	1	10/14/86	10/15/86	14	29	19	2	0		004 DURHAM STREET	TAMPA	FL	33602
422278	1	10/14/86	10/15/86	14	29	19	2	0		004 DURHAM STREET	TAMPA	FL	33605
422279	1	10/14/86	10/15/86	14	29	19	2	0		004 DURHAM STREET	TAMPA	FL	33605
422280	1	10/14/86	10/15/86	14	29	19	2	. 0	RADIANT OIL COMPANY 20	004 DURHAM STREET	TAMPA	FL	33605
422281	1	10/14/86	10/15/86	14	29	19	2	0	RADIANT OIL COMPANY 20	004 DURHAM STREET	TAMPA	FL	33605
422282	1	10/14/86	10/15/86	14	29	19	2	0	RADIANT OIL COMPANY 20	004 DURHAM STREET	TAMPA	FL	33605
425994	1	12/30/86	1/2/87	14	29	19	2	0	PETROLEUM PRODUCTS SERV 65	584 50TH AVE NORTH	ST PETERSBURG	FL	33709
425995	1	12/30/86	1/2/87	14	29	19	2	0	PETROLEUM PRODUCTS SERV 65	584 50TH AVE NORTH	ST PETERSBURG	FL	33709
425996	1	12/30/86	1/2/87	14	29	19	2	0	PETROLEUM PRODUCTS SERV 65	584 50TH AVE NORTH	ST PETERSBURG	FL	33709
425997	1	12/30/86	1/2/87	14	29	19	2	0	PETROLEUM PRODUCTS SERV 65	584 50TH AVE NORTH	ST PETERSBURG	FL	33709
430658	1	4/10/87	5/1/87	14	29	19	2	0	FLA STEEL CORPORATION 17	715 CLEVELAND STREET	TAMPA	FL	33601
430659	1	4/10/87	5/1/87	14	29	19	2	0	FLA STEEL CORPORATION 17	715 CLEVELAND STREET	TAMPA	FL	33601
430660	1	4/10/87	5/1/87	14	29	19	2	0	FLA STEEL CORPORATION 17	715 CLEVELAND STREET	TAMPA	FL	33601
430661	1	4/10/87	5/1/87	14	29	19	2	0	FLA STEEL CORPORATION 17	715 CLEVELAND STREET	TAMPA	FL	33601
430662	1	4/10/87	5/1/87	14	29	19	2	0	FLA STEEL CORPORATION 17	715 CLEVELAND STREET	TAMPA	FL	33601
430663	1	4/10/87	5/1/87	14	29	19	2	0		715 CLEVELAND STREET	TAMPA	FL	33601
430664	1	4/10/87	5/1/87	14	29	19	2	0		715 CLEVELAND STREET	TAMPA	FL	33601
430665	1	4/10/87	5/1/87	14	29	19	2	0	and the contract of the contra	715 CLEVELAND STREET	TAMPA	FL	33601
430666	1	4/10/87	5/1/87	14	29	19	2	0		715 CLEVELAND STREET	TAMPA	FL	33601
430667	. 1	4/10/87	5/1/87	1,4	29	19	2	0		715 CLEVELAND STREET	TAMPA .	FL	33601
431755	1	5/5/87	5/6/87	14	29	19	2	0	· · · · · · · · · · · · · · · · · · ·	715 CLEVELAND STREET	TAMPA	FL	33601
431756	1	5/5/87	5/6/87	14	29	19	2	0		OT 2, MCGOWAN ST	CRYSTAL RIVER	FL	32629
438928	1	10/6/87	10/7/87	14	29	19	2	0		021 E. BROADWAY	TAMPA	FL	
438929	1	10/6/87	10/7/87	14	29	19	2	0		021 E. BROADWAY	TAMPA	FL	
438930	1	10/6/87	10/7/87	14	29	19	2	0	· ·	021 E. BROADWAY	TAMPA	FL	
438931	1.	10/6/87	10/7/87	14	29	19	2	0		021 E. BROADWAY	TAMPA	FL	
438932	1	10/6/87	10/7/87	14	29	19	2	0		021 E. BROADWAY	TAMPA	FL	
439025	. 1	10/8/87	10/9/87	14	29	19	2	0		910 ORIENT RD	TAMPA	FL	33601
439026	1	10/8/87	10/9/87	14	29	19	2	0		910 ORIENT RD	TAMPA	FL	33601
439027	1	10/8/87	10/9/87	14	29	- 19	2	0		910 ORIENT RD	TAMPA	FL	33601
439028	. 1	10/8/87	10/9/87	14	29	19	2	0 -	CHAPMAN CONTRACTING CO 19	910 ORIENT RD	TAMPA	FL	33601
											•		

								WELL					
WCP	WELL	ICCUED	COMPLETED		т	R	DIA	USE	OWNERS NAME	ADDDECO			
NUMB	ИО		COMPLETED 1/15/88	S 14	29	19	2	ODE	FLORIDA STEEL CORP	ADDRESS	CITY	STATE	
440941	1	11/23/87		14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
440942	1	11/23/87 11/23/87	1/15/88 1/15/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST 1715 CLEVELAND ST	TAMPA	FL.	33606
440943 440944	1	11/23/87	1/15/88	14	29	19	2	Ö	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
440945	1	11/23/87	1/15/88	14	29	19	2	ő	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL ~	33606
441838	1	12/11/87	1/15/88	14	29	19	2	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
441839	1	12/11/87	1/15/88	14	29	19	2	Õ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
441840	1	12/11/87	1/15/88	14	29	19	2	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA TAMPA	FL	33606
442173	1	12/18/87	12/26/87	14	29	19	2	ŏ	BISHOPS WELDING SUPPLY	6601-14TH AVE	TAMPA	FL FL	33606
442174	1	12/18/87	12/26/87	14	29	19	2	ō	BISHOPS WELDING SUPPLY	6601-14TH AVE	TAMPA	FL	
442176	1	12/18/87	12/26/87	14	29	19	2	ō	BISHOPS WELDING SUPPLY	6601-14TH AVE	TAMPA	FL.	
442178	1	12/18/87	12/26/87	14	29	19	2	0	BISHOPS WELDING SUPPLY	6601-14TH AVE	TAMPA	FL	
442926	1	1/6/88	1/13/88	14	29	19	2	Ó	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442927	1	1/6/88	1/13/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442928	1	1/6/88	1/14/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442929	1	1/6/88	1/14/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442930	1	1/6/88	1/20/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442931	1	1/6/88	1/20/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442932	1	1/6/88	1/20/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442933	1	1/6/88	1/26/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442934	1	1/6/88	1/26/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	· FL	32301
442935	1	1/6/88	1/26/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442936	1	1/6/88	1/26/88	14	. 29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442937	1	1/6/88	1/27/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442938	1	1/6/88	1/27/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442939	1	1/6/88	1/27/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
442940	1	1/6/88	1/27/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
444091	1	1/28/88	1/28/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
444635	1	2/9/88	2/9/88	14	29	19	2	0	DEPT OF ENVIRONMENTAL REGULATION	2600 BLAIR STONE ROAD	TALLAHASSEE	FL	32301
465575	1	8/15/88	9/16/88	14	29	19	2	0	FLA STEEL CORPORATION	1715 CLEVELAND STREET	TAMPA	FL	33601
465576	1	8/15/88	9/16/88	14	29	19	2	0	FLA STEEL CORPORATION	1715 CLEVELAND STREET	TAMPA	FL	33601
465577	1	8/15/88	9/16/88	14	29	19	2	0	FLA STEEL CORPORATION	1715 CLEVELAND STREET	TAMPA	FL	33601
472784	1	12/9/88	12/23/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
472785	1	12/9/88	12/23/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
472792	1	12/9/88	12/23/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
472794	1	12/9/88	12/23/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
472795	1	12/9/88	12/23/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
472796	1	12/9/88	12/23/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	' TAMPA	FL	33606
472797	1	12/9/88	12/23/88	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
475372	1	2/7/89	12/18/89	14	29	19	2	0	SMALLEY TRANSPORTATION CO.	2414 N. 70TH ST.	TAMPA	FL	33619
475373	1	2/7/89	12/18/89	14	29	19	2	0	SMALLEY TRANSPORTATION CO.	2414 N. 70TH ST.	TAMPA	FL	33619
475374	1	2/7/89	12/18/89	14	29	19	2	0	SMALLEY TRANSPORTATION CO.	2414 N. 70TH ST.	TAMPA	FL	33619
475375	1	2/7/89	12/18/89	14	29	19	2	0	SMALLEY TRANSPORTATION CO.	2414 N. 70TH ST.	TAMPA	FL	33619
478944	1	4/20/89	4/28/89	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
478945	1	4/20/89	4/28/89	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
478946	1	4/20/89	4/28/89	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
479764	1	5/4/89	5/5/89	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
481206	1	6/1/89	6/7/89	14	29	19	4	0	N.U.S. CORPORATION	1300 N: 17TH ST, STE, 1320	ARLINGTON	VA	22209
481207	1	6/1/89	6/5/89	14	29	19	4	0	N.U.S. CORPORATION	1300 N. 17TH ST. STE. 1320	ARLINGTON	VA	22209
481713	1	6/9/89	9/28/89	14	29	19	2	0	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
. 481714	1	6/9/89	7/28/89	14	29	19	2	0	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
481715	1	6/9/89	7/28/89	14	29	19	2	0	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
483337	1	7/12/89	7/28/89	14	29	19	2	.0	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
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WCP	WELL							USE					
NUMB	NO	ISSUED	COMPLETED	s	Т	R	DIA	CODE	OWNERS NAME	ADDRESS C	NITY .		
492047	1	1/17/90	2/2/90	14	29	19	4	0	GULF COAST LEAD CO				ZIP
492048	1	1/17/90	2/2/90	14	29	19	4	ō	GULF COAST LEAD CO			-L	33601
492049	1	1/17/90	2/2/90	14	29	19	4	ō	GULF COAST LEAD CO			FL.	33601
492050	1	1/17/90	2/2/90	14	29	19	4	0	GULF COAST LEAD CO		•	=L	33601
494349	1	2/13/90	2/14/90	14	29	19	2	Ö	FLORIDA STEEL CORP			₹L 	33601
500969	1	6/28/90	7/4/90	14	29	19	2	0	WHEELBLAST, INC.		·	=L 	33606
500970	1	6/28/90	7 <i>/</i> 7/90	14	29	19	2	0	WHEELBLAST, INC.			FL FL	33540
500972	1	6/28/90	7/4/90	14	29	19	2	0	WHEELBLAST, INC.			-L	33540 33540
500973	1	6/28/90	7/4/90	14	29	19	2	0	WHEELBLAST, INC.			-L	33540
502329	1	7/30/90	8/1/90	14	29	19	2	0	GULF COAST RECYCLING			:L	33609
502330	1	7/30/90	8/1/90	14	29	19	2	0	GULF COAST RECYCLING			 FL	33609
502331	1	7/30/90	8/1/90	14	29	19	2	0	GULF COAST RECYCLING			= <u> </u>	33609
502430	1	7/31/90	10/1/90	14	29	19	4	0	STAUFFER CHEMICAL CO	2009 ORIENT RD T		FL	33605
502431	1	7/31/90	10/1/90	14	29	19	4	0	STAUFFER CHEMICAL CO	2009 ORIENT RD	AMPA F	-L	33605
502432	1	7/31/90	10/1/90	14	29	19	4	0	STAUFFER CHEMICAL CO			FL.	33605
502433	1	7/31/90	10/1/90	14	29	19	4	0	STAUFFER CHEMICAL CO			FL.	33605
502434	1	7/31/90	10/1/90	14	29	19	4	0	STAUFFER CHEMICAL CO		AMPA F	EL.	33605
502435	1	7/31/90	10/1/90	14	29	19	4	0	STAUFFER CHEMICAL CO		'AMPA F	EL.	33605
502436	1	7/31/90	9/10/90	14	29	19	4	0	STAUFFER CHEMICAL CO		AMPA F	L	33605
502437	1	7/31/90	9/10/90	14	29	19	4 4	0	STAUFFER CHEMICAL CO		AMPA F	·L	33605
502438	1	7/31/90	9/10/90	14	29	19	-7	_	STAUFFER CHEMICAL CO		AMPA F	:L	33605
502439	1	7/31/90	9/10/90	14	29	19	4	0	STAUFFER CHEMICAL CO			Į.	33605
502440	1	7/31/90	9/10/90	14	29	19	4	0	STAUFFER CHEMICAL CO			L	33605
502441 504169	1	7/31/90 9/17/90	9/10/90	14 14	29 29	19	4	0	STAUFFER CHEMICAL CO		'AMPA F	L.	33605
504170	1	9/17/90	10/15/90 10/15/90	14	29 29	19 19	2 2	0	ECOL			3A	30341
504170	1	9/17/90	10/15/90	14	29	19	2	0	ECOL			3A	30341
504171	1	9/17/90	10/15/90	14	29	19	2	0	ECOL .			3A	30341
504172	1	9/17/90	10/13/90	14	29	19	2	Ö	ECOL			3A	30341
506301	1	11/1/90	11/16/90	14	29	19	2	o	WHEELBLAST, INC.			3A	30341
509996	1	1/29/91	2/1/91	14	29	19	2	ŏ	RAHN'S FINA STATION			F <u>L</u>	33540
509997	1	1/29/91	2/1/91	14	29	19	2	ő	RAHN'S FINA STATION			L	33605
509998	1	1/29/91	2/1/91	14	29	19	2	ŏ	RAHN'S FINA STATION			L	33605
509999	1	1/29/91	2/1/91	14	29	19	2	ŏ	RAHN'S FINA STATION			L	33605
510000	1	1/29/91	2/1/91	14	29	19	2	ŏ	RAHN'S FINA STATION			L	33605
510001	1	1/29/91	2/1/91	14	29	19	2	ŏ	RAHN'S FINA STATION		AMPA F		33605
510002	1	1/29/91	2/1/91	14	29	19	2	ŏ	RAHN'S FINA STATION		AMPA F		33605
510003	i	1/29/91	2/1/91	14	29	19	2	ŏ	RAHN'S FINA STATION				33605
510004	1	1/29/91	2/1/91	14	29	19	2	ō	RAHN'S FINA STATION				33605
512317	1	4/3/91	4/5/91	14	29	19	2	Ó	BITEC		AMPA F		33605
512317	2	4/3/91	4/5/91	14	29	19	2	0	BITEC		AMPA F		33619
512317	3	4/3/91	4/5/91	14	29	19	2	o	BITEC			L	33619
512317	4	4/3/91	4/5/91	14	29	19	2	Ó	BITEC				33619
514655	1	6/21/91	7/25/91	14	29	19	2	Ó	RON'S FINA				33619
514655	2	6/21/91	7/25/91	14	29	19	2	0	RON'S FINA			.r	33619
514655	3	6/21/91	7/25/91	14	29	19	2	Ō	RON'S FINA			.r	33619
518212	1	10/22/91	11/1/91	14	29	19	4	ō	CAMP, DRESSER & MCKEE		,		33619
518212	2	10/22/91	11/1/91	14	29	19	4	ŏ	CAMP, DRESSER & MCKEE			9A 9A	30328
518506	1	11/1/91	11/4/91	14	29	.19	2	ŏ	RADIANT OIL		-	∌A EL	30328
518506	2	11/1/91	11/4/91	14	29	19	2	ŏ	RADIANT OIL			·L	33675
518506	3	11/1/91	11/6/91	14	29	19	2	Ö.	RADIANT OIL		AMPA F		33675
518506	4	11/1/91	11/4/91	14	29	19	2	ŏ	RADIANT OIL		AMPA F		33675
518506	5	11/1/91	11/4/91	14	29	19	2	. 0 .	RADIANT OIL			L	33675
- 1 7 -										11		L	33675

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NUMB	NO	ISSUED	COMPLETED	s	T	R	DIA	CODE	OWNERS NAME	ADDRESS	CITY	STATE	7IP
518506	6	11/1/91	11/4/91	14	29	19	2	0	RADIANT OIL	P.O. BOX 5751	TAMPA	FL	33675
518506	7	11/1/91	11/4/91	14	29	19	2	Ó	RADIANT OIL	P.O. BOX 5751	TAMPA	FL	33675
518506	8	11/1/91	11/4/91	14	29	19	2	ŏ	RADIANT OIL	P.O. BOX 5751	TAMPA	FL	
	1	11/14/91	11/13/91	14	29	19	2	ŏ	HYDRO CONDUIT CORP.	62ND ST	TAMPA	FL	33675
518875		11/14/91	11/13/91	14	29	19	2	ŏ	HYDRO CONDUIT CORP.	62ND ST			33603
518875	2				29			ő	HYDRO CONDUIT CORP.		TAMPA	FL	33603
518875	3	11/14/91	11/13/91	14		19	2	-		62ND ST	TAMPA	FL	33603
518875	4	11/14/91	11/13/91	14	29	19	2	0	HYDRO CONDUIT CORP.	62ND ST	TAMPA	FL	33603
518875	5	11/14/91	11/13/91	14	29	19	2	0	HYDRO CONDUIT CORP.	62ND ST	TAMPA	FL	33603
529127	1	8/31/92	9/11/92	14	29	19	4	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529127	2	8/31/92	9/11/92	14	29	19	4	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529127	3	8/31/92	9/11/92	14	29	19	4	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529127	4	8/31/92	9/11/92	14	29	19	4	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL.	33606
529127	5	8/31/92	9/11/92	14	29	19	4	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529127	6	8/31/92	9/11/92	14	29	19	4	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529127	7	8/31/92	9/11/92	14	29	19	4	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529128	1	8/31/92	9/11/92	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529128	2	8/31/92	9/11/92	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529128	3	8/31/92	9/11/92	14	29	19	2	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	
529128	4	8/31/92	9/11/92	14	29	19	.2	õ	FLORIDA STEEL CORP	1715 CLEVELAND ST			33606
	5	8/31/92	9/11/92	14	29	19	2	ŏ	FLORIDA STEEL CORP		TAMPA	FL	33606
529128	-				29			ŏ		1715 CLEVELAND ST	TAMPA	FL	33606
529128	6	8/31/92	9/11/92	14		19	2	_	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	, FL	33606
529128	7	8/31/92	9/11/92	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
529128	8	8/31/92	9/11/92	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
536790	1	4/9/93	4/29/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
536790	2	4/9/93	4/29/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
538274	1	5/17/93	5/18/93	14	29	19	2	0	CSX TRANSPORTATION	PO BOX 45052-500 WATER ST	JACKSONVILLE	FL	32232
538274	2	5/17/93	5/18/93	14	29	19	2	0	CSX TRANSPORTATION	PO BOX 45052-500 WATER ST	JACKSONVILLE	FL	32232
538274	3	5/17/93	5/18/93	14	29	19	2	Ó	CSX TRANSPORTATION	PO BOX 45052-500 WATER ST	JACKSONVILLE	FL	32232
538274	4	5/17/93	5/18/93	14	29	19	2	ŏ	CSX TRANSPORTATION	PO BOX 45052-500 WATER ST	JACKSONVILLE	FL	
543125	1	9/17/93	10/15/93	14	29	19	2	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	32232
		9/17/93	10/15/93	14	29	19	2	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST			33606
543125	2				29			ŏ			TAMPA	FL_	33606
543125	3	9/17/93	10/15/93	14		19	2	_	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543125	4	9/17/93	10/15/93	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543125	5	9/17/93	10/15/93	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543125	6	9/17/93	10/15/93	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543125	7	9/17/93	10/15/93	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543125	8	9/17/93	10/15/93	14	29	19	2	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543206	· 1	9/20/93	9/22/93	14	29	19	2	0	HILLSBOROUGH CO BOCC	601 E KENNEDY BLVD 23RD FLOOR	`TAMPA	FL	33602
543251	1	9/21/93	10/5/93	14	29	19	4	0	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543251	2	9/21/93	10/12/93	14	29	19	4	Ó	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543251	3	9/21/93	10/20/93	14	29	19	4	0	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543251	4	9/21/93	10/20/93	14	29	19	4	ō	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	
	5	9/21/93	11/20/93	14	29	19	4	ŏ	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY			30528
543251					29		4	ö	ICI/STAUFFER MGT. C/O CDM		ATLANTA	GA ·	30528
543251	6	9/21/93	11/10/93	14		19	•			2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543251	7	9/21/93	11/20/93	14	29	19	4	0	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543251	8	9/21/93	11/19/93	14	29	19	4	0	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543252	1	9/21/93	10/15/93	14	29	19	6	0	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543253	1	9/21/93	10/28/93	14	. 29	19	6	0	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543254	1	9/21/93	11/6/93	14	- 29	19	. 6	Ö	ICI/STAUFFER MGT, C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543255	1	9/21/93	11/1/93	14	29	19	6	0	ICI/STAUFFER MGT, C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543256	1	9/21/93	11/18/93	14	29	19	6	ō	ICI/STAUFFER MGT, C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA	30528
543257	i	9/21/93	11/23/93	14	29	19	. 6	õ	ICI/STAUFFER MGT. C/O CDM	2100 RIVEREDGE PARKWAY	ATLANTA	GA GA	
	•		9/28/93	14	29	19	2	Ŏ.	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	T		30528
543386	1	9/24/93	\$120193	144	23	13	4	U	TIELENA OF IEMIOAE OUTS OFATION	2400 NORTH / TOT STREET	TAMPA	FL	33607
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NUMB	NO		COMPLETED	S	T	R	DIA	CODE		ADDRESS	CITY	STATE	ZIP
543386	2	9/24/93	9/28/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
543386	3	9/24/93	9/28/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
543386	4	9/24/93	9/28/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
543386	5	9/24/93	9/28/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
543387	1	9/24/93	9/28/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
543387	2	9/24/93	9/28/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
543387	3	9/24/93	9/28/93	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
543429	1	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543429	2	9/27/93	10/15/93	14	29	19	1 -	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543429	3	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543429	4	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543429	5	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543429	6	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	
543429	7	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543429	8	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543444	1	9/27/93	10/15/93	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543444	2	9/27/93	10/15/93	14	29	19	1	Õ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA		33606
543444	3	9/27/93	10/15/93	14	29	19	1	ō	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543444	4	9/27/93	10/15/93	14	29	19	1	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST		FL	33606
543444	5	9/27/93	10/15/93	14	29	19	1	ő	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543444	6	9/27/93	10/15/93	14	29	19	1	Õ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543444	7	9/27/93	10/15/93	14	29	19	1	Õ	FLORIDA STEEL CORP		TAMPA	FL	33606
543444	8	9/27/93	10/15/93	14	29	19	i	Ö	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
543475	1	9/28/93	11/3/93	14	29	19	2	ő	WHEELBLAST, INC.	1715 CLEVELAND ST	TAMPA	FL	33606
543475	2	9/28/93	11/1/93	14	29	19	2	Ö	WHEELBLAST, INC.	3951 COPELAND DR	ZEPHYRHILLS	FL	33540
543475	3	9/28/93	10/6/93	14	29	19	2	0		3951 COPELAND DR	ZEPHYRHILLS	FL	33540
544886		11/3/93	11/4/93	14	29	19	2	0	WHEELBLAST, INC.	3951 COPELAND DR	ZEPHYRHILLS	FL	33540
	1							0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
544887	1	11/3/93	11/4/93	14	29	19	2	-	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
552436	1	5/13/94	8/24/94	14	29	19	2	0	UNIVERSAL WASTE & TRANSIT INC	2002 N ORIENT AVE	TAMPA	FL	33619
552436	2	5/13/94	8/24/94	14	29	19	2	0	UNIVERSAL WASTE & TRANSIT INC	2002 N ORIENT AVE	TAMPA	FĹ	33619
552436	3	5/13/94	8/24/94	14	29	19	2	0	UNIVERSAL WASTE & TRANSIT INC	2002 N ORIENT AVE	TAMPA	FL	33619
552436	4	5/13/94	8/23/94	14	29	19	2	0	UNIVERSAL WASTE & TRANSIT INC	2002 N ORIENT AVE	TAMPA	FL	33619
562876	1	1/26/95	1/26/95	14	29	19	2	O	COMCAR INDUSTRIES	PO BOX 67	AUBURNDALE	FL	33823
562876	2	1/26/95	1/26/95	14	29	19	2	0	COMCAR INDUSTRIES	PO BOX 67	AUBURNDALE	FL	33823
562876	3	1/26/95	1/26/95	14	29	19	2	0	COMCAR INDUSTRIES	PO BOX 67	AUBURNDALE	FL.	33823
562876	4	1/26/95	1/26/95	14	29	19	2	0	COMCAR INDUSTRIES	PO BOX 67	AUBURNDALE	FL	33823
562876	5	1/26/95	1/26/95	14	29	19	2	0	COMCAR INDUSTRIES	PO BOX 67	AUBURNDALE	FL	33823
566694	1	4/28/95	5/10/95	14	29	19	2	0	FLORIDA STEEL CORPORATION	PO BOX 31328 .	TAMPA	FL	33631
566694	2	4/28/95	5/10/95	14	29	19	2	. 0	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
567055	1	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567055	2	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567055	3	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567055	4	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567055	5	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567055	6	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	17.15 CLEVELAND ST	TAMPA	FL	33606
567055	7	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567055	8	5/8/95	5/10/95	14	29	19	1	0	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	
567057	1	5/8/95	5/10/95	14	29	19	1	Ó	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567057	2	5/8/95	5/10/95	14	29	19	i	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL ·	33606
567057	3	5/8/95	5/10/95	14	29	19	1	ŏ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567057	4	5/8/95	5/19/95	14	29	19	1 .	ő	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA		33606
567057	. 5	5/8/95	5/10/95	14	29	19	. 1	Õ	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
567057	. 6	5/8/95	5/10/95	14	29	- 19	1	Ö	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
50,00,	Ü	, 0,0,00	5/10/55				•	<u> </u>	1 20.007 0 1222 00.0	17 10 OLLVELAIND 81	IAWIFA	FL	33606
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NUMB	МО		COMPLETED	S	T	R	DIA	CODE	OWNERS NAME	ADDRESS	CITY		ZIP
572328	1	9/28/95	10/2/95	14	29	19 19	2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
572328	2	9/28/95	10/2/95 10/2/95	14 14	29 29	19	2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
572328	3	9/28/95		14	29	19	2 2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
572328	4	9/28/95	10/2/95		29	19		o o	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
572328	5 6	9/28/95 9/28/95	10/2/95 10/2/95	14 14	29	19	2 2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
572328	7	9/28/95	10/2/95	14	29	19	2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
572328	8	9/28/95	10/2/95	14	29	19	2	Ö	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
572328 572934	1	10/19/95	10/20/95	14	29	19	2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
	2	10/19/95	10/20/95	14	29	19	2	ő	FLORIDA STEEL CORP	1715 CLEVELAND ST	TAMPA	FL	33606
572934 574566	1	12/14/95	12/15/95	14	29	19	2	0	FLA STEEL CORPORATION	1715 CLEVELAND ST	TAMPA	FL	33606
574566	2	12/14/95	12/15/95	14	29	19	2	0	FLA STEEL CORPORATION	1715 CLEVELAND STREET 1715 CLEVELAND STREET	TAMPA	FL	33601
576856	1	3/1/96	3/29/96	14	29	19	2	Ö	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33601
576856	2	3/1/96	3/29/96	14	29	19	2	Õ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576856	3	3/1/96	3/29/96	14	29	19	2	õ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA TAMPA	FL	33631
576856	4	3/1/96	3/29/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576856	5	3/1/96	3/29/96	14	29	19	2	ő	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576856	6	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576856	7	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576856	8	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576857	1	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328		FL	33631
576857	2	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA TAMPA	. FL	33631
576857	3	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576857	4	3/1/96	3/14/96	14	29	19	2	õ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576857	5	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576857	6	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
576857	7	3/1/96	3/14/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
578684	1	4/24/96	4/25/96	14	29	19	2	ŏ	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33631
580929	1	6/21/96	6/25/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33619
580929	2	6/21/96	6/26/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
580929	3	6/21/96	6/26/96	14	29	19	2	ő	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
580929	4	6/21/96	6/25/96	14	29	19	2	Ö	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL FL	33631
580929	5	6/21/96	6/25/96	14	29	19	2	Õ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA		33631
580929	6	6/21/96	6/28/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
580929	7	6/21/96	6/28/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL FL	33631
580929	8	6/21/96	6/28/96	14	29	19	2	ŏ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
580930	1	6/21/96	6/28/96	14	29	19	2	ō	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
580930	2	6/21/96	6/28/96	14	29	19	2	ō	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631 33631
580930	3	6/21/96	6/28/96	14	29	19	2	ō	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	
580933	1	6/21/96	7/1/96	14	29	19	2	ō	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631 33631
580933	2	6/21/96	7/1/96	14	29	19	2	ō	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
580933	3	6/21/96	7/1/96	14	29	19	2	Õ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	
5837.23	1	9/19/96	9/19/96	14	29	19	2	Ö	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33631
583723	2	9/19/96	9/19/96	14	29	19	2	Õ	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
583723	3	9/19/96	9/19/96	14	29	19	2	Ö	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL FL	33619
5837.23	4	9/19/95	9/19/96	14	29	19	2	ŏ	FLORIDA STEEL CORP	1800 ORIENT RD			33619
584044	1	10/1/96	10/2/96	14	29	19	2	Ö	MANTUA MANUFACTURING CO	6911 ADMO DR	TAMPA TAMPA	FL	33619
584044	2	10/1/96	10/2/96	14	29	19	2	Ö	MANTUA MANUFACTURING CO	6911 ADMO DR		FL	33619
584044	3	10/1/96	10/2/96	14	29	19	2	.0	MANTUA MANUFACTURING CO	6911 ADMO DR	TAMPA	FL ·	33619
	1	10/1/96	10/2/96	14	29	19	2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA	FL	33619
584377 584377	1 2	10/11/96	10/21/96	. 14	29	.19	2	0	FLORIDA STEEL CORP	1800 ORIENT RD	TAMPA TAMPA	FL	33619
	1	10/11/96	11/7/96	14	29	19	2	Ö	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FĻ.	33619
584463	2	10/15/96	11/7/96	14	29	19	2	ő	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584463	2	10/15/80	11/1/90	1-4	23	15		J	COLI CONOTTALO I OLITA	1301110011131	IAWIPA	FL	33609
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584463	3	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584463	4	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584463	5	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584463	6	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584463	7	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	1	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	2	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	3	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	4	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	5	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	6	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	7	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584464	8	10/15/96	10/22/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584466	1	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584466	2	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584466	3	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584466	4	10/15/96	11/7/96	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
584740	1	10/23/96	10/29/96	14	29	19	4	0	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL.	33605
584740	2	10/23/96	10/29/96	14	29	19	4	0 .	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
584740	3	10/23/96	10/28/96	14	29	19	4	0	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
584740	4	10/23/96	10/28/96	14	29	19	4	0	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
584905	1	10/29/96	10/29/96	14	29	19	4	0	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
584905	2	10/29/96	10/29/96	14	29	19	4	Ó	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	
585824	1	11/26/96	12/16/96	14	29	19	2	ō	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33605
585824	2	11/26/96	12/16/96	14	29	19	2	ō	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL.	33609
585824	3	11/26/96	12/16/96	14	29	19	2	ŏ	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL FL	33609
585824	4	11/26/96	12/16/96	14	29	19	2	ō	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
585824	5	11/26/96	12/16/96	14	29	19	2	ŏ	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA		33609
585824	6	11/26/96	12/16/96	14	29	19	2	Ö	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
585824	7	11/26/96	12/16/96	14	29	19	2	ŏ	GULF COAST RECYCLING	1901 N 66TH ST		FL	33609
585824	8	11/26/96	12/16/96	14	29	19	2	ő	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA TAMPA	FL.	33609
593608	1	6/10/97	6/11/97	14	29	19	4	ő	AMERI STEEL	5100 W. LEMON STREET, STE 312		FL	33609
593608	2	6/10/97	6/11/97	14	29	19	4	ő	AMERI STEEL		TAMPA	FL	33609
	3	6/10/97	6/11/97	14	29	19	Ā	õ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
593608				14	29	19	4	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
593608	4	6/10/97	6/11/97		29	19	2	0	IT CORPORATION	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
595965	1	8/11/97	8/14/97	14				0		4921 MEMORIAL HWY SUITE 100	TAMPA	FL	33634
595965	2	8/11/97	8/14/97	14	29	19	2	0	IT CORPORATION	4921 MEMORIAL HWY SUITE 100	TAMPA	FL	33634
595965	3	8/11/97	8/14/97	14	29	19	2	0	IT CORPORATION	4921 MEMORIAL HWY SUITE 100	` TAMPA	FL	33634
596604	1	8/28/97	9/10/97	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
596604	2	8/28/97	9/10/97	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
596604	3	8/28/97	9/10/97	14	29	19	2	_	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
596604	4	8/28/97	9/10/97	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
596604	5	8/28/97	9/10/97	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
596604	6	8/28/97	9/10/97	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
596604	7	8/28/97	9/10/97	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
596604	8	8/28/97	9/10/97	14	29	19	2	0	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
599637	1	11/19/97	12/1/97	14	29	19	2	0	ALARIC	2110 NORTH 71ST ST	TAMPA	FL	33619
599637	2	11/19/97	12/1/97	14	29	19	2	0	ALARIC	2110 NORTH 71ST ST	TAMPA	FL	33619
599637	3	11/19/97	12/1/97	14	29	19	2	0	ALARIC	2110 NORTH 71ST ST	TAMPA	FL	33619
610214	1	9/11/98	10/13/98	14	29	19	2	0	KARL WESTERMAN	4225 NAPERVILLE RD	LISLE	IL	60532
613586	1	12/15/98	12/21/98	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
613586	. 2	12/15/98	12/21/98	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
613586	3	12/15/98	12/21/98	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
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NUMB	NO		COMPLETED	S	T	R	DIA		OWNERS NAME	ADDRESS	CITY	STATE	ZIP
613586	4	12/15/98	12/21/98	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL.	33609
613586	5	12/15/98	12/21/98	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
613586	6	12/15/98	12/21/98	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
615361	1	2/2/99	2/3/99	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
617161	1	3/16/99	3/17/99	14	29	19	2	0	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL.	33610
617161	2	3/16/99	3/17/99	14	29	19	2	0	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
617161	3	3/16/99	3/17/99	14	29	19	2	0	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	F٤	33610
621002	1	6/1/99	6/4/99	14	29	19	5	0	TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
621003	1	6/1/99	6/4/99	14	29 29	19 19	2 2	0	TAMPA MILL TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
621003	2	6/1/99	6/4/99 6/4/99	14 14	29	19	2	0	TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
621003	3	6/1/99 6/1/99	6/4/99	14	29	19	2	Ö	TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
621003 621003	4 5	6/1/99	6/4/99	14	29	19	2	ő	TAMPA MILL	7105 6TH AVE 7105 6TH AVE	TAMPA	FL	32962
621003	6	6/1/99	6/4/99	14	29	19	2	ő	TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
621003	1	6/1/99	6/4/99	14	29	19	2	ŏ	TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
621004	2	6/1/99	6/4/99	14	29	19	2	ŏ	TAMPA MILL	7105 6TH AVE	TAMPA TAMPA	FL	32962
621004	3	6/1/99	6/4/99	14	29	19	2	ŏ	TAMPA MILL	7105 6TH AVE		FL	32962
621004	4	6/1/99	6/4/99	14	29	19	2	õ	TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
622554	1	7/2/99	7/7/99	14	29	19	2	ŏ	TAMPA MILL	7105 6TH AVE	TAMPA	FL	32962
622554	2	7/2/99	7/7/99	14	29	19	2	ő	TAMPA MILL	7105 6TH AVE	TAMPA TAMPA	FL	32962
623500	1	7/26/99	7/26/99	14	29	19	2	ŏ	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300		FL	32962
623500	2	7/26/99	7/26/99	14	29	19	2	ŏ	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA TAMPA	. FL	33610
623500	3	7/26/99	7/26/99	14	29	19	2	ŏ	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL FL	33610
624114	1	8/9/99	8/9/99	14	29	19	2	ŏ	CITY ENVIRONMENTALSERVICES	7202 E 8TH AVE	TAMPA		33610
624114	ż	8/9/99	8/9/99	14	29	19	2	Õ	CITY ENVIRONMENTALSERVICES	7202 E 8TH AVE	TAMPA	FL FL	33619
629937	1	1/7/00	1/19/00	14	29	19	2	ŏ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33619
629937	2	1/7/00	1/19/00	14	29	19	2	ŏ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629937	3	1/7/00	1/19/00	14	29	19	2	ŏ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609 33609
629937	4	1/7/00	1/19/00	14	29	19	2	ō	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629940	1	1/7/00	1/19/00	14	29	19	2	o	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629940	2	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629940	3	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL.	33609
629940	4	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629940	5	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629941	1	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629941	2	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629941	3	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629945	1	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	`TAMPA	FL	33609
629945	2	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629945	3	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629945	4	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629945	5	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
629945	6	1/7/00	1/19/00	14	29	19	2	0	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
630468	1	1/19/00	1/25/00	14	29	19	2	0	SPEEDWAY SUPER AMERICA LLC	3200 E PARKWAY SUITE 150	NORCROSS	GA	30092
630468	2	1/19/00	1/25/00	14	29	19	2	0	SPEEDWAY SUPER AMERICA LLC	3200 E PARKWAY SUITE 150	NORCROSS	GA	30092
630468	3	1/19/00	1/25/00	14	29	19	2 .	0	SPEEDWAY SUPER AMERICA LLC	3200 E PARKWAY SUITE 150	NORCROSS	GA	30092
630468	4	1/19/00	1/25/00	14	29	19	2	0	SPEEDWAY SUPER AMERICA LLC	3200 E PARKWAY SUITE 150	NORCROSS	GA	30092
630468	5	1/19/00	1/25/00	14	29	19	2	. 0	SPEEDWAY SUPER AMERICA LLC	3200 E PARKWAY SUITE 150	NORCROSS	GA	30092
631715	1	2/18/00	2/23/00	14	29	19	2	0	AMERICAN STEEL	5100 W LEMON ST SUITE 312	TAMPA	FL	33609
631715	2	2/18/00	2/23/00	14	29	19	2	0	AMERICAN STEEL	5100 W LEMON ST SUITE 312	TAMPA	FL	33609
631715	. 3	2/18/00	2/23/00	14	29	19	2	O	AMERICAN STEEL	5100 W LEMON ST SUITE 312	TAMPA	FL	33609
631715	. 4	2/18/00	2/23/00	14	29	19	2	0	AMERICAN STEEL	5100 W LEMON ST SUITE 312	TAMPA	FL	33609
633172	1	3/20/00	3/20/00	14	29	19	2	0	REPUBLIC INDUSTRIES	110 SOUTHEAST 6TH STREET	FT. LAUDERDALE	FL	33301
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NUMB NO 1 SISUED COMPLETED S T R DIA CODE COMPRES NAME ADDRESS CITY STATE 3P 83397 1 3 32000 3000 14 29 19 0.5 0 AMERI STEEL 5100 W. LEMON STREET, STE 312 TAMIFA FL 33000 83397 3 3 32000 50 0 12 29 19 0.5 0 AMERI STEEL 5100 W. LEMON STREET, STE 312 TAMIFA FL 33000 83397 3 3 32000 50 0 10 29 19 0.5 0 AMERI STEEL 5100 W. LEMON STREET, STE 312 TAMIFA FL 33000 83397 3 3 32000 50 0 10 29 19 0.5 0 AMERI STEEL 5100 W. LEMON STREET, STE 312 TAMIFA FL 33000 83397 3 3 32000 50 0 10 29 19 0.5 0 AMERI STEEL 5100 W. LEMON STREET, STE 312 TAMIFA FL 33000 83397 3 5 3000 50 0 10 29 19 0.5 0 AMERI STEEL 5100 W. LEMON STREET, STE 312 TAMIFA FL 33000 83397 3 5 3000 50 0 10 29 19 0 2 0 SPEEDWAY SUPER AMERICA LLD 5200 E-PARKWAY SUITE 19 NORGAROSS GA 3000 83397 3 0 7000 50 0 10 29 19 0 2 0 SPEEDWAY SUPER AMERICA LLD 5200 E-PARKWAY SUITE 19 NORGAROSS GA 3000 83397 3 0 7000 50 0 10 20 0 10 20 0 0 CSX 83543 4 1 10 0 7000 60 0 10 20 0 10 20 0 0 CSX 83542 1 1 10 0 0 10 0 10 0 20 0 10 20 0 0 CSX 83543 4 1 1 10 0 0 10 0 10 0 20 0 10 20 0 0 CSX 83543 4 1 1 10 0 0 10 0 10 0 20 0 10 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 1 10 0 20 0 10 0 20 0 0 CSX 83543 4 1 1 10 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0											•			
NOTE SAUGE COMPLETED S T R DIA CODE COMPRENAME ADDRESS CITY STATE ZP									WELL					
83387 7 3 304000 30000 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 6 30397 3 32400 30000 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 6 303000 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 30000 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 W.LEMON STREET, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEE, ST8 312 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5100 TAMPA FL 33090 7 3 30400 14 29 19 0.5 O AMERISTEEL 5					_	_	_							
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83397 3 3/2400 9/3000 14 29 19 0.5 0 AMERISTEEL 5100 M.LEMON STREET, STE 312 TAMPA FL 33000 55394 1 9/2400 8/000 14 29 19 0.5 0 AMERISTEEL 5100 M.LEMON STREET, STE 312 TAMPA FL 33000 55394 1 9/2400 8/000 14 29 19 0.5 0 AMERISTEEL 5100 M.LEMON STREET, STE 312 TAMPA FL 33000 55394 1 9/2400 8/000 14 29 19 2 0 0 SREEDWAY SUPER AMERICA LLC 3200 FARFWAY SURE 190 NORCROSS GA 30002 9/000 14 29 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 29 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 29 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 29 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 29 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 29 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 2 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 14 20 19 0 CSX 2710 STH AVE TAMPA FL 33000 STH									-	· - · · · · · ·	• • •			33609
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835444 1 5.4000 67600 14 29 19 2 0 SPEEDWAY SUPER AMERICA LLC 3200 E PARKWAY SUPER 160 10 NORCROSS GA 30052 637422 1 67700 68700 14 29 19 2 0 CSX 2710 STH AVE TAMPA FL 33601 64722 1 67700 68700 14 29 19 2 0 CSX 2710 STH AVE TAMPA FL 33601 64722 1 67700 68700 14 29 19 2 0 CSX 2710 STH AVE TAMPA FL 33601 64722 1 67700 6700 14 29 19 2 0 CSX 2710 STH AVE TAMPA FL 33601 64722 1 67700 6700 14 29 19 2 0 CSX 2710 STH AVE TAMPA FL 33601 64724 1 10/2300 10/2300 14 29 19 2 0 CSX 2710 STH AVE TAMPA FL 33601 64724 1 10/2300 10/2300 14 29 19 2 0 FLORIDA STEEL 7105 EGTH AVE TAMPA FL 33601 64134 1 12/2000 12/2100 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64124 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64124 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64124 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 0 75 0 GULF COAST RECYCLING 1001 NORTH ST TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 1 0 0 HELBN CHEMAC LOPPOPATION 2405 NORTH TST STREET TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 1 0 0 HELBN CHEMAC LOPPOPATION 2405 NORTH TST STREET TAMPA FL 33608 64424 1 12/2000 12/2000 14 29 19 1 0 0 HELBN CHEMAC LOPPOPATION 2405 NORTH TST STREET TAMPA FL 33609 64422 1 2 14/401 30001 14 29 19 1 0 0 HELBN CHEMAC LOPPOPATION 2405 NORTH TST STREET TAMPA FL 33609 64422 1 2 14/401 30001 14 29 19 1 0 0 HELBN CHEMAC LOPPOPATION 2405 NORTH TST STREET TAMPA FL 33609 64422 1 2 14/401 30001 14 29 19 2 0 SINGLETON BATTERY 212/20 N														
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### 843983 1 9/2900 9/2900 14 29 19 2 0 FLORIDA STEEL 7105 E BTH AVE TAMPA FL 33891 ### 843983 1 10/23200 12/2700 14 29 19 0 75 0 GULF COAST RECYCLING 1910 N 69TH ST TAMPA FL 33891 ### 841944 1 1/20200 12/2700 14 29 19 0 75 0 GULF COAST RECYCLING 1910 N 69TH ST TAMPA FL 33891 ### 841944 1 1/20200 12/2700 14 29 19 0 75 0 GULF COAST RECYCLING 1910 N 69TH ST TAMPA FL 33890 ### 841944 1 1/20200 12/2700 14 29 19 0 75 0 GULF COAST RECYCLING 1910 N 69TH ST TAMPA FL 33890 ### 841945 1 1/20200 12/2700 14 29 19 0 75 0 GULF COAST RECYCLING 1910 N 69TH ST TAMPA FL 33890 ### 841946 1 1/20200 12/2700 14 29 19 0 75 0 GULF COAST RECYCLING 1910 N 69TH ST TAMPA FL 33890 ### 841946 1 1/2020 1/20200 1									-					
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657467 3 8/14/01 8/17/01 14 29 19 0.75 O MANTUA MANUFACTURING CO 6911 ADMO DR TAMPA FL 33619									_					
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NUMB	NO		COMPLETED	s	T	R	DIA	CODE	OWNERS NAME	ADDRESS	CITY	STATE	ZIP
661014	2	11/8/01	11/16/01	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
661222	1	11/14/01	11/26/01	14	29	19	2	0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
663726	1	1/22/02	1/30/02	14	29	19	2	,0	GULF COAST RECYCLING	1901 N 66TH ST	TAMPA	FL	33609
666256	1	3/18/02	4/25/02	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
666256	2	3/18/02	4/25/02	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
666256	3	3/18/02	4/25/02	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
666256	4	3/18/02	4/25/02	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
666256	5	3/18/02	4/25/02	14	29	19	2	0	AMERISTEEL TAMPA	5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
673527	1	8/12/02	8/14/02	14	29	19	2	0	SINGLETON BATTERY	2120 N 71ST ST	TAMPA	FL.	33619.
674705	1	9/6/02	9/8/02	14	29 29	19	2	0	MANTUA MANUFACTURING CO INC	7900 NORTHFIELD RD	CLEVELAND	ОН	44146
674706	1	9/6/02	9/8/02	14 14	29	19 19	4	0	MANTUA MANUFACTURING CO INC	7900 NORTHFIELD RD	CLEVELAND	ОН	44146
674706	2	9/6/02 9/6/02	9/8/02 9/8/02	14	29	19	4	ő	MANTUA MANUFACTURING CO INC	7900 NORTHFIELD RD	CLEVELAND	OH	44146
674706	3 4	9/6/02	9/8/02	14	29	19	4	0	MANTUA MANUFACTURING CO INC	7900 NORTHFIELD RD	CLEVELAND	ОН	44146
674706 676313	1	10/16/02	10/18/02	14	29	19	2	0	MANTUA MANUFACTURING CO INC DANIEL HURST	7900 NORTHFIELD RD	CLEVELAND	OH	44146
	2	10/16/02	10/18/02	14	29	19	2	ő	DANIEL HURST	1411 NORTH KINGSWAY	BRANDON	FL	33510
676313	3	10/16/02	10/18/02	14	29	19	2	Ö	DANIEL HURST	1411 NORTH KINGSWAY	BRANDON	FL	33510
676313	1	11/4/02	11/7/02	14	29	19	2	ő	HELENA CHEMICAL CORPORATION	1411 NORTH KINGSWAY	BRANDON	FL	33510
677104 677104	2	11/4/02	11/7/02	14	29	19	2	ő	HELENA CHEMICAL CORPORATION	2405 NORTH 71ST STREET	TAMPA	FL	33607
677240	1	11/6/02	11/22/02	14	29	19	6	Ö	A & D RECYCLING & HAULING	2405 NORTH 71ST STREET 7006 E 9TH AVE	TAMPA	FL	33607
677241	i	11/6/02	11/24/02	14	29	19	6	õ	A & D RECYCLING & HAULING	7006 E 9TH AVE	TAMPA	FL	33619
677242	1	11/6/02	11/22/02	14	29	19	2	ŏ	A & D RECYCLING & HAULING	7006 E 9TH AVE	TAMPA	FL	33619
677247	1	11/6/02	11/20/02	14	29	19	6	ő	NATIONAL FISHERIES	7104 E 9TH AVE	TAMPA	FL	33619
677248	í	11/6/02	11/22/02	14	29	19	6	ŏ	NATIONAL FISHERIES	7104 E 9TH AVE	TAMPA	FL .	33619
677249	1	11/6/02	11/23/02	14	29	19	2	Õ	NATIONAL FISHERIES	7104 E 9TH AVE	TAMPA	FL	33619
677250	1	11/6/02	12/4/02	14	29	19	6	ŏ	GULF COAST METALS COMPANY INC	6912 E 9TH ST	TAMPA	FL	33619
	1	11/6/02	12/5/02	14	29	19	6	ő	GULF COAST METALS COMPANY INC	6912 E 9TH ST	TAMPA	FL	33619
677251	-	11/26/02	11/29/02	14	29	19	2	0	MANTUA MANUFACTURING CO INC		TAMPA	FL	33619
678118 680717	1 1	2/11/03	2/13/03	14	29	19	2	ő	GULF COAST RECYCLING	7900 NORTHFIELD RD 1901 N 66TH ST	CLEVELAND	OH	44146
-	1	3/25/03	3/27/03	14	29	19	1	ŏ	LEE OGLESBY	2110 NORTH 71 ST STREET	TAMPA	FL.	33609
682551	2	3/25/03	3/27/03	14	29	19	1	ŏ	LEE OGLESBY	2110 NORTH 71 ST STREET	TAMPA	FL.	33619
682551 682551	3	3/25/03	3/27/03	14	29	19	1	Ö	LEE OGLESBY	2110 NORTH 71 ST STREET	TAMPA	FL	33619
682551	4	3/25/03	3/27/03	14	29	19	1	Ö	LEE OGLESBY	2110 NORTH 71 ST STREET	TAMPA	FL	33619
684603	1	5/12/03	5/15/03	14	29	19	1	. 0	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA TAMPA	FL	33619
684603	2	5/12/03	5/15/03	14	29	19	1	. 0	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA	FL.	33619
684603	3	5/12/03	5/15/03	14	29	19	1	ŏ	SAIA MOTOR FREIGHT	2414 N 70TH ST		FL	33619
685505	1	5/30/03	5/30/03	14	29	19	0.75	ŏ	US ARMY CORP OF ENGINEERS	PO BOX 4970	TAMPA JACKSONVILLE	FL	33619
685505	2	5/30/03	5/30/03	14	29	19	0.75	ŏ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL FL	32232
692966	1	12/2/03	12/10/03	14	29	19	1.5	ő	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232
692966	2	12/2/03	12/10/03	14	29	19	1.5	ŏ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232 32232
692966	3	12/2/03	12/10/03	14	29	19	1.5	ō	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232
692966	4	12/2/03	12/10/03	14	29	19	1.5	ō	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232
692966	5	12/2/03	12/10/03	14	29	19	1.5	ŏ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	
692966	6	12/2/03	12/10/03	14	29	19	1.5	ŏ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232 32232
692966	. 7	12/2/03	12/10/03	14	29	19	1.5	Õ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232
692966	8	12/2/03	12/10/03	14	29	19	1.5	Ö	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	
	1	12/2/03	12/10/03	14	29	19	1.5	ŏ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE		32232
692968	2	12/2/03	12/10/03	14	29	19	1.5	ŏ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232
692968	3	12/2/03	12/10/03	14	29	19	1.5	õ	US ARMY CORP OF ENGINEERS	PO BOX 4970	JACKSONVILLE	FL	32232
692968		12/2/03	12/10/03	14	29	19	1.5	Ö	US ARMY CORP OF ENGINEERS	PO BOX 4970 PO BOX 4970		FL	32232
692968	- 4	4/22/04	4/26/04	14	29	19	2	0	CIRCLE K	PO BOX 52085	JACKSONVILLE	· FL	32232
699666	1	4/22/04	4/26/04	14	29	19	2	Ô	CIRCLE K	PO BOX 52085	PHOENIX	, AZ	85072
699666	2		4/26/04	14	29	19	2	0.	CIRCLE K	PO BOX 52065 PO BOX 52085	PHOENIX	AZ	85072
699666	3	4/22/04	4/20/04	14	29	127	۷.		OINOLE IX	1 0 000 32000	PHOENIX	AZ .	85072
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NUMB	NO	ISSUED	COMPLETED	s	т	R	DIA		OWNERS NAME	ADDRESS		CITY	CTATE	716
699666	4	4/22/04	4/26/04	14	29	19	2	0	CIRCLE K	PO BOX 52085			STATE	ZIP
709802	1	11/17/04	*1/20/04	14	29	19	2	ő	STAUFFER MANAGEMENT CO	1800 CONCORD	E DIVE	PHOENIX	AZ	85072
					29	19	2	Ö	STAUFFER MANAGEMENT CO			WILMINGTON	DE	19850
709802	2	11/17/04		14				_		1800 CONCORD		WILMINGTON	DE	19850
709802	3	11/17/04		14	29	19	2	0	STAUFFER MANAGEMENT CO	1800 CONCORD		WILMINGTON	DE	19850
709802	4	11/17/04		14	29	19	2	O.	STAUFFER MANAGEMENT CO	1800 CONCORD		WILMINGTON	DE	19850
709802	5	11/17/04		14	29	19	2	0	STAUFFER MANAGEMENT CO	1800 CONCORD	Æ PIKE	WILMINGTON	DE	19850
709802	6	11/17/04		14	29	19	2	0	STAUFFER MANAGEMENT CO	1800 CONCORD	E PIKE	WILMINGTON	DE	19850
709802	7	11/17/04		. 14	29	19	2	0	STAUFFER MANAGEMENT CO	1800 CONCORD	E PIKE	WILMINGTON	DE	19850
709802	8	11/17/04		14	29	19	2	0	STAUFFER MANAGEMENT CO	1800 CONCORD	E PIKE	WILMINGTON	DE	19850
709813	1	11/17/04		14	29	19	2	0	STAUFFER MANAGEMENT CO	1800 CONCORD	E PIKE	WILMINGTON	DE	19850
575514	1	1/23/96	1/25/96	14	29	19	2	Т	FLA STEEL CORPORATION	1715 CLEVELAN		TAMPA	FL	33601
575514	2	1/23/96	1/25/96	14	29	19	2	т	FLA STEEL CORPORATION	1715 CLEVELAN		TAMPA	FL	33601
554973	1	7/7/94	7/13/94	14	29	19	6	Ú	RADIANT OIL COMPANY	2004 DURHAM S		TAMPA	FL	33605
586473	1	12/17/96	12/17/96	14	29	19	5	Ū	STAUFFER CHEMICAL CO	2009 ORIENT RE		TAMPA	FL.	
642164	i	9/18/00	9/21/00	14	29	19	5	Ŭ	AMERISTEEL TAMPA		ON STREET SUITE	TAMPA		33605
687041	i	7/9/03	7/21/03	14	29	19	6	ŭ	US ARMY CORP OF ENGINEERS	PO BOX 4970	ON STREET SUITE		FL	33609
		7/9/03	8/1/03	14	29	19	6	บ	US ARMY CORP OF ENGINEERS			JACKSONVILLE	FL	32232
687042	1						6	Ü		PO BOX 4970		JACKSONVILLE	FL	32232
687043	1	7/9/03	8/1/03	14	29	19	_		US ARMY CORP OF ENGINEERS	PO BOX 4970		JACKSONVILLE	FL	32232
687044	1	7/9/03	8/1/03	14	29	19	6	Ü	US ARMY CORP OF ENGINEERS	PO BOX 4970		JACKSONVILLE	FL	32232
362971	1	3/16/81	3/11/81	14	29	19	6	Υ	COOK LUMBER CO INC.	1905 N 66TH ST		TAMPA	FL.	33619
382788	1	6/6/83	6/5/83	14	29	19	10	Y	A L WELDING PRODUCTS	1502 ORIENT RE		TAMPA	FL	33601
385101	1	8/31/83	10/3/83	14	29	19	4	Υ	STAUFFER CHEMICAL CO	2009 ORIENT RE)	TAMPA	FL	33605
385102	1	8/31/83	10/3/83	14	29	19	6	Υ	STAUFFER CHEMICAL CO	2009 ORIENT RE)	TAMPA .	FL.	33605
385103	1	8/31/83	10/3/83	14	29	19	6	Υ	STAUFFER CHEMICAL CO	2009 ORIENT RD)	TAMPA	FL	33605
393936	1	7/16/84	2/20/86	14	29	19	2	Υ	DAVID JOSEPH COMPANY	1002 ORIENT RO	DAD	TAMPA	FL	33605
466007	1	8/22/88	8/23/88	14	29	19	2	Υ	DAVID JOSEPH CO	PO BOX 11928		TAMPA	FL	33607
466256	1	8/26/88	8/27/88	14	29	19	3	Υ	EQUITY INVESTMENTS CORP	11300 N CENTRA	AL AVE	TAMPA	FL.	33612
473948	1	1/9/89	1/12/89	14	29	19	4	Υ	SOUTHWEST FLA WATER MGT DISTRICT	2379 BROAD ST		BROOKSVILLE	FL	34604
481208	1	6/1/89	6/5/89	14	29	19	4	Ý	N.U.S. CORPORATION	1300 N, 17TH ST		ARLINGTON	VA	
481209	1	6/1/89	6/7/89	14	29	19	4	Ý	N.U.S. CORPORATION	1300 N. 17TH ST		ARLINGTON		22209
501414	1	7/9/90	7/12/90	14	29	19	4	Ý	HILLSBOROUGH CO DEPT OF PUBLIC		1. STE. 1320 01 E KENNEDY BLV		VA	22209
	•				29	19	2	Ϋ́	METALS, R & L			TAMPA	FL	33601
502821	1	8/10/90	8/10/90	14						1902 ORIENT RE		TAMPA	FL	33699
502822	1	8/10/90	8/10/90	14	29	19	2	Y	METALS, R & L	1902 ORIENT RE		TAMPA	FL	33699
502823	1	8/10/90	8/10/90	14	29	19	2	Y	METALS, R & L	1902 ORIENT RE		TAMPA	FL	33699
514878	1	7/1/91	7/9/91	14	29	19	4	Υ	HYDROCONDUIT	11915 62ND STR		TAMPA	FL	33605
514879	1	7/1/91	7/9/91	14	29	19	6	Υ	HYDROCONDUIT	11915 62ND STR		TAMPA	FL	33605
547610	1	1/27/94	1/31/94	14	29	19	2	Υ	WHEELBLAST, INC.	3951 COPELAND) DR	ZEPHYRHILLS	FL	33540
548521	1	2/18/94	2/23/94	14	29	19	2	Y	FRUEHAUF TRAILER CORP	26999 CENTRAL	. PARK BLVD	SOUTHFIELD	M	48076
548521	2	2/18/94	2/23/94	14	29	19	2	Y	FRUEHAUF TRAILER CORP	26999 CENTRAL	. PARK BLVD	SOUTHFIELD	MI	48076
548521	3	2/18/94	2/23/94	14	29	19	2	Υ	FRUEHAUF TRAILER CORP	26999 CENTRAL	PARK BLVD	SOUTHFIELD	MI	48076
555567	1	11/29/94	7/22/94	14	29	19	2	Y	HELENA CHEMICAL CORPORATION	2405 NORTH 715	ST STREET	TAMPA :	FL	33607
568662	1	6/13/95	12/4/95	14	29	19	2	Υ.	COMMERCIAL WAREHOUSING INC	502 BRIDGES AV	VE E	AUBURNDALE	FL	33823
568662	Ż	6/13/95	12/4/95	14	29	19	2	Υ	COMMERCIAL WAREHOUSING INC	502 BRIDGES AV	VEE	AUBURNDALE	FL	33823
568662	3	6/13/95	12/4/95	14	29	19	2	Υ	COMMERCIAL WAREHOUSING INC	502 BRIDGES AV		AUBURNDALE	FL	33823
568662	4	6/13/95	12/4/95	14	29	19	2	Y	COMMERCIAL WAREHOUSING INC	502 BRIDGES AV		AUBURNDALE	FL	33823
568662	5	6/13/95	12/4/95	14	29	19	2	Ý	COMMERCIAL WAREHOUSING INC	502 BRIDGES AV		AUBURNDALE	FL	
		6/13/95	12/4/95	14	29	19	2	Ý	COMMERCIAL WAREHOUSING INC	502 BRIDGES AV		AUBURNDALE		33823
568662	6								The state of the s		7E E		FL	33823
573013	1	10/23/95	10/25/95	14	29	19	2	Y	FLORIDA STEEL CORPORATION	PO BOX 31328		TAMPA	FL	33631
573013	2	10/23/95	10/25/95	14	29	19	2	Y	FLORIDA STEEL CORPORATION	PO BOX 31328		TAMPA	FL	33631
573013	. 3	10/23/95	10/25/95	14	29	19	2	γ.	FLORIDA STEEL CORPORATION	PO BOX 31328	•	TAMPA	FL .	33631
573013	4	10/23/95	10/25/95	14	29	19	2	Y	FLORIDA STEEL CORPORATION	PO BOX 31328		TAMPA	FL]	33631
573013	5	10/23/95	10/25/95	.14	29	. 19	2	Υ	FLORIDA STEEL CORPORATION	PO BOX 31328		TAMPA	FL	33631
573013	6.	10/23/95	10/25/95	. 14 .	. 29	19	. 2	Υ	FLORIDA STEEL CORPORATION	PO BOX 31328		TAMPA	FL	33631
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NUMB	NO		COMPLETED	S	Т	R	DIA	CODE	OWNERS NAME	ADDRESS	CITY	STATE	ZIP
579948	1	5/28/96	6/6/96	14	29	19	2	Y	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
579948	2	5/28/96	6/6/96	14	29	19	2	Y	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
579948	3	5/28/96	6/6/96	14	29	19	2	. Y	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
580810	1	6/19/96	6/24/96	14	29	19	2	Y	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
591600	1	4/21/97	4/22/97	14	29	19	2	Y	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA .	FL	33610
591600	2	4/21/97	4/22/97	14	29	19	2	Y	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
591600	3	4/21/97	4/22/97	14	29	19	2	Y	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
591600	4	4/21/97	4/22/97	14	29	19	2	Y	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
608363	1	7/21/98	7/28/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608363	2	7/21/98	7/28/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608363	3	7/21/98	7/28/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608363	4	7/21/98	7/28/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608363	. 5	7/21/98	7/28/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608363	6	7/21/98	7/28/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608363	7	7/21/98	7/28/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608363	8	7/21/98	7/28/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608365	1	7/21/98	7/28/98	14	29	19	8	Υ	FLORIDA STEEL CORPORATION	PO BOX 31328	TAMPA	FL	33631
608367	1	7/21/98	7/28/98	14	29	19	2.	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608368	. 1	7/21/98	7/28/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
608369	1	7/21/98	7/28/98	14	29	19	4	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611969	1	11/2/98	11/12/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	. FL	33609
611969	2	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611969	3	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611969	4	11/2/98	11/12/98	14	29	19	2	7 °Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611969	5	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611969	6	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611969	7	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611969	8	11/2/98	11/12/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611970	1	11/2/98	11/12/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611970	2	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611970	3	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611970	4	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA .	FL	33609
611970	5	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611970	6	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611970	7	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611970	8	11/2/98	11/12/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	- 1	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	2	11/2/98	11/12/98	14	29	19	2	γ `-	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	3	11/2/98	11/12/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	4	11/2/98	11/12/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	5	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	6	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	7	11/2/98	11/12/98	14	29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611971	8	11/2/98	11/12/98	14	- 29	19	2	Υ	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611972	1	11/2/98	11/12/98	14	29	19	2	Ý	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611972	2	11/2/98	11/12/98	14	29	19	2	Y	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611972	3	11/2/98	11/12/98	14	29	19	2	Ý	AMERI STEEL	51,00 W. LEMON STREET, STE 312	TAMPA	FL	33609
	4	11/2/98	11/12/98	14	29	19	2	Ý	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611972	1	11/2/98	11/12/98	14	29	19	2	Ý	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	FL -	
611973				14	29 29	19	2	Ý.	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	4.6	33609
611973	2	11/2/98	11/10/98					Ÿ	AMERI STEEL	5100 W. LEMON STREET, STE 312		FL	33509
611973	3	11/2/98	11/10/98	14	29	19	2	Y Y	AMERISTEEL AMERISTEEL		TAMPA	FL	33609
611973	.4	11/2/98	11/10/98	14	29	19	2	Ÿ	· · · · · · · · · · · · · · · · · · ·	5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611973	5	11/2/98	11/10/98	14	29	19	2	Ť	AMERI STEEL	5100 W. LEMON STREET, STE 312	TAMPA	, FL	33609
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611973	6	11/2/98	11/10/98	14	29	19	2	Y Y	AMERI STEEL AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611974	1	11/2/98	11/10/98	14	29	19 19	2 2	Ϋ́	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611974	2	11/2/98	11/10/98	14	29 29	19	2	Ϋ́	AMERI STEEL		5100 W. LEMON STREET, STE 312 5100 W. LEMON STREET, STE 312	TAMPA TAMPA	FL	33609
611974	3	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		•		FL	33609
611974	4	11/2/98	11/10/98	14 14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312 5100 W. LEMON STREET, STE 312	TAMPA TAMPA	FL	33609
611974	5	11/2/98	11/10/98 11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611974	6 7	11/2/98 11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL FL	33609
611974 611974	8	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609 33609
611975	1	11/2/98	11/10/98	14	29	19	2	Ÿ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611975	2	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611975	3	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611975	4	11/2/98	11/10/98	14	29	19	2	Y	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611975	5	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611975	6	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611975	7	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611976	1	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611976	2	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611977	1	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611978	1	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611978	2	11/2/98	11/10/98	14	29	19	2	Y	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611978	3	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611978	4	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611978	5	11/2/98	11/10/98	14	29	19	2	Y	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611978	6	11/2/98	11/10/98	14	29	19	2	Ý	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	1	11/2/98	11/10/98	14	29	19	2	Y	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	2	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	3	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	4	11/2/98	11/10/98	14	29	19	2	Y	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	5	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	6	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	7	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
611979	8	11/2/98	11/10/98	14	29	19	2	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
612501	1	11/16/98	12/2/98	14	29	19	4	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
612502	1	11/16/98	12/2/98	14	29	19	4	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
612503	1	11/16/98	12/1/98	14	29	19	8	Υ	AMERI STEEL		5100 W. LEMON STREET, STE 312	TAMPA	FL	33609
615240	ì	1/29/99	2/1/99	14	29	19	4	Υ	LEE OGLESBY		2110 NORTH 71 ST STREET	TAMPA	FL	33619
644356	1	11/8/00	11/10/00	14	29	19	4	Υ	GCR		1901 N 66TH ST	TAMPA	· FL	33619
647177	1	1/19/01	1/26/01	14	29	19	4	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647178	1	1/19/01	1/26/01	14	29	19	2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647178	2	1/19/01	1/26/01	14	29	19	2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647178	3	1/19/01	1/26/01	14	29	19	2	Y	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647178	4	1/19/01	1/26/01	14	29	19	2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647179	1	1/19/01	1/26/01	14	29	19	2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647179	2	1/19/01	1/26/01	14	29	19	2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL .	33609
647179	3	1/19/01	1/26/01	14	29	19	2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647179	4	1/19/01	1/26/01	14	29	19	. 2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647179	5	1/19/01	1/26/01	14	29	19	2	Υ	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647179	- 6	1/19/01	1/26/01	14	29	19	2	Ϋ́	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647179	7	1/19/01	1/26/01	14	29	19	2	Y	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
647179	8	1/19/01	1/26/01	14	29	19	2	Y	AMERISTEEL TAMPA		5100 WEST LEMON STREET SUITE	TAMPA	FL	33609
648059	-1	2/7/01	2/9/01	14.	29	19	2	Υ	CITY ENVIRONMENTALSERVICES		7202 E 8TH AVE	TAMPA.	FL	33619
648059	2.	2/7/01	2/9/01	14	29	19	2	Ÿ	CITY ENVIRONMENTALSERVICES		7202 F 8TH AVE	TAMPA	FL	33619
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WCP	WELL							USE					
NUMB	NO	ISSUED	COMPLETED	s	т	R	DIA	CODE	OWNERS NAME	ADDRESS	CITY	07475	
649330	1	3/5/01	3/8/01	14	29	19	2	Y	CSX	2710 5TH AVE		STATE	
649330	2	3/5/01	3/8/01	14	29	19	2	Ý	CSX	2710 5TH AVE	TAMPA TAMPA	FL	33601
649330	3	3/5/01	3/8/01	14	29	19	2	Ý	CSX	2710 5TH AVE	TAMPA	FL	33601
659957	1	10/15/01	10/18/01	14	29	19	4	Ý	SOUTHWESTERN SUPPLIERS	6815 E 14TH ST	TAMPA	FL	33601
663652	1	1/17/02	1/29/02	14	29	19	2	Ý	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33610
663652	2	1/17/02	1/29/02	14	29	19	2	Ý	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL FL	33605
663652	3	1/17/02	1/29/02	14	29	19	2	Ý	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL FL	33605
663652	4	1/17/02	1/29/02	14	29	19	2	Ý	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
663652	5	1/17/02	1/29/02	14	29	19	2	Ý	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
663653	1	1/17/02	1/29/02	14	29	19	6	Ý	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
663654	1	1/17/02	1/29/02	14	29	19	4	Y	STAUFFER CHEMICAL CO	2009 ORIENT RD	TAMPA	FL	33605
668755	i	5/6/02	5/10/02	14	29	19	2	Ý	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33605 33610
668755	2	5/6/02	5/10/02	14	29	19	2	Ý	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
668755	3	5/6/02	5/10/02	14	29	19	2	Υ	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
668755	4	5/6/02	5/10/02	14	29	19	2	Υ	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
668755	5	5/6/02	5/10/02	14	29	19	2	Υ	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
668755	6	5/6/02	5/10/02	. 14	29	19	2	Y	CIRCLE K CORP	5650 BRECKENRIDGE PKWY #300	TAMPA	FL	33610
672328	1	7/15/02	7/16/02	14	29	19	2	Υ	MANNA PRO INC	7000 ADAMO DR	TAMPA	FL	33619
672328	2	7/15/02	7/16/02	14	29	19	2	Y	MANNA PRO INC	7000 ADAMO DR	TAMPA	FL	33619
672523	1	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672523	2	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672523	3	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672523	4	7/19/02	7/24/02	- 14	29	19	2	. Y	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672523	5	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672523	6	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672523	7	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672523	8	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672526	1	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672526	2	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672526	3	7/19/02	7/24/02	14	29	19	2	Y	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL.	32202
672526	4	7/19/02	7/24/02	14	29	19	2	Y	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
672529	1	7/19/02	7/24/02	14	29	19	2	Υ	CSX TRANSPORTATION	500 WATER STREET J350	JACKSONVILLE	FL	32202
677325	1	11/7/02	11/15/02	14	29	19	1	Υ	CSX TRANSPORTATION	5656 ADAMO DR	TAMPA	FL	33619
677325	2	11/7/02	11/15/02	14	29	19	1	Υ	CSX TRANSPORTATION	5656 ADAMO DR	TAMPA	FL	33619
705797	1	8/17/04	8/21/04	14	29	19	1	Y	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA	FL	33619
705797	2	8/17/04	8/21/04	14	29	19	1	Υ	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA	FL	33619
705797	3	8/17/04	8/21/04	14	29	19	1	Y	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA	FL	33619
705797	4	8/17/04	8/21/04	14	29	19	1	Υ	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA	FL	33619
705798	1	8/17/04	8/21/04	14	29	19	2	Y	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA	FL	33619
705798	2	8/17/04	8/21/04	14	29	19	2	Υ	SAIA MOTOR FREIGHT	2414 N 70TH ST	TAMPA	FL	33619
	-										•		

ATTACHMENT NO.12 FINANCIAL RESPONSIBILITIES AND INSURANCE

Letter of Credit Division

FAX NO: (313) 222-9115 SWIFT: MNBDUS33 COMERICA BANK 411 WEST LAFAYETTE (MC 3341) DETROIT, MI 48226

AMENDMENT TO LETTER OF CREDIT

CREDIT NUMBER OF ISSUING BANK: 588011-02

DECEMBER 8, 2009

APPLICANT:

EQ FLORIDA, INC. 7202 EAST \$TH AVE. TAMPA, FLORIDA 33619

BENEFICIARY: FINANCIAL OFFICER, FLORIDA DEP TWIN TOWERS OFFICE BLDG 2600 BLAIR STONE ROAD MS 4565 TALLAHASSEE, FL 32399-2400 **AMENDMENT NUMBER: 06**

ORIG

THIS AMENDMENT IS TO BE CONTIDE ED AS PART OF THE ABOVEC LEDIT AND JUST BE ATT CHI D'THER TO.

GENTLEMEN:

IN ACCORDANCE WITH INSTRUCTIONS RECEIVED FROM OUR PRINCIPALS, THE ABOVE CAPTIONED CREDIT HAS BEEN AMENDED AS FOLLOWS:

THE AMOUNT OF THIS CREDIT HAS INCREASED BY 5,228.60 USD.

THE AMOUNT OF THIS CREDIT ISSUED NOW TOTALS USD 266,658.69

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

VERY TRULY YOURS,

AUTHORIZED SIGNATURE



Florida Department of Environmental Protection

Bob Martínez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

Sent Via E-Mail

January 19, 2010

Stuart.Stapleton@EQonLine.com EQ of Florida, Inc. 7202 East 8th Avenue Tampa, Florida 33619-3380

Re: FLD 981 932 494 EQ of Florida, Inc. 7202 East 8th Avenue Tampa, Florida 33619-3380

Subject: Financial Responsibility Compliance for 2010

Dear Mr. Stapleton:

The department has received the documentation submitted to demonstrate financial responsibility. The amendment number 6 to Comerica Bank letter of credit number 588011-02 effective December 8, 2009 indicates an amount of \$266,659 to cover the inflation adjusted closure cost. The corresponding standby trust fund agreement was established on December 18, 2003 between EQ of Florida, as Grantor, and US Bank National Association, as Trustee. In addition, the American International Specialty Lines Insurance Company certificate of liability insurance policy number PLS2673560 effective August 1, 2009 shows the required coverage for sudden and nonsudden accidental occurrences.

Therefore, EQ of Florida is in compliance with the financial responsibility requirements of 40 CFR Part 264 Subpart H as adopted by reference in Rule 62-730.180 of the Florida Administrative Code.

If you have any questions, please contact Mr. Edgar Echevarría of my staff at 850-245-8793.

Sincerely,

Bryan Baker

Professional Geologist III

Buyan Bh

Hazardous Waste Regulation Section

BB/ee

Copy: <u>Stewart.RobertG@EPAmail.EPA.gov</u>

William.Kutash@DEP.State.Fl.US

FDEP File

A	CORD, (CERTII	FICATE OF LIA	BIL	ITY INS	URANG	E of	DATE 7/30	/09	
PRODU	Willis of Michigan, Inc. Willis of Michigan, Inc. 32255 Northwestern Hwy., Suite 201 Farmington Hills, MI 48375 THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE DOES NOT AMEND, EXTENDED THE CERTIFICATE DOES NOT AMEND.									
	(248) 539-66	500				INSURERS A	AFFORDING COVERAGE		. '	
INSUR	De monaminge	•			INSURER A: Am	erican Inter'l	Specialty Lines In	s Co		
	36255 Michig				INSURER B: Ne	w Hampshire In	surance Company tional Special Line	s Insurance	a Co	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						l Insurance Company			
	<u> </u>				INSURER E:					
	RAGES									
ANY	REQUIREMENT, TE PERTAIN, THE INSI	RM OR CONDIT JRANCE AFFOR	BELOW HAVE BEEN ISSUED TO TH ION OF ANY CONTRACT OR OTHE IDED BY THE POLICIES DESCRIBE IMAY HAVE BEEN REDUCED BY PA	R DOCUM D HEREIN	MENT WITH RES! I IS SUBJECT TO	PECT TO WHICH TH	IS CERTIFICATE MAY BE IS	SUED OR	•	
NSR JR	TYPE OF INSU	RANCE	POLICY NUMBER		DLICY EFFECTIVE ATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMIT			
	SENERAL LIABILITY		57666391	0	8/01/09	08/01/10	EACH OCCURRENCE	\$ 1,000		
P	COMMERCIAL GEN	10					FIRE DAMAGE (Any one fire)		,000	
	S100,000 De	dugtible				ti	MED EXP (Any one person) PERSONAL & ADV INJURY	s 1,000		
F							GENERAL AGGREGATE	\$ 2,000		
	POLICY PRO						PRODUCTS - COMP/OP AGG	\$ 2,000	,000	
В	AUTOMOBILE LIABILITY	1	CA7557770	0	8/01/09	08/01/10	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,00	0,000	
	ALL OWNED AUTO						BODILY INJURY (Per person)	\$		
K JE	HIRED AUTOS NON-OWNED AUTO	os					BODILY INJURY (Per accident)	\$	-	
							PROPERTY DAMAGE (Per accident)	S		
ļ.	BARAGE LIABILITY						AUTO ONLY - EA ACCIDENT	\$	·	
F	ANY AUTO		•				OTHER THAN EA ACC AUTO ONLY; AGG	\$		
c	EXCESS LIABILITY		576666618	0	8/01/09	08/01/10	EACH OCCURRENCE		0,000	
	OCCUR [CLAIMS MADE					AGGREGATE	\$ 25,00	0,000	
								\$	<u> </u>	
Ļ	DEDUCTIBLE							8		
a	NORKERS COMPENSA		WC6500646		1/01/09	01/01/10	WC STATU- OTH-	\$. ,	
	WORKERS COMPENSA EMPLOYERS' LIABILITY			"	m/ UL/ US	02,02,20	E.L. EACH ACCIDENT	\$ 1,00	000,00	
				}			E.L. DISEASE - EA EMPLOYEE	1 00	000,00	
							E.L. DISEASE - POLICY LIMIT		00,000	
	OTHER Contractor's Po	ollution		8	/1/09	8/1/10	Included Under Um	Tetts/ SXC6	88	
Dueci	DIDTION OF OPERATION	NSI OCATIONERIE	HICLES/EXCLUSIONS ADDED BY ENDO	RSEMENT	SPECIAL PROVISIO) NS				
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						1011	**************************************		- 1	
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	FOR INE	ormation Pu	rposes Only				Y OF ANY KIND UPON THE INS			
	,				REPRESENTAT	IVES.		<u> </u>		
					AUTHORIZED RE	PROESENTATIVE	enon Optogo			
ACO	RD 25-S (7/97)				1 1 1 1 1		© &CØSE C	ORPORATION	1988	

Pollution Legal Liability

Insurer: American International Specialty Lines Insurance Co

Policy Number: PLS 2673560

Policy Period: 8/01/2009 to 8/01/2012

Limit of Liability:

\$35,000,000. Each Incident \$35,000,000 Aggregate

Excess Pollution Legal Liability

Insurer: Illinois Union Insurance Company Policy Number:EXCG24881209001

Policy Period: 8/01/2009 to 8/01/2012

Limit of Liability:

\$15,000,000. Each Incident \$15,000,000 Aggregate

Contractor's Equipment

Insurer: Fireman's Fund Insurance Company

Policy Number: MXI93009311

Policy Period: 8/01/2009 to 8/01/2010

Limit of Liability:

\$500,000 Leased & Rented Limit

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

ATTACHMENT NO.13 FILTER PRESS LOG AND INSTRUCTIONAL MANUAL



Date	Profile #	DOT Name	DOT Hazard Class	EPA Waste Code	Quantity In	Quantity Liquid Out	Quantity Solid Out	Operator
					·			
								·
						·		
								:
							·	
	·		,					
					·			



FILTER PRESS

INSTRUCTION MANUAL

SERIAL NO. 3082

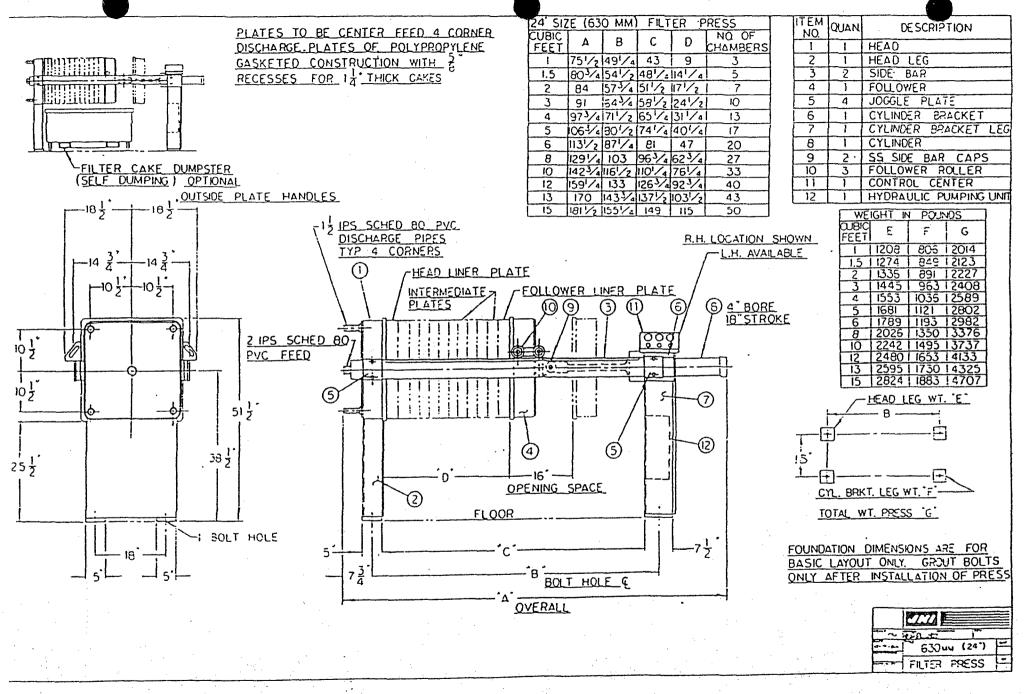
JWI, INC. 2155 112th Avenue Holland, MI 49423 (616) 772-9011

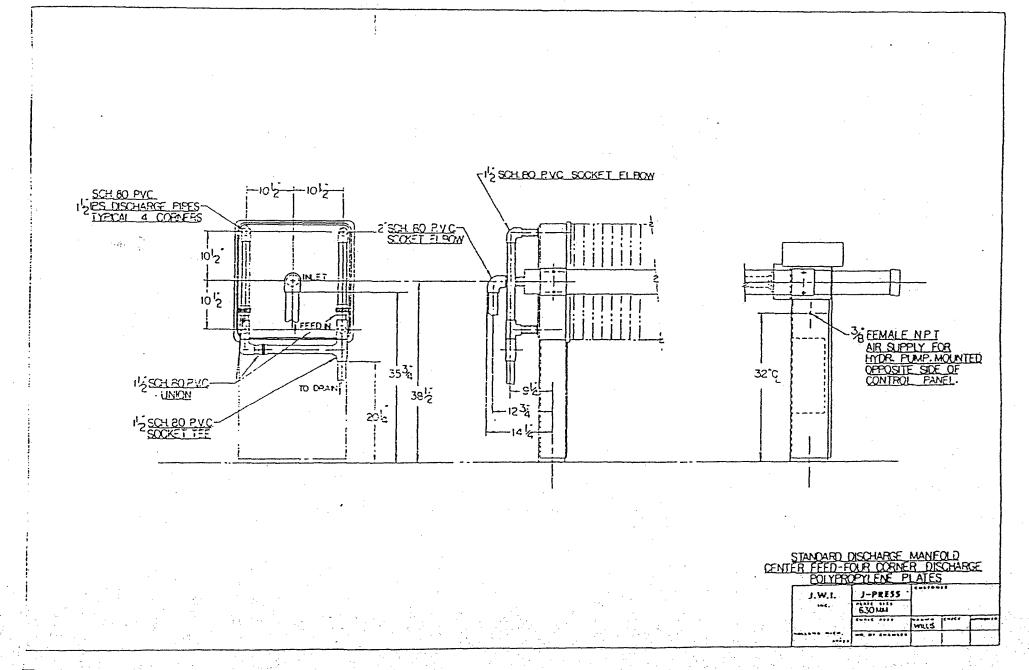
JWI FILTER PRESS MANUAL TABLE OF CONTENTS

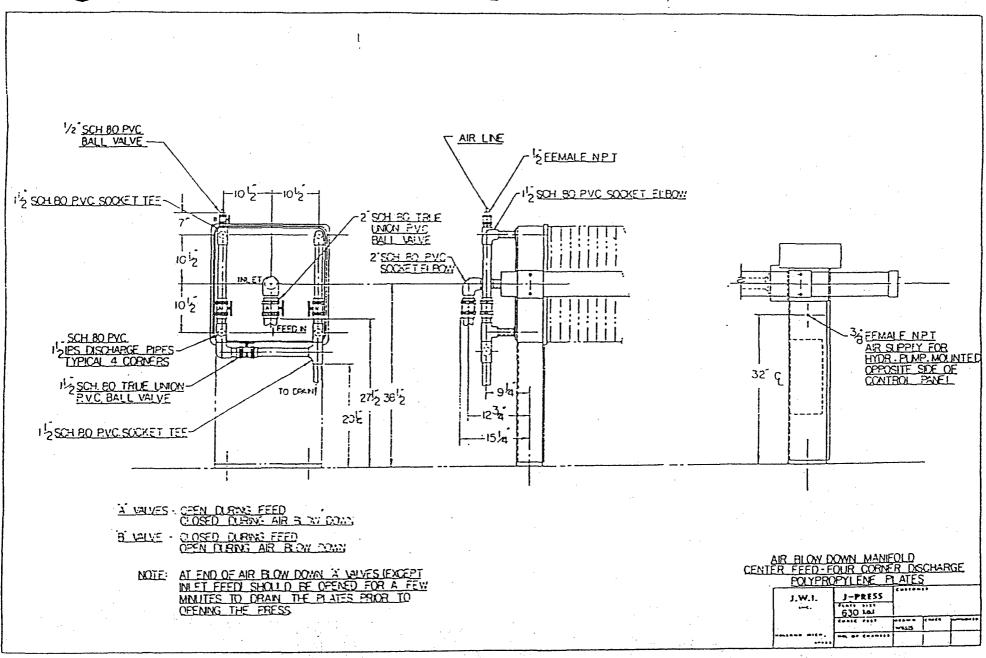
											•			Section
Filter Press Specification .	•				•	•	•			•		•		1
Set-Up Instructions					•					•	•	•		2
Operation of Filter Press .				•					•	•	•		•	. 3
General Maintenance	•	•	:			•		÷			•	•	• ·	4
Trouble-shooting			•				•		•	•		•		5
Hydraulic Closure System		•	•		. •		٠			•	٠.		•	6
Filter Plates and Cloths	•	•	•						•	•	•			7
Options	•	•	•	•			. •		•	•.	•			8
Spare Parts											•		•	9/

IWI FILTER PRESS SPECIFICATIONS

MODEL NUMBER630N32-13/27-4/8DA
SERIAL NUMBER
TOTAL VOLUME -CU.FT4 TO B
VOLUME/CHAMBER - CU.FT3
TOTAL AREA - SQ. FT
NUMBER OF CHAMBERS
OVERALL LENGTH OF PRESS
OVERALL WIDTH OF PRESS
CLEARANCE - FLOOR TO PLATES
PLATE SIZE - INCHES
мм630
PLATE STYLENCIN-GASKETED
GASKET STYLEO'RING
FILTER CLOTH#7383 35CRM
CLOSING DEVICE AIR POWERED HYD. PUMP
CONTROL LOCATIONLEFT HAND
AIR SUPPLY REQUIRED - MAXIMUM28 CFM
HYDRAULIC CLOSING PRESSURE MAX. PSI4450
RELIEF VALVE SETTING - PSI
HYDRAULIC RESERVIOR CAPACITY 2 1/2 GALLONS
HYDRAULIC OIL RECOMMENDED
HYDRAULIC CYLINDER - SIZE
T: #E PARKER
MAXIMUM INLET FEED PUMP PRESSURE
DISCHARGE MANIFOLD (STYLE)AIR BLOWDOWN
OPTION: DISTANCE PIECE, DRUM DISPOSAL SYSTEM







|W| |

SET UP INSTRUCTIONS

The JWI filter press is normally shipped completely assembled and pre-tested.

<u>CAUTION</u>: Use care in handling the filter press so as not to damage any components such as discharge extension pipes, plate handles, or hydraulic system.

- Mount the filter press level to floor, platform, or extension legs through the base holes provided. NOTE: Press must be clamped up and square before exact dimension can be established. (See enclosed drawing)
- 2. Connect center inlet pipe to discharge of feed pump. (See enclosed filter press or manifold drawing)
- 3. Install drain pipe to bottom outlet of discharge manifold. (See enclosed manifold drawing) IMPORTANT! Be sure outlet of drain pipe is below level of discharge manifold outlet.
- 4. If optional air blowdown manifold is used, connect air supply as shown on manifold drawing. Use regulated air pressure 50 PSI maximum.

Automatic Closure Models Only

Connecting Air Supply

Air supply to the JWI filter press should be clean, dry air at 125 PSI maximum.

NOTE: An air line drying system should be installed if high levels of moisture are present in your air supply. This will prevent extensive damage to the air circuit components in the system.

1. Connect air supply, using a minimum 3/8" I.D. pipe, to fitting marked air inlet located at hydraulic cylinder end of filter press.

NOTE: Use shut off valve in air line prior to filter press; air filter and regulators are incorporated within the filter press system.

OPERATION OF A FILTER PRESS AUTOMATIC CLOSURE

JWI uses an air over hydraulic system to open and close the filter press. To close the filter press, air pressure is applied to the hydraulic fluid reservoir, forcing hydraulic fluid into the rear of the hydraulic cylinder, rapidly extending the ram. The hydraulic pump is then turned on to reach the maximum closing pressure. To open the filter press the hydraulic pressure is released thru a pilot operated valve. Air pressure is directed to the front of the hydraulic fluid back to the reservoir tank.

To Close Filter Press

- 1. With air supply connected to filter press, line air pressure will register on gauge.
- 2. Turn selector switch to close position.
- 3. Thun air supply switch to on position. Regulated air pressure will register on gauge. Hydraulic cylinder will extend, closing the press.
- 4. Leave open-close selector switch in close position. With ram fully extended, turn hydraulic pump switch to on position. Leave hydraulic pump switch in on position when press is in operation. The hydraulic pump will engage, developing maximum closing pressure on hydraulic gauge.

 NOTE: Small amounts of air excaping momentarily from the hydraulic pump prior to stroking is normal. If maximum hydraulic pressure (see specification page one) is not reached, follow the instructions titled "Regulated Air Pressure" on page 8.
- 5. Open inlet valve and start feed pump. With air diaphragm feed pump cycling will slow as press becomes filled. With press completely filled, feed pump will stall. This usually occurs within 2 hours.
- 6. Turn off feed pump. This is done by shuttling off its air supply.
 - 7. Air blowdown (optional). Maximum pressure is 40 PST.
 - a. Close center inlet valve on line from feed pump.
 - b. Close the three valves on discharge manifold. (See diagram #3.)
 - c. Open air valve on discharge manifold expelling any water left in the press (approximately 2 minutes or longer).
 - d. Close air valve.
 - Open the three valves on discharge munifold. Leave inlet valve closed. This will allow gravity drainage of press (approximately 2 minutes).

To Open Filter Press

Note: Make sure feed pump has been furned off, and pressure has been bled down.

- 1. Turn hydraulic pump switch to off position.
- 2. Turn <u>selector</u> switch to <u>open</u> position. Hydraulic cylinder will retract, opening the press. (Air supply switch must be in <u>on</u> position.)
- 3. With press open, turn air supply to off position.
- 4. Clean plates.
 - a. Manually separate the plates. NOTE: New gaskets have a tendency to stick. Use care in separation of plates as not to damage them. Λ silicone spray can be used to eliminate this condition.
 - b. Use the non-abrasive nylon paddles furnished to remove any cake that has not fallen free. NOIE: Failure to thoroughly clean the plates can cause cracking due to unbalanced pressure build up.
 - c. All cake should be cleaned from sealing surfaces.
- 5. With the plates thoroughly cleaned, the press is ready for closing. NOTE: Follow instructions "To Close Filter Press."

CAUTION: If flow to the filter press is interrupted for a period of time, such as overnight, it is recommended that the feed pump be restarted at a low pressure for 5 to 10 minutes before slowly increasing to maximum pressure. When the feed to the press is interrupted, the sludge build up will have a tendency to fall from the sides of the chamber and settle to the bottom, possibly blocking the center feed hole. Restarting with high feed pressure does not give the sludge time to resoften and distribute itself in the chamber. Blockage of the center feed can cause uneven pressure build up and result in plate breakage.

Dunl Ratio Hydraulic System

System Operation

With the pump switch turned to the "on" position, both pumps will start simultaneously. The high volume 21:1 ratio pump will stall out at around 2000 PSI. The standard 71:1 ratio pump will continue to operate until maximum closing pressure is reached. The 21:1 ratio pump operates at line air pressure while the 71:1 ratio pump operates on regulated air pressure to control closing pressure.

(To identify Dual Ratio Hydraulic System, refer to 6.00)

REGULATED AIR PRESSURE

- A. The regulated air pressure to the hydraulic pump is proportionate to the hydraulic output pressure in an air to hydraulic ratio of 1 71. The air pressure regulator is mounted in the upper section of the pump cabinet (round, black knob) on the air line adjacent to the hydraulic pump. Regulated air pressure will be indicated on the control panel gauge.

 NOTE: Do not confuse this regulator with the pilot air regulator which is mounted below the hydraulic pump regulator. The pilot air regulator should read approximately 80 PSI on the accompaning gauge and is used only for pilot air supply.
- B. With filter press tightly closed, increase air pressure clockwise until maximum hydraulic pressure (see specifications sheet) is indicated on hydraulic pressure gauges. NOTE: A preset hydraulic pressure relief valve at the pump will not allow pressure to exceed maximum limit. If hydraulic pressure does not reach approximate maximum, see hydraulic pump section.
- C. If pump has reached maximum pressure but continues to cycle, decrease air pressure until the pump stalls, yet maintains maximum hydraulic pressure.
- D. With air pressure set, push in outer ring on regulator knob to lock in position.
- E. The air powered hydraulic pumping unit is designed to maintain a constant hydraulic pressure using no air consumption. The pump will automatically start and stop to maintain the preset pressure. (See hydraulic pump section.)

OPERATION OF A FILTER PRESS MANUAL CLOSURE

To Close Filter Press

- 1. Push the follower forward closing the stack of plates.
- 2. Pivot hydraulic ram downward into position.
- 3. Close release valve on hydraulic hard pump. NOTE: Hard tighten only.
- 4. Pump hydraulic hand pump until maximum closing pressure registers on gauge. (See specification sheet.)
- 5. Open inlet valve and start feed pump. With air diaphragm feed pump cycling will slow as press becomes filled. With press completely filled, feed pump will stall. This occurs within 2 hours. NOTE: In some applications it is recommended that the feed pump be started at a low pressure (25 PSI) then steadly increased to maximum 100PSI over a 15 minute period. See "Troubleshooting" on page 9.
- 6. Turn off feed pump. This is done by shutting off its air supply.
- 7. Air blow down (optional).
 - a. Close center inlet valve on line from feed pump.
 - b. Close the three valves on discharge manifold. (See enclosed diagram.)
 - c. Open air valve on discharge manifold expelling any water left in the press. (Approximately 2 minutes.) (NOTE: 50 PSI maximum.)
 - d. Close air valve.
 - Open the three valves on discharge manifold. Leave inlet valve closed. This will allow gravity drainage of press. (Approximately 2 minutes.)

To Open Filter Press

- 1. Release hydraulic pressure by turning the manual release valve on hydraulic hand pump counter clockwise.
- 2. Retract the hydraulic ram. This is done by grasping the handle at the top of the follower and pulling it towards the hydraulic hand pump. NOTE: This is necessary only on hydraulic rams that have gravity return. Those with spring return will retract automatically.
- Push follower forward tightly against the stack of plates.
- Lift hydraulic hand pump handle to the full up position.
- 5. Pivot hydraulic ram upward and allow it to rest on top of hydraulic hand pump.
- 6. Roll follower back to hydraulic hand pump end of filter press.
- 7. Clean plates:
 - a. Manually separate the plates.
 - b. Use the non-abrasive nylon paddles furnished to remove any cake that has not fallen free. NOTE: Make sure gasket sealing surfaces are free of filter cake.
- 8. With the plates thouroughly cleaned, the press is ready for closing. NOTE: Follow instructions "To Close Filter Press."

CAUTION: If flow to the filter press is interrupted for a period of time such as overnight, it is recommended that the feed pump be restarted at a source for 5 to 10 minutes before slowly increasing to max sumpressure. When the feed to the press is interrupted, the sludge build up will have a tendency to fall from the sides of the chamber and settle to the bottom, possibly blocking the center feed hole. Restarting with high feed pressure does not give the sludge time to resoften and distribute itself in the chamber. Blockage of the center feed can cause uneven pressure build up and result in plate breakage.

APPROXIMATE AIR USAG. R STANDARD J-PRESS®

(Press only, does no include feed pump)

	1	Approx	. SCFM/Number	of Minutes			
Cu. Ft. Press Size							
.6 to 1.5	2 to 5	6 to 10	ll to 20	21 to 35	36 to 60	61 to 100	
N/A	25 1 Min.	<u>25</u> 1 Min.	30 2 Min.	30 Z Min.	30 3 Min.	<u>30</u> 3 Min.	
	· ·					•	
A \ %	25 1 Min.	25 1 Min.	30 1 Min.	30 1 Min.	30 1 Min.	30 1 Min.	
2 to 5 5 Min.	5 to 15 5 Min.	15 to 25 5 Min.	25 to 50 5 Min.	50 to 90 5 Min.	<u>90 to 150</u> 5 Min.	150 to 25 5 Min.	
			;			4	
N/A	N/A	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	
			·				
	N/A N/A 	N/A 25 1 Min. N/A 25 1 Min. 2 to 5 5 Min. 5 to 15 5 Min.	.6 to 1.5	Cu. Ft. Press : .6 to 1.5	N/A 25 25 30 30 1 Min. 25 25 30 2 Min. N/A 25 25 30 30 1 Min. 1 Min. 1 Min. 1 Min. 2 to 5 5 to 15 15 to 25 25 to 50 50 to 90 5 Min. 5 Min. 5 Min. 5 Min.	Cu. Ft. Press Size .6 to 1.5 2 to 5 6 to 10 11 to 20 21 to 35 36 to 60 N/A 25 1 Min. 25 1 Min. 25 25 25 30 2 Min. 2 Min. 30 30 3 Min. N/A 25 1 Min. 1 Min. 1 Min. 1 Min. 1 Min. 2 to 5 5 Min. 5 Min. N/A N/A N/A N/A N/A 2 2 3 4	

^{*}A static pressure of 60 to 80 PSI with little or no consumption is required during press filling cycle.

^{**}Approximation only. Actual consumption based on cake porosity and other variables.

^{***}Based on approximate total cleaning time.

GENERAL MAINTENANCE

Manual Hydraulic System

Oil Reservior: Check oil level in reservoir with ram fully retracted. Watch for any signs of hydraulic oil leaks.

<u>Caution</u>: Do not over pressure system above specified closing pressure.

Air Over Hydraulic System

Check reservoir level periodically. Check complete hydraulic system for any signs of leaks.

Oil Reservior: Hydraulic oil - with hydraulic ram fully retracted, oil level should be approximately 1" from top of sight tube on tank.

Caution: Be sure all air pressure is off to filter press prior to removing 1/2" fill plug located on top of reservior tank.

Air Filter

The air filter is of the automatic self-draining type. For filter element replacement, see section on air filter.

Polypropylene Plates

Polypropylene plates should be inspected periodically for gasket deterioration and condition of filter cloths. See section on polypropylene plates and filter cloths.

Sealing surfaces of plates should be kept clean and free from build up.

TROUBLESHOOTING

PROBLEM		CAUSE		SOLUTION
Pump will not cycle.	1.	Inadequate air supply.	1.	Check air pressure and clc air system parts.
	2.	Air filter plugged.	2.	Check air regulator (see a regulator section).
•••	3.	Air valve off.	3.	Check air regulator (see a regulator section).
	4.	Restriction in air line.	4.	Check air regulator (see a regulator section).
	5.	Pump seals bad.	5.	Rebuild pump.
Pump cycles without building	1.	Check-valve in pump body malfunctions.	1.	Clean, inspect and replace necessary.
pressure or deadheading.	2.	Low reservoir level.	· . 2.	Fill reservoir with oil (s maintenance section.)
	3.	Filter plugged.	3.	Replace filter.
	4.	Bad scals in release valve.	4.	Replace seals in release valve.
·	5.	Bad cylinder seals.	5.	Replace cylinder scals.
	6.	Bad relief valve.	6.	Reset or replace relief va
Pump continues to cycle after it has	1.	Air pressure is set t∞ high.	1.	Decrease regulator pressur
reached maximum hydraulic pressure.	2.	Relief valve is set too low.	2.	Set relief valve to maximum pressure.
	3.	Malfunction of relief valve.	3.	Replace relief valve cartridge.
	4.	Failure of hydraulic cyli der seals.	4.	Replace seals in cylinder.

TROUBLESHOOTING (Continued)

BLEM		CAUSE		SOLUTION
dge pump stalls , indicating ss is full.	1.	Too low sludge pump air pressure.	1.	Increase pressure 100 PSI maximum.
ever, when the ss is opened, filter cake	2.	Sludge pump not stalled out long enough.	2.	Stall until one stroke/ minimum is reached.
solid near the th but watery the center.	3.	Oil in sludge forming an impermeable layer.	3.	Eliminate oil or add D.E. body feed.
are confect.	4.	Too high initial sludge pump pressure, causing particles to form too tightly on filter cloth.	4.	Start sludge pump at lower pressure, then slowly increase. (See operation of filter press.)
	5.	Filter cloths plugged.	5.	See section on filter cloths.
er leaks out ween plates.	1.	Gaskets loose or torn.	1.	Reinstall or replace. (See section on polypropylene plates.)
	2.	Low hydraulic pressure.	2.	Increase to required PSI.
ter cloths pull of grooves ing operation.		A full cake was not developed before wash or blowdown, causing cloth to be pushed out of caulking groove.		Be sure chambers are completely full before wash or blowdown. The filter cake will then support the cloth.
ter cloths pull of grooves ing operation, n though full es are being lt.		Improper size sash cord for cloth or application.		Future cloths should be made with a slightly larger sash cord. Contact JWI, Inc. for recommendations.

POLYPROPYLENE FILTER PLATES

Description

Our standard polypropylene recessed, center feed, four corner alternating discharge chamber plates are superior in corrosion resistance, design and function and are available in two basic types; gasketed and non-gasketed. We also offer flush plates/frames and membrane plates.

Maintenance

Gasketed Type

With this type plate, the filter cloth is caulked into a groove located around the outer edge of the plate recess.

Redressing Procedures:

To Remove Filter Cloth

To remove a filter cloth, insert a thin bladed screw driver into the groove at the outer edge of the caulking and pry a small section of the cloth out. Grab the exposed caulking with vise grip pliers and pull the remaining cloth out of the caulking groove. After the cloth is removed, inspect and remove any accumulated solids from the groove before inserting the new cloth.

To Install New Filter Cloth

On plates having a center feed eye with sewn centers, it will be necessary to fold the cloth on one side into a small section so that it can be inserted through the center feed eye. Once the cloth is pulled through the eye, it can be unfolded for caulking.

Sewn in Sash Cord Type

The drainage surface on a gasketed chamber plate has a caulking groove approximately 3/8" wide by 3/8" deep. Filter cloths are made for this type of plate by sewing in a high density polypropylene sash cord around the outer edge of the cloth. Cord diameter will depend on type of cloth and relative thickness being used. In most cases, a No. 12 (3/8" diameter) cord is used. The filter press specifications will indicate the type of cloth used. NOTE: It is important to keep in mird that if you change the type of filter cloth, you may have to use a different number (diameter) sash caulking. Consult JWI, Inc. for proper sizing.

O-Ring Caulking Type

The drainage surface on this type gasketed plate has a machined caulking groove which utilizes an o-ring to hold the filter cloth in place.

The tool for caulking is a simple wedge of polypropylene or some other non-shattering type material. 1" thick \times 3" wide \times 8" long with one end tapered down to 5/16" thickness \times 3" width, for use against the caulking material. Do not use a metal wedge.

Place the cloth against the plate and tap in a small section on the top to hold the cloth in position. Line up and caulk the diagonal sections first to insure proper alignment of the cloth. Distribute the caulking on the sides, top and bottom by caulking in the center of these long sections first. Then proceed to insert the balance of the caulking, making sure you distribute the caulking properly. Even though there may appear to be a surplus of material, this can be worked in easily.

NOTE: O-Ring Style Caulking: A hot knife is used to trim the excess cloth from the outer edge of the groove. The hot knife eliminates fraying of the filter cloth.

Regasketing Procedure:

The o-ring type gasket material is retained in dove tail grooves around the sealing surfaces and corner discharge eyes. The gasket is installed into the grooves so that approximately .030" to .060" of the gasket is protruding out of the groove providing the plate to plate seal.

When installing the gasket, make sure the gasket end is cut square. Insert the gasket starting at the bottom center of the filter plate using a wood or plastic mallet. Many installers will stretch the gasket which reduces the cross section sizing making it easier to insert. However, by stretching it for easier insertion, it has a tendency to creep and open the butted joints of the gasket and cause a leak.

Push the gasket into the groove around the outer edge of the plate until it mates up with the center of the plate. Cut the gasket approximately 1/2" to 1" longer than required, cutting the end square. Apply one or two drops of Eastman 910 (or super glue) to one end of the gasket and quickly join it to other end and hold it under hand pressure for approximately 30 seconds. Then, crowd the excess 1/2" to 1" of gasket into the groove to insure fullness of gasket material.

The same procedure applies for the discharge eye (ring) gaskets including the bonding together of the butted ends.

Gasket life will depend on many factors, such as length of filtration cycle, temperature, and excessive closing forces. Gasket replacement should take place if the gasket appears to be delaminating

or shreading into small particles. Also, if excessive temperatures exist and cycles are very long, the Nordel may go into additional cure, causing it to harden slightly.

While the Nordel elastomer is our standard gasket material, many other types have been used including Hypalon, neoprene, and Viton A. If the gasket life is unsatisfactory, contact JWI, Inc. for a suitable replacement.

Special Note: When gasketed plates are first put into use, the new gasket material may be slightly gummy and cause a few gaskets to pull out of the grooves when separating the plates. This condition will eliminate itself as product films are built up and act as a releasing agent. If a few of the gaskets show this characteristic, apply a silicone spray until the filter has been used for several days.

Non-Gasketed Type

With this type plate, the filter cloth provides the seal between the plates. Leakage will occur during operation even though JWI supplies most of the non-gasketed plate cloths with latex edging. The latex will cut down the wicking action somewhat but will not eliminate it.

Redressing Procedure:

To Remove Filter Cloth

Use diagonal cutters or snips to cut ties (if Supplied) on vertical sides and lift one cloth side off cloth pins on top of plate. Fold cloth and push thru center eye.

To Install New Filter Cloth

Fold and roll cloth on one side into a small section so that it can be inserted thru the center feed eye. Once the cloth is pulled thru, it can be unfolded and installed over the cloth pins on top of plate. Most types and sizes of cloth will be supplied with holes and/or grommets along the vertical sides for the installation of small plastic cable wire ties to further position and locate the cloth.

FILTER CLOTH WASHING

Filter cloths provided with the filter press have been selected specifically for use on each particular application.

Proper care and maintenance of the filter cloths are very important to the performance of the filter press.

During filtration, the filter cloth is the initial barrier that separates solids from liquid, therefore, the filter cloth must remain porous to provide high filtration rates.

During normal operation the filter cloth may gradually become plugged with minute particles, such as those from a metal finishing sludge. These particles penetrate the cloth and become lodged in the depth of the weave, which leads to decreased filterability. These particles must be removed periodically to maintain high filtration rates and drier cakes.

Filter cloth washing is required when one of the following factors indicate plugging has occured.

- 1. Initial high filtration pressure.
- 2. Long filtration cycles.
- 3. Wet filter cakes.

There are several methods used to wash cloths while they are still installed in the press. The most commonly used method with metal finishing sludge is acid washing which requires the following:

- 1. Acid storage tank of sufficient capacity to fill press and allow for recirculation, approximately 1.5 x holding capacity of press (7.5 gallons per cubic foot).
- 2. A 25% solution of hydrochloric (muriatic) acid. A lower or higher concentration may be necessary due to solubility levels of entrapped particles. NOTE: Extreme care must be taken when handling acid.
- 3. Low pressure (20-30 PSI max.) Acid remistant pump.
- 4. Necessary plumbing (hoses or rigid PVC pipe) to isolate the press from the sludge stream and allow for both recirculation to the acid storage tank and final draining of the spent acid solution. A throttling valve installed in the return line to the acid tank may be necessary to insure complete top to bottom press filling and washing of the cloths.

Method

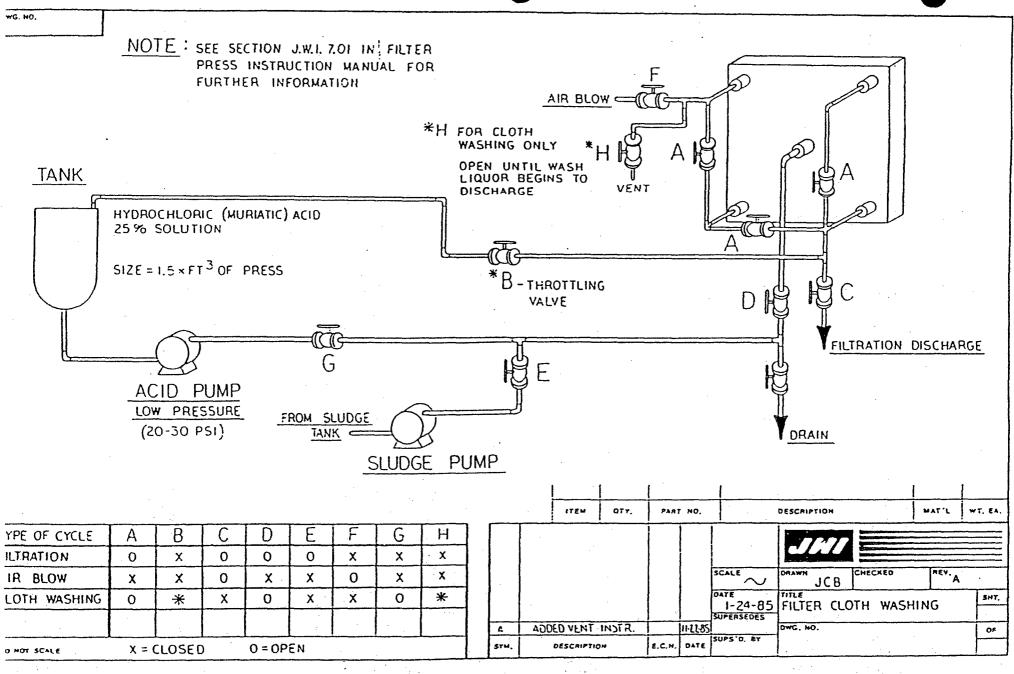
1. Clean all filter cloths of all sludge cake with nylon spatulas furnished.

- 2. Close filter press.
- 3. Disconnect center feed line from sludge pump.
- 4. Connect outlet of acid pump to center feed line to filter press.
- 5. Connect lower outlet of filter press to acid recirculation tank.
- 6. Open acid feed line to filter press.
- 7. Start acid feed pump. It will take considerable time to fill all of the chambers of the filter press before the acid will return to storage tank. Continually inspect filter press for leakage during filling and recirculating.
- 8. Allow pump to recirculate for one to two hours.
- 9. Turn off acid feed pump.
- 10. Follow air blowdown sequence in operation instructions to purge acid from filter press (use maximum 15 PSI air).
- 11. Disconnect acid feed system and reinstall sludge pump and outlet lines.
- 12. Filter press is now ready for operation.

CAUTION: Acid washing is not recommended on non-gasketed type filters unless extra precautions are taken to contain the leakage between plates.

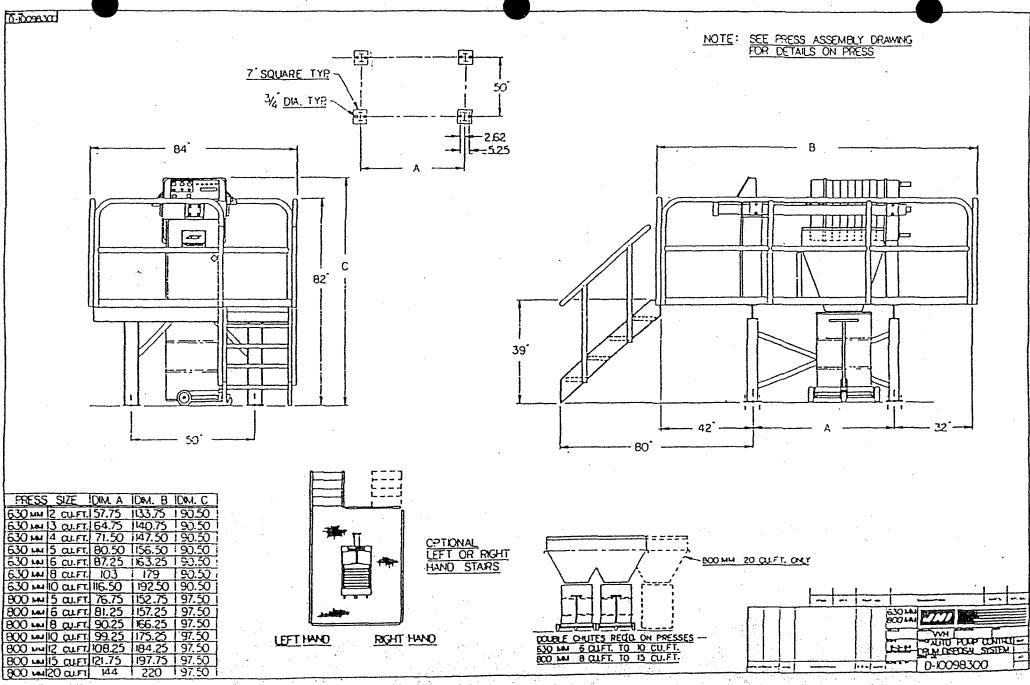
You can also acid "dip" wash the plates by immersing them in a tank of acid. The immersion method though is less efficient than thru washing in the press and will probably require at least an overnight soaking to clean out the depth of the weave. Another slight problem is that the plates are lighter than water and will float, so some method of keeping them submerged must be used.

Another method used for cloth washing is a portable high pressure (800-1200 PSI at 2-10 GPM) cold water spray unit. These units come with a hard held power ward with spray nozzle which is slowly moved over the cloths. They clean by not only flushing off the cloth surfaces but by also penetrating the cloth to flush particles out of the depth of the weave. Contact JWI Inc. for more information on availability.

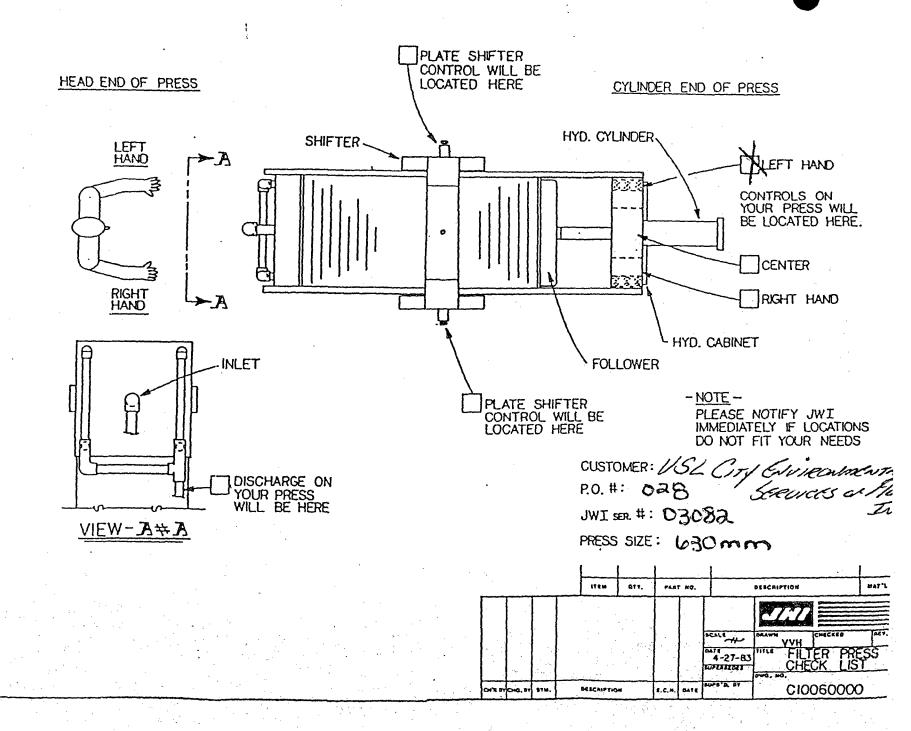


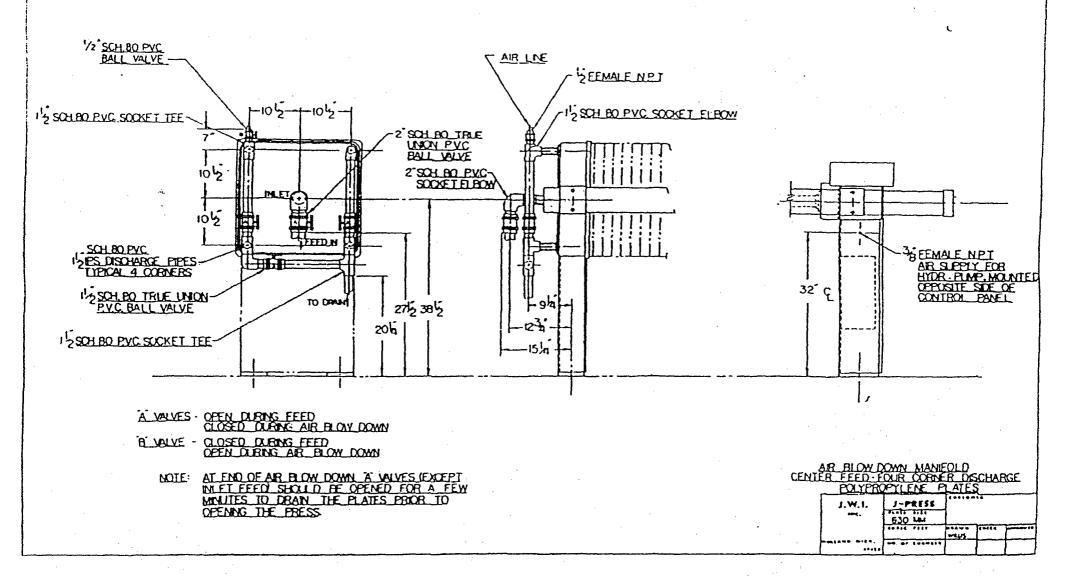
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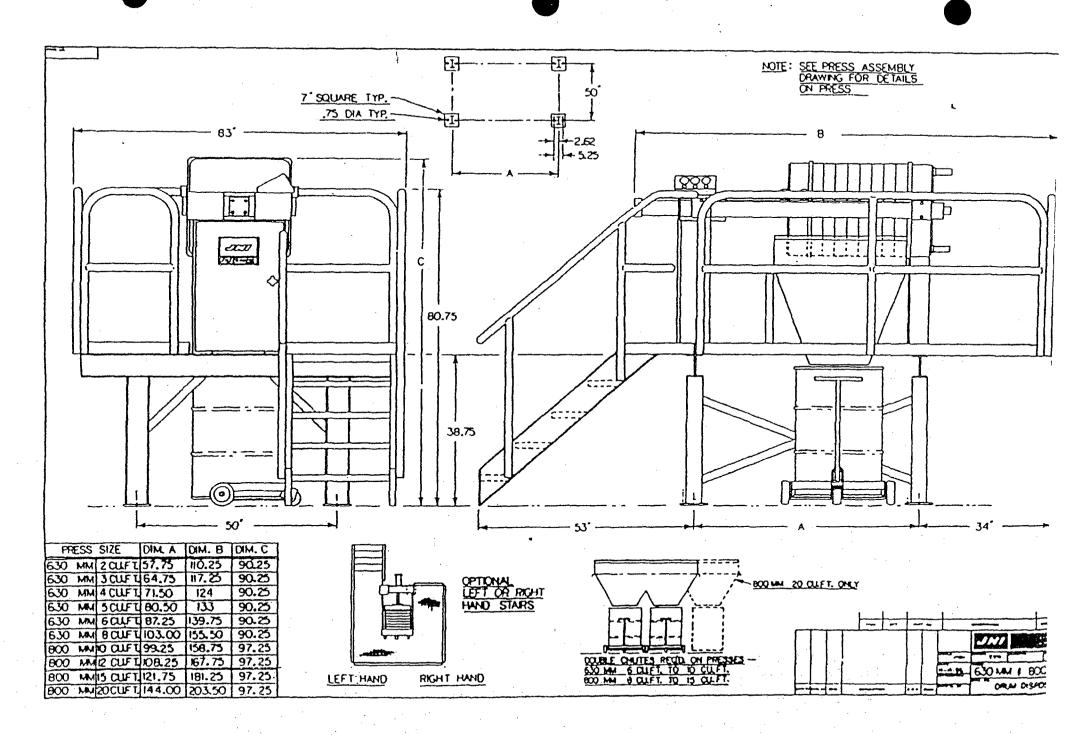
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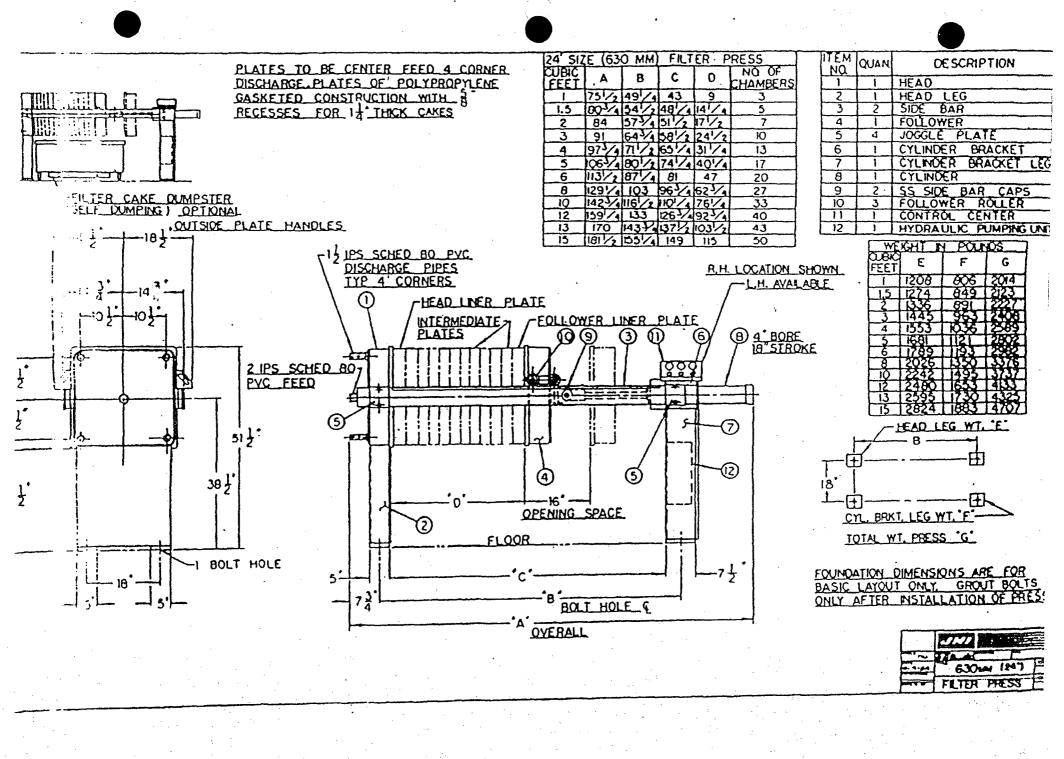


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ATTACHMENT NO.14 SOLID WASTE MANAGEMENT UNITS

EQ Florida, Inc.

Solid Waste Management Unit (SWMU) Identification Summary

		YEARS OF	WASTE	
SWMU NO.	TYPE OF UNIT	OPERATION	MANAGED	EVIDENENCE
1 (RCRA)	Container Storage Area / 5 sumps	June 1990 - Present	Permitted Wastes	None
2 (RCRA)	Loading/Unloadi ng Dock	June 1990 - Present	Permitted Wastes	None
3	Stormwater Retention Pond	June 1990 - Present	Permitted Wastes	None
4 (RCRA)	Filter Press	June 1990 - Present (currently not in use)	Non-Hazardous (one time test) batch	None
5	Municipal Waste Dumpster	June 1990 - Present	RCRA Empty Containers, Office Waste	None
6	Stormwater Carbon & Sand Filter	June 1990 - Present	Stormwater	None

Solid Waste Management Units are shown on Attachment 5.15.

ATTACHMENT NO.15 EMERGENCY AND SAFETY EQUIPMENT

EQ Florida, Inc

EMERGENCY AND SAFETY EQUIPMENT

- 1. Hand-Held blow Horns (3)
- 2. Telephones (2)
- 3. Emergency Lights (4)
- 4. Pull alarms (6)
- 5. Fire Extinguishers (6)
- 6. Emergency Exits (6)
- 7. Containment sumps (5)
- 8. Spill Kits (Acid, Alkaline, Solvent) (1 each)
- 9. Fire Hoses (3)
- 10. Safety Equipment Cabinets (2)
- 11. UV Smoke and Flame Detectors (6)
- 12. Heat Sensors (2)
- 13. LEL Sensors (2)
- 14. LEL Meter (1)
- 15. SCBA Respirator (1)
- 16. Eye Washes (2)
- 17. Safety Shower (1)
- 18. Sprinkler Systems (2)
- 19. Foam System (1)
- 20. Intrusion Alarm System (1)
- 21. Fire Alarm System (1)

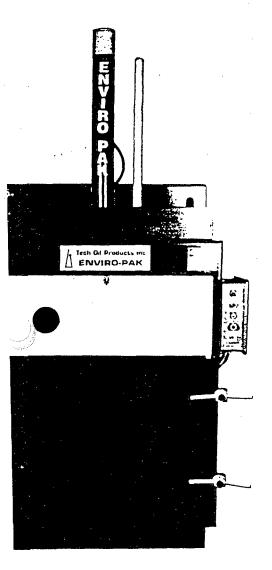
Emergency and safety equipment items are identified in Attachment 8.2

ATTACHMENT NO.16

EQUIPMENT SPECIFICATIONS

- 16.1 Drum Compactor
- 16.2 Aerosol Recycling Unit
- 16.3 Paint Can Crushers
- 16.4 Left Intentionally Blank
- 16.5 Warehouse Floor Coatings

Tazardous Waste Compactor Model 4000 HM



sposal of ntaminated rags, int filters and orsweep as well many other aminated items.

ENVIRO-PAK® has become a leader in the compacting

industry by supplying innovative and durable compactors since 1980. We have a commitment to quality and reliability in all of our compaction equipment. This commitment to quality is now seen in the Model 4000 HM HazMat Compactor. It is designed to compact hazardous waste inside a DOT approved HazMax box. The HazMax box is positioned on a pallet for easy loading and unloading.

Depend on ENVIRO-PAK® for economical, reliable solutions to your hazardous and non-hazardous waste disposal problems.

Model 4000 HM

- Compacts inside a DOT approved HazMax box or disposable polypropylene or polyethylene bag.
- ► Removable pallet for ease of handling with a forklift.
- Specially designed load doors for easy loading and unloading.
- ➤ Compaction is from bottom up using 44" of stroke and 60,000 lbs. of force ensuring maximum compaction ratio.

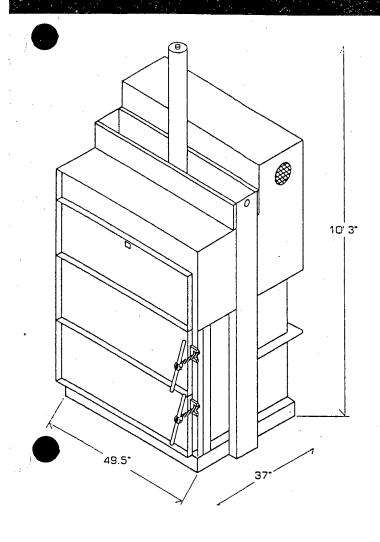
Safety Features

- Maximum operator protection is accomplished by use of safety switches.
- Meets OSHA, NEC, ANSI, NFPA, USCG and MMS standards.
- Optional explosion relief door.

ENVIRO-PAK® Quality

- Designed to operate in harsh conditions.
- Heavy duty construction.
- Optional automatic push button operation.
- Optional sandblasting and zinc coating.
- ► Made in the United States of America.

MOCE 4000 TWEET Compactor



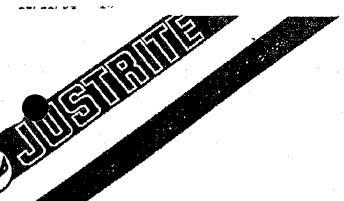
From ENVIRO-PAK® Compactors...

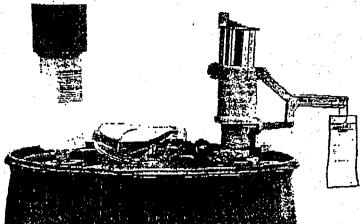
A Smashing Success Since 1980!

Compaction Chamber Height		38"x38"x40"H 10'3"		
Depth		37"		
Weight		3200 lbs.		
Stroke		44"		
Compaction Force		20-60,000 lbs.		
Cycle Time	· · · · · · · · · · · · · · · · · · ·	60 seconds		
Electric		5 HP 3 Ph		
		240/480 VAC		

APPLICATIONS:

- ► Military Installations
- ► Nuclear Power Plants
- ► Government Applications
- ► Industrial Facilities
- ► Shipping Lines
- ► Electronics Manufacturers
- ► Aircraft Repair Facilities
- ► Hospitals





Aerosolv®

Aerosol Can Disposal System

- ◆ Comply with EPA regulations 40CFR261.23(a)(6)
- Minimize your waste system

- Simplify waste handling
- Increase recycling

Aerosolv provides a solution to the expense of solid waste disposal of aerosol cans. RCRA regulations require that, unless relieved of pressure, aerosol cans must be packed in a drum and manifested for solid hazardous waste disposal. A drum holds 96 cans and costs as much as \$1,500 for proper transportation and disposal. With Aerosolv, the cans are not solid hazardous waste, but are fully recyclable. For every 100 cans punctured, you will increase your recycled scrap metal by 25 lbs. and reduce solid waste by 10 cu.ft. Residual liquids, released by Aerosolv and collected in a drum, may be eligible for reclamation or recycling through a waste handler, resulting in "waste minimization credits." A 55 gallon drum will collect the contents of over 4,000 spent aerosols.

CONVENIENCE

- Acrosolv is lightweight and portable; weighs 5 pounds.

 Threads directly to the 2" bung of any standard drum.
- · Collects residual contents directly into drum.
- · Does not require a power source. Easily operated by hand.
- · Increases recycling and waste minimization.
- Accommodates aerosol cans in a wide assertment of shapes and sizes. Standard unit accepts 200 series cans, deluxe unit also accommodates larger 300 series and smaller 6 oz. cans.

SAFETY

- Aerosolv is designed to probibit unsafe usage, will not puncture serosol cans inserted "right side up."
- Anti-Static Wire (OSHA required) enhances operational safety.
- With the press of the handle, the puncture pin pierces the can.
 Aerosolv leaves no sharp edges or crushed metal. The only effect is a small, smooth-edged hole.

COMBINATION FILTER

- Threads directly into the 3/4" bung of any standard drum.
 Effective in filtering and collecting V.O.C.'s.
- The unique Aerosolv combination Filter comprises a coalescing lower portion, which removes airborne organic compounds, and an activated carbon upper portion, which absorbs odor.
- Rain Hood on filter provides protection from elements for outdoor use.

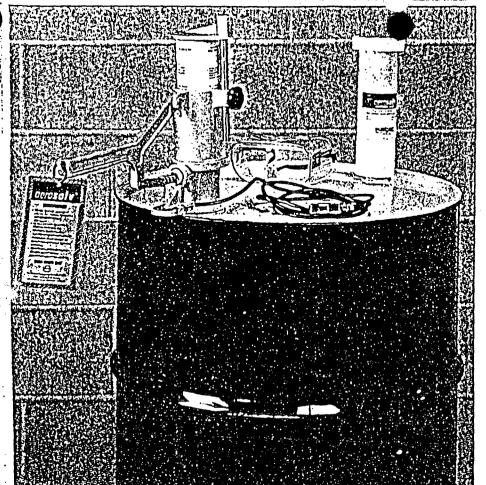
CONSTRUCTION

- Made of aircraft aluminum, requiring no maintenance.
- All moving parts of 308 stainless steel.
- Puncture pin is carbide-tipped and c-ring scaled to prevent leakage. Greese packing lubricates puncture pin with each use.
- Carbide-tipped puncture pin will withstand repeated, long term use, with no visible wear after puncturing 10,000 serosol cans.

Model		Pk.	WL	
No	_ Description	On.	Lbs.	Dimensions
28196	Disposal system, comprised of puncturing unit,			
	coalescing/carbon filter, anti-static wire, goggles			Box size:
	(for 200 series cans)	1	. 7	18 x 18 x 6
28202	Disposal system deluxe, comprised of puncturing unit			
	with plastic sleeve, coaleacing/carbon filter, anti-static			Box size:
	wire, goggies (for series 200, 300 & 60z. size cans)	1	8	18 x 18 x 6
28197	Combination chalescing/carbon filter	1	2	1414 tall
28198	Activated cathon cartridge	2	4	6 ¹¹

LAB SAFETY

A Division of Science Related Motoriels, inc. P.O. Box 1368
Laneaville, WI 53547-1358
Call Toll Free 1-300-356-0783
1-608-754-2345 7alex 010-298-2021



Aerosolv™ Can Depressurizer Remove the Pressure and Residual Solvents for Recycling of Aerosol Cans

Easy-to-use system relieves pressure in empty aerosol spray cans. Requires no special training. No external power source is needed. Enhances your recycling efforts by allowing residual solvents to be collected and recycled, and empty, depressurized cans to be recycled as scrap metal rather than as regulated hazardous waste.

Specifications: Threads directly onto the 2" bung of a 55-gallon drum. Simply insert an inverted aerosol can and tighten the sliding plate to engage the can. When the handle is pressed, a puncture pin pierces

the spray end of the can. Residual contents are safely collected in the drum. For added safety, a Combination Filter is installed on the ¾" bung to reduce flammable V.O.C. emissions. The lower portion of the filter removes airborne liquid and the activated carbon upper portion absorbs vapor. Complete Package also includes grounding wire and safety goggles. Complete instructions included. Made of D-712 Grade Aircraft Aluminum. All parts are 308 Stainless Steel.

Compliance: 40 CFR 261.7 (b)(1), 40 CFR 261.7 (b)(1)(B)(2) and 40 CFR 261.23 (a)(6).



AEROSOLGAN GRUSHER

SUPERSIO

New Control System, Cooling System and Safety Interlocks!
Automatic Can Feeding Now Available!

- The *NEW Super 800* has an air/hydraulic logic control system with fewer parts, improved dependability!
- A **NEW** forced air oil cooling system allows continuous high speed operation.
- **NEW**interlocked motors allow usher to operate only when the blower is operating.
- **NEW** crushed can ejection to rear makes automatic can feed available.

Air Filtration & Carbon Filtration/Collection

The TeeMark Super 800 moves up to 500 cubic feet of air per minute through its particulate filtration system. The air and gases are then delivered to a 5-inch duct to be dealt with in accordance with local codes. TeeMark offers an *optional carbon filtration/collection system* that has proven to be an economical method for capturing VOCs and other gases whose release to the atmosphere may be prohibited.



Reduce Volume, Recycle!

The Super 800 will crush a standard 8-inch aerosol can down to 1/2-inch. This typically leaves only 1% of residue in the can!



9 cans, before and after

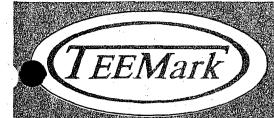


For more information, call us:

Toll Free: 800 / 428-9900

Aitkin, Minnesota 56431
FAX 218/927-2333
e-mail: teemark@aitkin.com
Homepage with Super 800 Video:
www.teemarkcorp.com

From half pints to 110 gailens, TeeMark Can and Drum Crushers prepare containers and their contents for recycling or disposal.



AEROSOL CAN CRUSHER

SULERION

The Super 800 is an aerosol can crusher that automatically opens, empties, crushes and ejects 800 aerosol cans per hour.

The Super 800:

incorporates a blower that pulls VOCs and propellents from the crushing compartment, crushed aerosol can collection drum and liquid collection drum. This provides a permanent, total enclosure of the can contents.

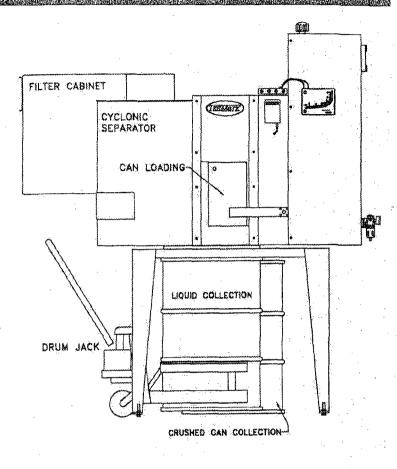
Provides an automatic processing cycle that is activated when the operator inserts the can and closes the door. These steps can also be automated and auto feed of cans is available.

Processes many different aerosol can sizes with a wide range of can contents. Also andles small paint cans.

Removes and captures 99% of can contents.

Separates liquid can content from propellants, VOCs and other gaseous components

Utilizes explosion proof piercing and crushing systems that have proven themselves on millions of paint cans and pails.



Explosion Proof!

The Super 800 has an explosion proof motor, blower and electrical controls. Class 1, Div. 1 & 2, Grp D.

SPECIFICATIONS

Crushing Force: 12,000 lbs.

Operating Cycle Time: 4.5 seconds

Crushing Chamber: Handles cans from 4 to 12-inches long and 1½ to 3-inches in diameter

Dimensions: 95 in. high, 70 in. wide, 65 in. deep.

Shipping Weight: 1,800 lbs.

ELECTRICAL REQUIREMENTS:

The Super 800 uses three 230/460 three phase motors. These motors are powered by a 20/10 FLA three phase electrical service. Motor starters for the individual motors are included.

AIR REQUIREMENTS: 8 cfm @ 80-90 psi - oiler, dryer and regulator provided.

Warranty: ONE YEAR ON ALL MATERIALS AND WORKMANSHIP

10/03

TEEMARK CORPORATION • Aitkin, Minnesota 56431

800 / 428-9900 • FAX 218 / 927-2333

e-mail: teemark@aitkin.com • Crusher Homepage: www.teemarkcorp.com





CORPORATION_

1132 Air Park Dr. Aitkin, MN 56431 218-927-2200 800-428-9900 FAX 218-927-2333 Email: teemark@aitkin.com

TEEMARK CORPORATION

Model SUPER-800

EXPLOSION PROOF AEROSOL CAN CRUSHER

CARE & USE INSTRUCTIONS

SERIAL NO.	2064)
DATE MFG.	

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TEEMARK CORPORATION

WARRANTY

TeeMark manufactured products are warranted free of original defects in material and workmanship for a period of one year from the date of shipment to first user.

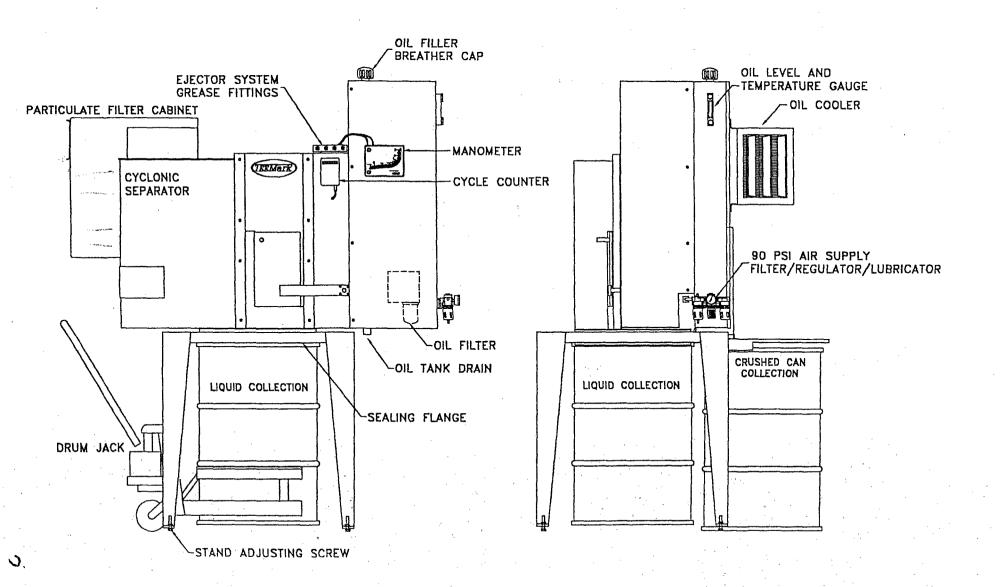
TeeMark's obligation is to repair or replace free of charge any part that its inspection shows to be defective. Except as it may otherwise specifically agree in writing, TeeMark shall not be liable for transportation, labor or other charges for adjustments, repairs, replacement parts, or other work which may be done upon or in connection with such products. TeeMark shall not be liable for loss of time, manufacturing costs, removal and installation costs, loss of profits, consequential damages, direct or indirect, because of defective products, whether due to rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Written permission for any warranty claim repair or return must be first obtained from authorized TeeMark personnel. Any part or parts of a product to be repaired or replaced under this warranty must be returned to the factory f.o.b.

Any modification to any TeeMark product without TeeMark's prior approval and consent, is at the user's sole risk and responsibility. TeeMark disclaims any and all liability, obligation, or responsibility for the modified product and for any claims, demands, or causes of action for damage or for personal injuries resulting from the modification and/or use of such a modified TeeMark product.

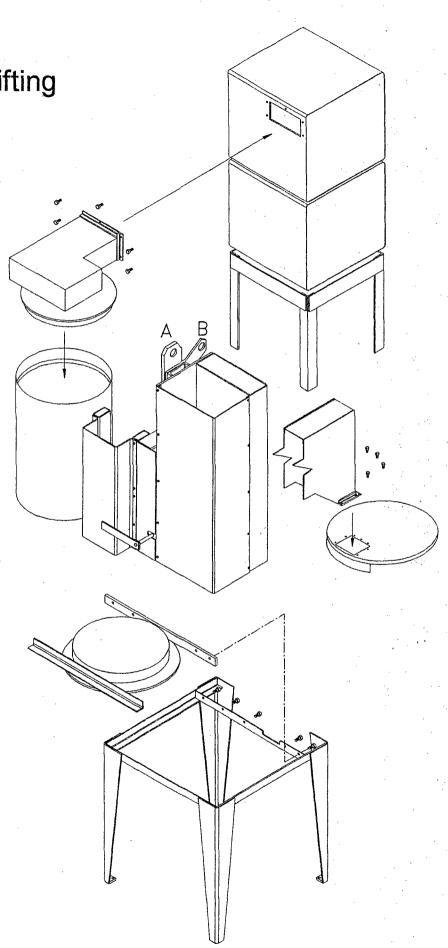
THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(This warranty voids all previous issues.) (Effective Date: January 1, 1996)



Use lift point A for lifting machine only

Use lift point B for lifting fully assembled machine with filter cabinets attached



SUPER 800 / 450 ASSEMBLY INSTRUCTIONS

Tools required are two (2) 9/16-inch wrenches, two (2) ½ inch wrenches, one (1) 7/16-inch wrench, Level, Hammer, Pry Bar, Small Clevis, Small Chain, and a Fork Lift or Overhead Crane. The machine weights approximately 2300 pounds.

You will need approximately 8 feet of overhead clearance to place the machine on the stand.

See exploded view of machine for assembly.

Dismantle crates and remove all the bolts fastening the Machine and components to the crate.

Remove the Stand from the crate and position it in your chosen location. Note the front of the Stand has a flush cross member, back is recessed. Be sure to leave sufficient room around the stand to maneuver the Drum Jack and Drums. The Stand is equipped with leveling bolts and holes in the pads for anchoring. The machine is somewhat top heavy, anchoring is recommended. Once the stand is level check for Drum clearance under the stand, it should measure 35 ½-inches to the bottom of the cross member.

Using the clevis and chain, attach them to lift eye "A". Pick up the machine and lower it on to the stand with the door facing the front of the Stand. Secure the machine to the stand using the 3/8-16x1 1/4 bolts provided; five across the back, and two in front.

Attach the Vapor Collection Bonnet to the bottom of the discharge chute using the seven (7) 5/16-18x1 1/4 Bolts, nuts, and washers.

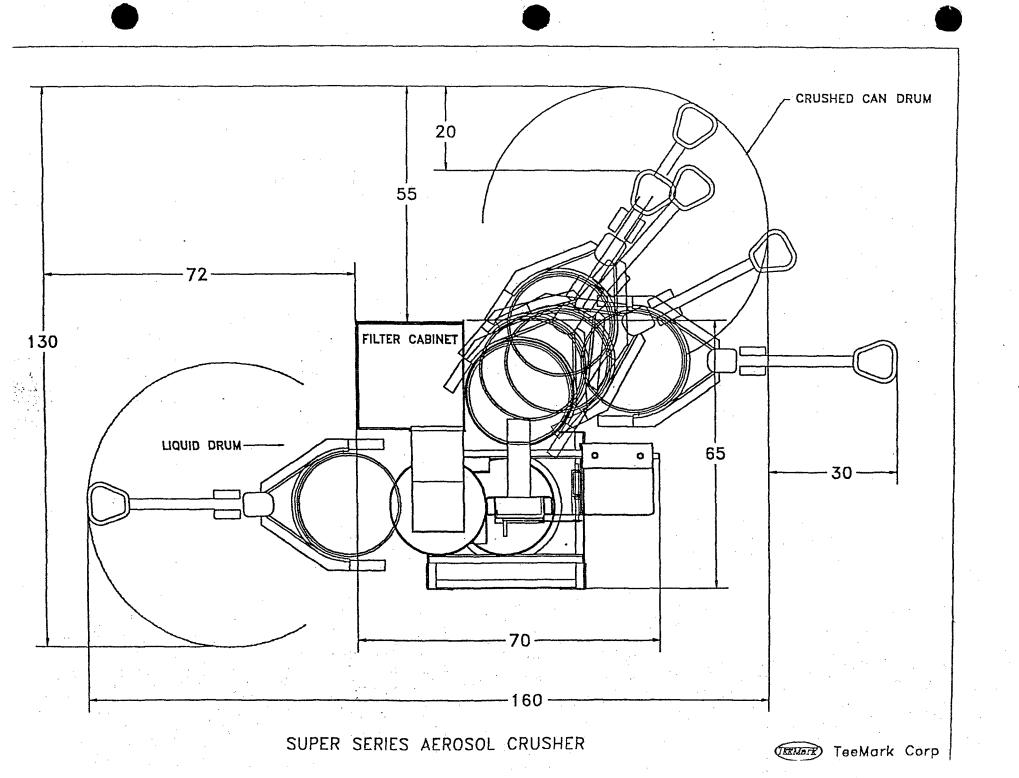
If your machine is equipped with the optional Carbon Filtration Cabinet, you will need to attach the assembled Filter Cabinet, Carbon Cabinet, and top of Cyclonic Seperator to the machine (refer to assembly diagram). After attaching, level the Carbon Filtration Cabinet Legs with adjustment screws. The legs should support the weight of the entire cabinet.

Have an Electrician complete the wiring of the machine in accordance with local codes. Machines equipped with the optional Carbon Filtration System require the wiring connected to the Blower motor. Wiring Diagrams are included in the Care & Use Manual. Check all poured fittings to be sure they are completed.

Connect Air Supply to the FRL, DO NOT exceed 90 psi.

After the machine is completely assembled and wired, you will need to adjust the Manometer, see instruction in the C & U Manual.

See Initial Operation Instructions in this Manual.





WARNING



EXPLOSION HAZARD

All TeeMark explosion proof can and drum crushers are manufactured in accordance with the National Electrical Code for Class 1 Group D hazardous locations.

It is the responsibility of the end user to properly install and operate the crusher in compliance with all local and national electrical codes for hazardous locations.

THIS MEANS

All sources of ignition must be <u>a safe distance away</u> from the crusher while it is being operated.

(as determined by your insurance underwriter)

Sources of ignition include:

All forklift trucks. Propane, gas and electric powered.

All air compressors

Any motor control equipment not rated for Hazardous

Locations. (Class 1 Group D)

Any electrical equipment such as radios, tape players etc.

EXPLOSION PROOF AEROSOL CAN CRUSHER

Model SUPER-800

The TeeMark SUPER-800 Aerosol Can Crusher is designed to process 800 aerosol cans per hour. The liquid contents of the cans are typically collected in a 55-gallon drum. The crushed cans are collected in a second 55-gallon drum and can be recycled. The propellants and VOCs are collected and vented by means of a centrifugal blower system. All systems have been thoroughly tested before leaving the factory.

SAFETY FEATURES

The SUPER-800 is equipped with a safety interlock system that is linked to the Crushing Chamber door. The interlock system prevents operator injury by stopping all functions of the machine in the event that the crushing chamber door is opened during the crushing process.

In addition, the Hydraulic Motor and Oil Cooler motor are interlock with the Blower motor, if for any reason the Blower motor should experience low voltage or lose of voltage, all motor will stop.

AIR HANDLING SYSTEM FEATURES

The SUPER-800 is designed to vent VOCs and propellants from the crushing chamber and the two collection drums. A 24 x 24 bag filter housed within the filtration cabinet filters particulates from the air stream. A pressure drop indicator (Manometer) is provided to monitor filter condition. Filter should be changed when indicator rises to 0.10 gauge reading on the Manometer. A centrifugal pressure blower will provide up to 500 CFM of particulate free air to be handled in accordance with local regulations.

ELECTRICAL CONNECTION

The explosion proof motor, motor controls, and connections on your **SUPER-800** are UL listed and CSA certified for Class 1, Group D, Hazardous locations. It is up to the purchaser to make final connections in compliance with local and national electrical codes for Class 1, Group D, Hazardous locations.

A 5 hp, 230/460 VAC, 13/6.5 FLA (full load amps), 3 phase motor powers the Crusher Hydraulic System.

A 1 hp, 230/460 VAC 3.6/1.8 FLA 3 phase motor powers the Air Exhaust System.

A ¼ hp, 230/460 VAC 1.3/.65 FLA 3 phase motor powers the Hydraulic Oil Cooler Fan. 9/30/03

If your Crusher is equipped with an Optional Carbon Filtration Package, wiring to the Blower must be completed during field installation. The necessary wire, conduit, and conduit fittings are supplied. Please refer to wiring diagram for proper connections. See following page for Conduit Sealing instructions.

AIR REQUIREMENTS

The **SUPER-800** uses less than 4 CFM and requires a maximum air pressure of **90 psi.** All Crushers are equipped with a Filter/Regulator/Lubricator (FRL). The pressure of the FRL must be set at **90 psi** to insure proper machine performance.

HYDRAULIC FLUID

The hydraulic reservoir must be kept full to a level that is visible in the temperature/sight gauge throughout the complete ram cycle. Use a premium grade antiwear hydraulic oil, **150 viscosity grade 32** (e.g. Mobile #DTE24 or equal). This is the same antiwear hydraulic fluid that is typically used in farm tractors and dump trucks. It should be available at most auto or farm supply stores. Total fluid capacity is approximately 20 US gallons.

OIL FILTER

A High Pressure, High performance 10 micron (absolute) oil filter is standard on all TeeMark Crushers. It should be changed after every 500 hours of operation.

OIL FILTER OPTIONS		
PART NUMBER	BRAND NAME	
P164375	DONALDSON	
1455	NAPA	
HF 717	HASTING	

VALVE SETTINGS

All Hydraulic and Pneumatic Valve Components have been preset at the factory for optimum performance. DO NOT RE-ADJUST ANY VALVE SETTINGS WITHOUT FIRST CONSULTING THE MANUFACTURER. (TeeMark Corp)

CONDUIT SEALING

SEALING CEMENT

DIRECTIONS: Separate each conductor and pack the fiber filler (disposable shop towels work nicely) tightly around and between each conductor at the sealing fitting hub. Conductors must not touch one another nor touch the sealing fitting wall. Shake the sealing cement container thoroughly in all directions to overcome powder segregation before each use. Add 7 ¾ oz. of water to 1lb. of cement (equivalent to 1 part water to 2 parts cement by volume). Stir thoroughly for a minimum of 5 minutes or until an even pouring consistency is obtained. Pour compound into the sealing fitting per instructions provided with the sealing fitting.

SEALING INSTRUCTIONS

VERTICAL SEALS: When sealing vertical conduits, follow above directions. Compound is poured through the small pipe plug opening above the cover or pipe plug.

HORIZONTAL SEALS: For horizontal sealing remove both threaded plugs from EYS. Follow above directions, and pour the compound through the large opening. Replace plugs and screw into body.

CAUTIONS

Sealing compound to be mixed ONLY at temperatures above 35° F/2° C and ONLY poured into fittings that have been brought to a temperature above 35° F/2° C. Seals must not be exposed to temperatures below 35° F/2° C for at least 8 hours. Compound MUST be allowed 8 hours to cure to full strength before energizing system.

If any batch of compound starts to set before pouring *DO NOT* try to thin by adding water or stirring. This will spoil seals. Discard the batch and make a new one.

OPERATING INSTRUCTIONS

START UP PROCEDURE

Make certain that all necessary <u>electrical and air connections</u> are made before proceeding.

INITIAL WARMUP

IT IS RECOMMENDED THAT ALL CRUSHERS RUN IDLE FOR 5-10 MINUTES TO ALLOW THE HYRAULIC OIL TO REACH OPERATING TEMPURATURE. THIS IS ESPECIALLY IMPORTANT WHEN AMBIENT TEMPURATURE IS BELOW 65' F

- 1. Position an empty 55-gallon drum under the Sealing Flange just below the Crushing Chamber using the Drum Jack that is supplied with the crusher. Raise the drum until it contacts the sealing flange. DO NOT LIFT THE DRUM PAST THE POINT OF CONTACT WITH THE SEALING FLANGE, THIS COULD CAUSE DAMAGE TO THE CRUSHER.
- 2. Place a second 55-gallon drum, to receive the crushed cans beneath the vapor collection bonnet.
- 3. Start Blower motor by pulling out the red **BLOWER** stop button.

BLOWER MUST RUN AT ALL TIMES WHILE LIQUID CONTENTS ARE PRESENT IN COLLECTION DRUMS AND CRUSHING CHAMBER.

- 4. Open the Crushing Chamber door.
- 5. Start Crusher motor by pulling out the red CRUSHER stop button.
- 6. Place an Aerosol can into the Crushing Chamber in an upright position, centered over the piercer opening.
- 7. Close the Crushing Chamber door and the crushing cycle will begin automatically. When the can has been emptied and crushed the can will automatically be ejected into the Can Collection drum
- **8.** When the crushing cycle is complete the door will open automatically and the crusher is ready for the next crushing cycle.

RETRACTING CYLINDER/SQUEEZE HEAD

- 1. On the front of the machine below the Door Shaft is a button marked **Cylinder Retract**.
- 2. With the Hydraulic Motor running, Air Supply turned on, and the Door open.
- 3. Push in and hold the button, close door. Hold button in until cycle ends and the door opens.

*** CAUTION ***

ALWAYS TURN THE POWER OFF WHEN SERVICING THE CRUSHER OR WHEN NOT IN USE.

RECOMMENDED PERIODIC MAINTENANCE

- 1) Change the hydraulic oil filter element every 500 hours after that; more often if your system is in an extremely dirty atmosphere.
- 2) Change the hydraulic oil completely every 5000 hours or 5 years of operation, which ever comes first.
- 3) Change air particulate filter when the pressure drop indicator reaches .01 on the Manometer scale.
- 4) It is recommended that the piercer be sharpened periodically to prevent undue pressure buildup inside the cans
- 5) Remember your machine is only as good as your maintenance.

MINOR TROUBLE SHOOTING

Noisy Pump

- 1) Suction line is blocked. Disassemble and clean.
- 2) Air entering suction side of pump. Check the pump to tank connections and oil level.
- 3) Low oil level.
- 4) Pump badly worn, loose parts in pump case.
- 5) Suction line restricted.
- 6) Pump unloader valve is adjusted too low.

Lack of System Pressure

- 1) Bad pump.
- 2) Air system malfunction.
- 3) Coupling between pump and motor separated.
- 4) Line breakage.
- 5) Low hydraulic fluid level.

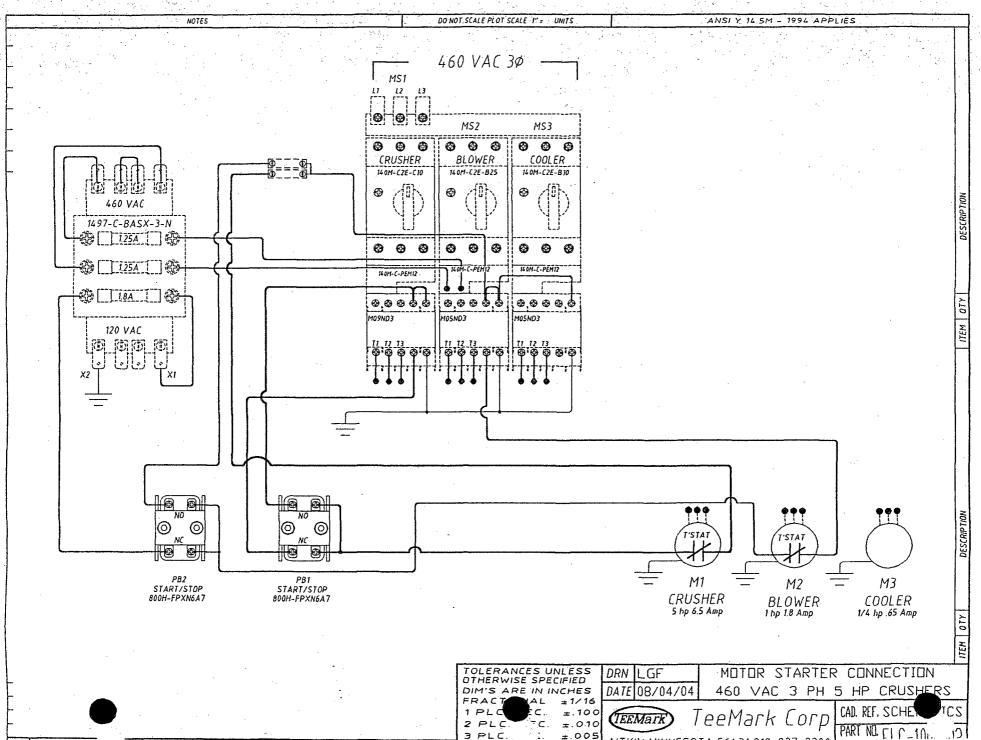
Pump Not Delivering Oil

- 1) Blocked suction.
- 2) Air leak in suction line causing pump to lose prime.
- 3) Pump rotation in wrong direction; should be clockwise as viewed from the fan end of the motor.
- 4) Low hydraulic fluid level.

Erratic Motion in Cylinder

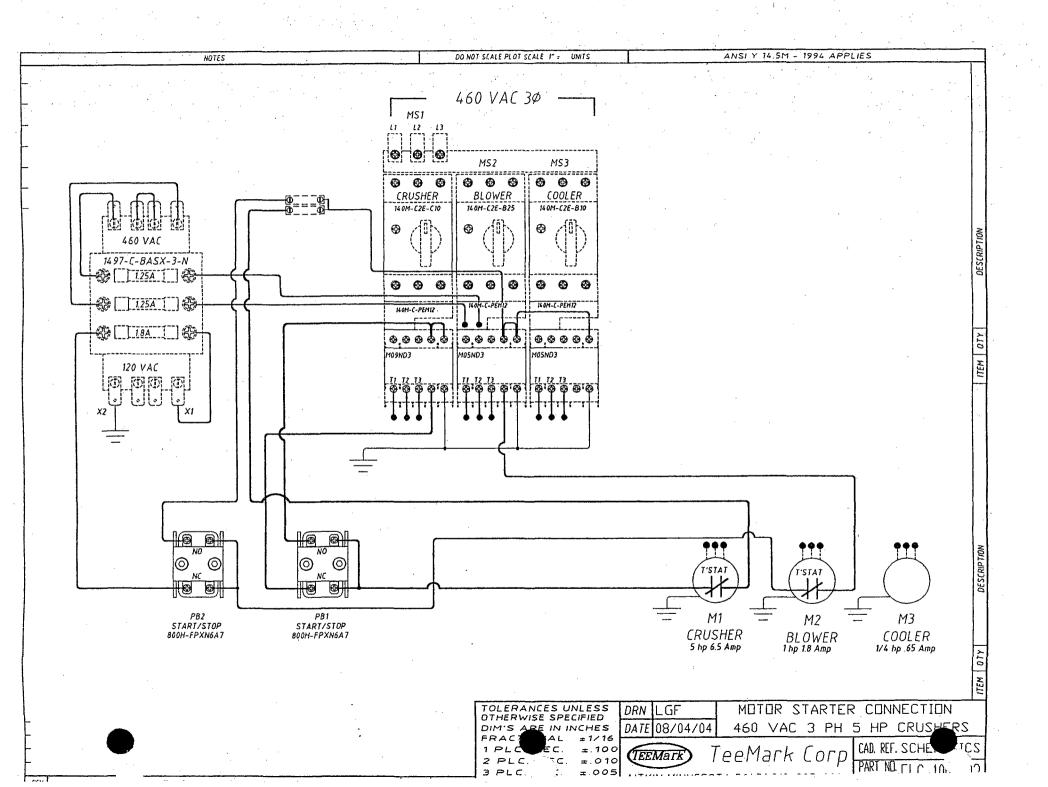
- 1) Air entrapped in oil due to excessive agitation. Oil will be cloudy in appearance.
- 2) Improper valve adjustment.

Reservoir Temperature Excessive (Over 170° F.) Call the factory

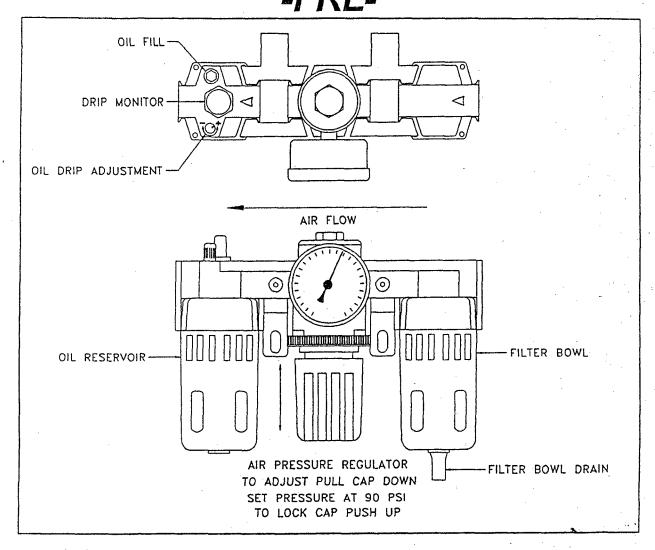


REV

DESCRIPTION



MAINTAINING THE FILTER / REGULATOR / LUBRICATOR -FRL-



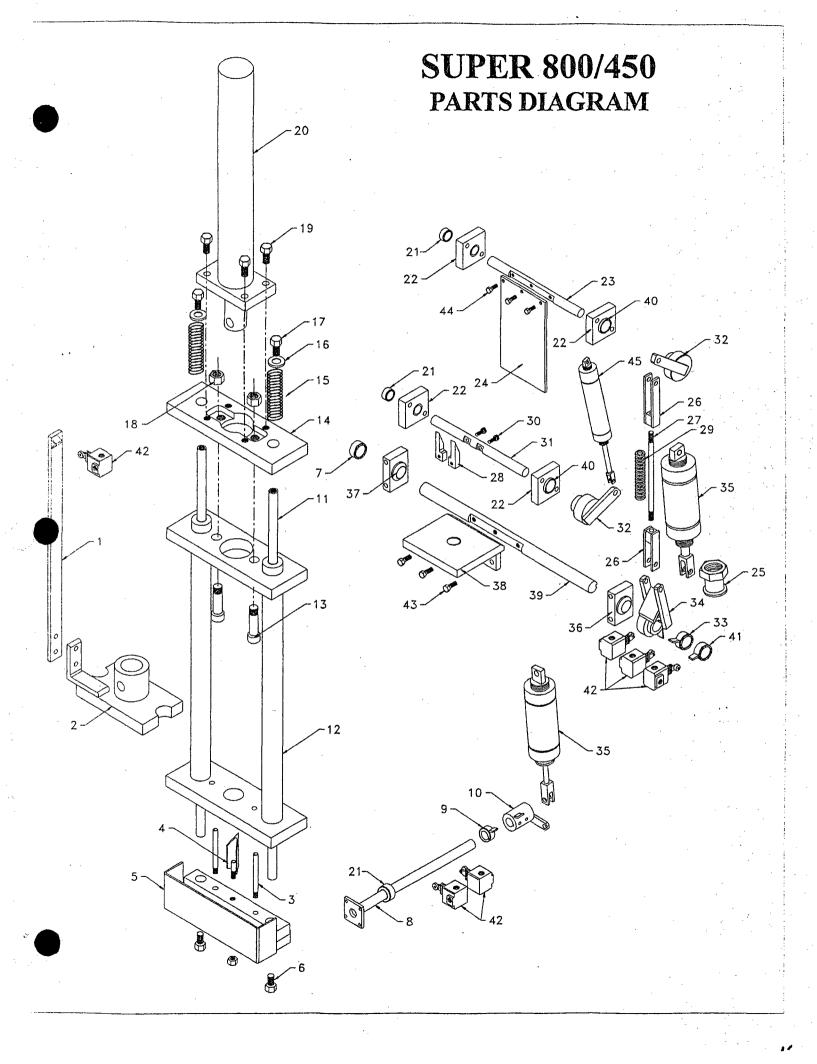
The FRL is an air preparation device. Its purpose is to supply the crushers' pneumatic system with clean, lubricated air at a consistent pressure.

The Filter Bowl should be checked and drained regularly and cleaned periodically with warm soapy water.

DO NOT USE SOLVENT BASED PRODUCTS WHEN CLEANING THE FILTER BOWL

The air pressure is set by the Air Pressure Regulator located between the two bowls, directly below the Air Pressure Gauge. The operating pressure at the gauge should be set at 90 psi.

The lubrication end of the FRL consists of an Oil Reservoir, Oil Fill Cap, Drip Monitor and Drip Adjustment Knob. The reservoir should be filled with an ISO-VG-32 Air Tool Oil. The Oil Drip should be set at one drop for every 30-40 crushing cycles.



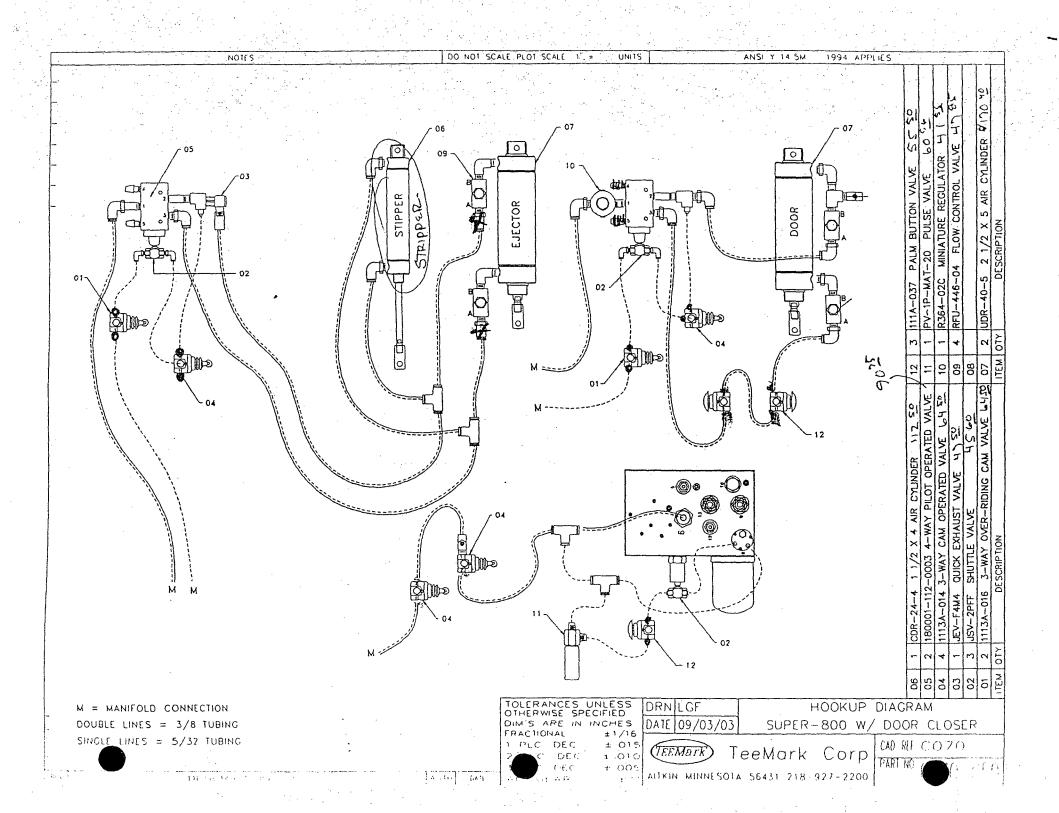
Mechanical Parts List Super 800/450 9/12/03

		Part number	Description
1		C070-022	Flag
2		C070-021	Squeeze Head
3		C070-023	Guide Pins
4	1	C070-024-001	Piercer (Ig)
	1	C070-024-002	Piercer (sm)
5	1	C070-025	Piercer Carriage
6	2	1/2-13X1 1/2	Piercer Carriage Bolt
7	. 1	CLC-100	1-inch ID Stop Collar
8	1	C070-016-R1	Door Shaft
9	1	C070-026-001	Cam-Door Shaft
10	- 1	C051-012	Door Shaft Lever
11	2	C070-027-002	Piercer Connecting Rod
12		C070-027-001	Main Frame
13		1-14X6	Socket Head Cap Screws
14		C070-006	Cylinder Connecting Plate
15		SPR75-150	Return Spring
16	2		1/2-inch Flat Washer
17		1/2X1 1/2 Drilled	Connecting Rod Bolts
18		1-14 Nut	1/14 locking nuts
19		1/2X1 1/2	Cylinder Mounting Bolts
20		MPH4012FT	4-inch Hydraulic Cylinder
21		CLC-75	Stop Collar
22	~~~~	C028-050-R1	Bearing Housing Rear Door
23		C070-014-001	Rear Door Shaft
24		C070-014-002	Rear Door
25		C070-032	Door Stop
26		C028-100B	Clevis
27		C070-028	Linkage Rod
28		C070-010-002	Stripper
29		9623K7	Ejector Linkage Spring
30		5/16X1 1/2 Bolt	Stripper Bolt
31		C070-010-001	Stripper Shaft
32		C028-046-R2	Rear Door Actuator Arm
33		C070-026-003	Door Actuator Cam
34		C028-045-R2	Ejector Actuator Arm
35		2500 DV5	Pneumatic Cylinder
36		C028-051	Bearing Housing-Ejector
37		GEZ 25 ES	Spherical Bearings
38		C070-029-001	Ejector Plate Large Hole
- 30		C070-029-001	Ejector Plate Small Hole
39		C070-029-003	
40		FF1011	Ejector Shaft
41		C070-026-002	Flanged Bushing
42			Ejector Interlock Cam
43	0	C070-050	Pneumatic Schematic
		5/16X1 1/2 Bolt	Ejector Plate Bolts
44		5/16x3/4	Rear Door Mounting Bolts
45	1	CAR-24-4	Pneumatic Cylinder

Mechanical Parts List Super 800/450 9/12/03

P	ad	e	2

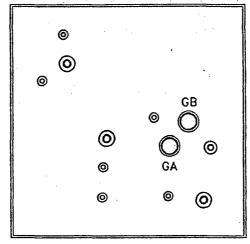
Item #	Quantity	Part number	Description
46	1	10FJX-28	Cylinder Hose Top 28"
47	1	10FJX-38	Cylinder Hose Bottom 38"
48	1	20 GMV-26	Pump Suction Hose 26"
49	1	10FJX-19	Pump Pressure Line 19"
	1	B250-784	Hydraulic Pump 22 gpm (S800)
		B250-768	Hydraulic Pump 11 gpm (S450)
	1	VL5024A	1 1/2 hp Electric Motor (S450)
	1	VM7044T	5hp Electric Motor (S800)
	1	L4003A	Oil Cooler Motor
		M6002A	3ph Oil Cooler Motor
	1	VL5009A	Blower Motor
		VM7013	3ph Blower Motor
	1	440-605	Particulate Filter
	1	660552001-	4-inch Cylinder Repair Kit
	1	C070-011-001	Front Cover
	1	C070-012-001	Back Cover
	1	C070-030	Rear Chute
	1	C070-031	Front Door
	1		Manometer
	1	V-6029	Pump Adaptor (S450)
		V-1960	Pump Adaptor (S800
	1	PT2-SM	Cycle Counter



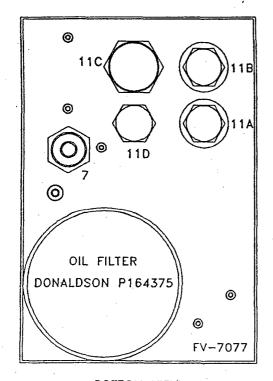
Pneumatic Parts List, Super 800, 400 9/4/03

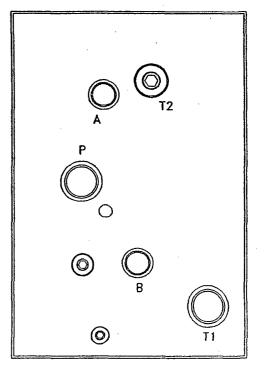
Item#	Qty.	Part Number	Description
	1 2	1113A-016	3-way Over-Riding Cam Valve
		JSV-2PFF	Shuttle Valve
	3 1	JEV-F4M4	Quick Exhaust Valve
	4 4	113A-014	3-way Cam Operated Valve
	5 2	180001-112-0003	4-way Pilot Operated Valve
	6 1	CDR-24-4	1 1/2x4 Air Cylinder
	7 2	UDR-40-5	2 1/2x5 Air Cylinder
	В		
	9 4	RFU-446-04	Flow Control Valve
-10) 1	R364-02C	Miniature Regulator
· 1·	1 1	PV-1P-MAT-20	Pulse Valve
1:	2 3	111A-037	Palm Button Valve
1:	3 12	14-3/8 QDE	1/4npt-3/8 Quick Disc Elbow
14	4 7	C6510-06-04	1/4npt-3/8 Quick Disc
1:	5 1	UPC3000-03CG	Combination Regulator
16	3 1	M20-250-4	Manifold
17	7 1	6GD07	3/8 Exhaust Ball Valve
18	3		3/8 Quick Disc Tee
19	9	C6540-53-00	5/32 Quick Disc Tee
20)	C6463-53-04	1/4npt-5/32 Quick Disc
2.		C6510-53-02	5/32 Quick Disc
22	2	C6520-53-02	1/8npt-5/32 Quick Disc
23	3	UCI-SMB-2	1/4npt Muffler
24	1 1	UPC3000-03-CG	FLR
25	5	· .	1/4 npt Nipple
26	3		1/4 npt Tee
27	7		3/8 Poly Tube per foot
28	3		5/32 Poly Tube per foot

HYDRAULIC CONTROL VALVE PORT LOCATIONS



FRONT VIEW





BOTTOM VIEW

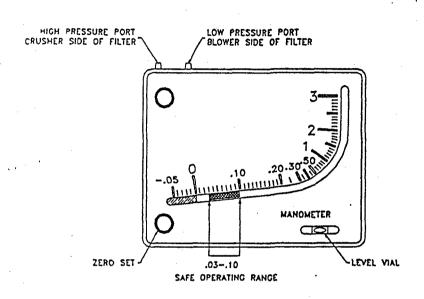
RIGHT SIDE VIEW

TOP VIEW

Valve Body Componets 9/4/03

Port #	Part Number	Description
	A04B2 HZN	Relief Valve
6	AD0V-12-N-3A-0-4T	Air Operated Directional Valve
7	AD0V-10-N-4A-0-4T	Air Operated Directional Valve
8	11007531o	Hydraulic Piloted Air Valve
9	BSOS-08-N-S-30	Pressure Breaker/Seq. Valve
10	DO2B2-25.0-N	Check Valve 25.0 Bar
11A	R04D3-5.0-N	Diverter Valve
11B	R04D3-5.0-N	Diverter Valve
11C	PD12-32-0-N-110	2way Pilot Valve
11D	R04D3-5.0-N	Diverter Valve
12	A04K2 HZN	Kick-Down Relief Valve
13	CBPA-10-N-8-15	Counterbalance Valve
14	P164375	Donaldson Oil Filter
	1455A	NAPA Oil Filter
	HF 717	Hasting Oil Filter
		Hydraulic Assem Complete

MONITORING THE VAPOR CONTROL SYSTEM



The Vapor Control system consists of four major components. These are the Cyclone Separator, the Filter Cabinet, a Centrifugal Blower, and a Manometer.

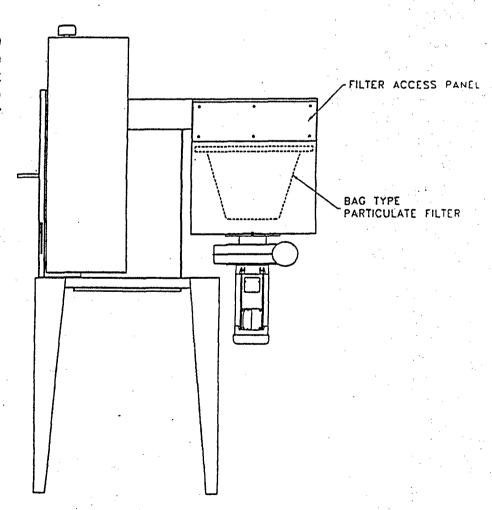
The Manometer is a system monitoring device that will indicate two important conditions.

A gauge reading below .03 indicates a blower off or blower malfunction condition.

A gauge reading above .10 indicates a dirty or clogged particulate filter.

All Vapor Control crushers are equipped with a bag type particulate filter. The filter is housed in a cabinet located just above the blower. To insure proper ventilation the filter must be changed when it becomes blocked or dirty. A manometer gauge reading above .10, will indicate a blocked filter condition.

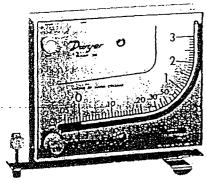
To change the air filter, remove the filter access panel and lift out old filter. Replace the dirty filter with a new clean filter making sure that the filter edges are laying flat against the filter frame.





Instructions For

MARK II SERIES MOLDED PLASTIC MANOMETERS



Mark II Model No. 25 inclined-vertical manometer, (shown with optional A-612 portable stand)

Dwyer Mark II Manometers come in a variety of ranges. Make sure the oil being used is for the correct manometer.

Mark II #25, 27, MM-80 and M-700 Pa use red gage oil (specific gravity .826).

Mark II #26, 28 and MM180 use blue gage oil (specific gravity 1.9).

If additional oil is required, call or fax nearest Dwyer office listed at bottom of page.

Installation

Position manometer on a vertical surface. Drill two 1/8" or 9/64" holes on a vertical line 31%6" apart. Loosely mount manometer with self-tapping screws provided Adjust gage until level bubble is centered in level vial, then secure the manometer tightly.

For portable use, order optional A-612 Portable Stand

Filling

Turn the zero set knob counterclockwise until it stops, then turn clockwise 3 full turns. This puts zero in approximately the middle of the travel adjustment in either direction. Remove the fill plug and fill with gage fluid until fluid reaches zero on scale. Minor adjustments can be made to adjust zero by adjusting zero knob. Replace fill plug. If gage is overfilled, remove excess by inserting pipe cleaner through the fill port to blot up excess oil.

Maintenance

Check oil level regularly and adjust zero with zero adjust knob. Be sure tubing connections are disconnected and gage is open to atmosphere before adjusting zero. Clean with mild soap and water. Avoid any cleaning fluids which may result in damaging the gage.

Accessories

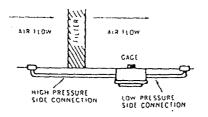
Each Mark II manometer includes two tubing connectors for 1/8" pipe or sheet metal ducts, two mounting screws, 3/4 oz. bottle of indicating fluid, red and green pointer flags, 8' of double column tubing and instructions

COPYRIGHT PPS DWYLD DISTROMENTS INC

MARK IL MANOMETER INSTRUCTIONS

MPTICATIONS



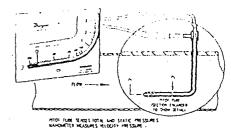


Air Filter Gage

Mount gage within 3 ft. of filter bank. Install tubing adapters on each side of filter. Run tubing from clean side of filter to positive pressure side of gage (left fitting). Run downstream side to low pressure side of gage (right fitting). Install green and red arrows adjacent to indicating tube to indicate filter condition.

Air Velocity Meter

A pitot tube should be used for air velocity readings. Install the pitot tube and gage carefully to ensure accuracy. Select a location for the pitot tube with at least four diameters of smooth straight sections of duct both upstream and downstream. Install pitot tube in the center of duct with tip directed into air stream. Connect the right angle (leg parallel to tip) to negative (right fitting) and straight pitot tube connection to positive (left connection) of gage. The velocity reading shown on the gage is the center or maximum velocity. For average velocity across the full area, multiply by a factor of 0.9.



Nos. 27 and 28 require pitot tube at additional cost. See Bulletin F-41-F.

The velocity indicated is for dry air at 70°F, 29.9" barometric pressure and a resulting density of 0.075 lb/ft³. For variation from these standard conditions, corrections may be based upon the following data.

AIR VELOCITY CALCULATIONS:

Air Velocity = 1096 .2
$$\sqrt{\frac{Pv}{D}}$$

where Pv - velocity pressure in inches of water

D - Air density in lb/ft3

Air Density =
$$1.325 \times \frac{PB}{T}$$

where PB - Barometric Pressure in inches of mercury

T - Absolute Temperature (indicated temperature °F plus 460)

Flow in cu. ft. per min. - Duct area in square feet × air velocity in ft. per min.

UTHO IN U.S.A. 11796

-67-440215 (X

OPERATING & MAINTENANCE INSTRUCTIONS AND PARTS LIST

for

PB - Cast Aluminum Pressure Blowers

SPB - Stamped Steel Pressure Blowers

PBS - Fabricated Steel Pressure Blowers

LM - Volume Blowers

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/ DANGER

ALL FANS AND BLOWERS SHOWN HAVE ROTATING PARTS AND PINCH POINTS SEVERE PERSONAL INJURY CAN RESULT IF OPERATED WITHOUT GUARDS. STAY AWAY FROM ROTATING EQUIPMENT UNLESS IT IS DISCONNECTED FROM ITS POWER SOURCE AND ALL ROTATING PARTS HAVE STOPPED MOVING.

READ ALL OPERATING INSTRUCTIONS CONTAINED HEREIN BEFORE INSTALLING EQUIPMENT.



DANGER

NO GUARANTEE OF ANY LEVEL OF SPARK RESISTANCE IS IMPLIED BY SPARK RESISTANT CONSTRUCTION. IT HAS BEEN DEMONSTRATED THAT ALUMINUM IMPELLERS RUBBING ON RUSTY STEEL MAY CAUSE HIGH INTENSITY SPARKS. AIR STREAM MATERIAL AND DEBRIS OR OTHER SYSTEM FACTORS MAY ALSO CAUSE SPARKS.



PART # 0 CATALOG # PARA SUPERSEDES: PARA

GENERAL SAFETY NOTES

- 1. Rotating parts including shaft and V-belt drives must be properly guarded to prevent personal injury.
- 2. Electrical wiring must be accomplished by a qualified electrician in accordance with all applicable codes.
- 3. Care should be taken:
 - Not to run fan above its safe speed (See Performance Tables in Sales Catalog or call CF sales office).
 - Not to operate in excessive temperatures (See limitations in Sales Catalog or call CF sales office).
 - Not to operate in dangerous environments.
 - · Read all instructions carefully.

II RECEIVING

Receiving Inspection

When unit is received, inspect immediately for damaged or missing parts. Even though all units are carefully inspected and prepared for shipment at the factory, rough handling enroute may cause concealed damage or cause nuts, set screws, bolts or locking ars to work loose. Be certain all fasteners are

Table #1

TORQUE VALI	JES FOR TAPER	ED BUSHINGS
	MINIMUM RECOMMENDED TORQUE (INCH-LBS)	
Bushing Size	Steel Parts	Alum, Parts
Н	95	60
Р	192	80
Q	350	155
R	350	155

tightened securely. Rotate wheel by hand to verify that it rotates freely and that there are no obstructions.

Inspect all shipments carefully for damage. The receivermust note anydamage on the carrier's bill of lading and file a claim immediately with the freight company in the case of damage. Keep a record of all equipment received, including inspection details and date of receipt because of the possibility of partial shipments.

III HANDLING .

Handle your equipment with care. Some fans are provided with lifting lugs or holes for easy handling. Others must be handled using nylon straps or well-padded chains and cables which protect the fan's coating and housing. Spreader bars should be used when lifting large parts.

Centrifugal fans are best lifted using one strap under the fan's scroll and another strap around the bearing base.

DO NOT LIFT CENTRIFUGAL FANS BY THE FAN SHAFT, WHEEL, FLANGES, INLET SUPPORT, OR MOTOR EYE BOLT.

IV GENERAL INSTALLATION INSTRUCTIONS

Foundations

Fan foundation must be flat, level and rigid. Where foundation is not completely flat, shims must be placed under fan support at each anchor bolt as required. Bolting fan to an uneven foundation distorts alignment and causes vibration.

Structural steel foundations should be heavily crossbraced for load support.

Table #2

Table #2	057.00	DEW TODOUT VALUES	
SET SC	REW SIZE	CREW TORQUE VALUES MINIMUM	REQUIRED TORQUE (INCH-LBS)
Diameter & No. of Threads/Inch	Hex Size Across Flats (Allen Wrench)	Steel Set Screw Into Steel Threads	Steel Set Screw Into Aluminum Threads or Stainless Steel Set Into Stainless Steel Threads
1/4-20	1/8"	65	65
5/16-18	5/32"	165	100
3/8-16	3/16"	228	155
7/16-14	7/32"	348	230
1/2-13	1/4"	504	330
5/8-11	5/16"	1104	700

If wheel set screws are loosened and/or wheel is removed from shaft, set screws <u>must</u> be replaced. Set screws cannot be used more than once. Use knurled, cup point set screws with a locking patch.



V OPERATION .

Before Connecting Power

- 1. Inspect all fasteners and retighten if necessary: a. Foundation bolts.
 - b. Set screws in fan wheel, bearings and V-belt drive (See Tables #1 & #2 on preceding page).
 - c. Housing, bearing and motor mounting.
- 2. Any inspection doors should be tight and sealed.
- 3. Bearings should be checked for alignment and lubrication (See Fan Bearing Maintenance, page 5).
- 4. Turn rotating assembly by hand to insure that it does not strike housing. If the wheel strikes the housing, the wheel may have moved on the shaft or the bearings may have shifted in transit. Correction must be made prior to start up.
- 5. Check motor to insure proper speed and electrical characteristics.
- 6. Check V-belt drive for alignment and correct belt tension.
- 7. After wiring, energize motor for 1 second to check for proper rotation.

VI GENERAL MAINTENANCE



Before any maintenance or service is performed, assure that unit is disconnected from power source to prevent accidental starting.

The key to good fan maintenance is a regular and systematic inspection of all fan parts. Severity of the application should determine frequency of inspection. The components requiring service are generally the moving parts which include bearings, fan wheel, belts, sheaves and motor.

Cast Aluminum & Metal Parts

Cast aluminum and steel parts usually do not require maintenance during the life of the unit except painted metal surfaces that may require periodic repainting. In a severe, dirty operation, the wheel should be cleaned with a wire brush to prevent an accumulation of foreign matter that could result in fan unbalance. After cleaning wheel, inspect for possible cracks or excessive wear, which can cause unbalance. DO NOT operate a wheel that is cracked, chipped, has broken blades or excessive wear. NOTE If wheel set screws are loosened and/or wheel is removed from shaft, set screws must be replaced. Set screws cannot be used more than once. Belts on V-belt drive units require periodic inspection and replacement when wom. For multiple belt drives, belts should be replaced with matched sets.

Motor Maintenance

- Disconnect power to motor.
- 2. Removing dust and dirt: Blow out open type motor windings with low pressure air to remove dust or dirt. Air pressure above 50 P.S.I. should not be used as high pressure may damage insulation and blow dirt under loosened tape. Dust accumulation can cause excessive insulation temperatures.
- 3. Lubrication: The motor bearings and the fan bearings on the belt drive fans should be greased at regular intervals. Motor manufacturers' greasing instructions and recommendations should be followed closely. Avoid the use of a pressure greasing system which tends to fill the bearing chamber completely. Do not overgrease. Use only 1 or 2 shots with a hand gun in most cases. Maximum hand gun rating 40 P.S.I. Rotate bearings during lubrication where good safety practice permits. NOTE: On motors with non-regreasable sealed bearings, no lubrication is required for the life of the bearings.

To prevent rusting of bearing parts, the motor shaft must be rotated at regular intervals (30 days) to assure these parts are well covered with oil or grease.

A WORD OF CAUTION ABOUT MOTORS

Using your hand to test the running temperature of a motor can be a very painful experience:

·	
Normal body temperature	98.6°F
Threshold of pain caused by heat	120.0°F
Average temperature of hot tap water	140.0°F
Average temperature of hot coffee	180.0°F
Normal operating temperature of a fully loaded electric motor, open type, 70°F ambient temperature	174.0°F



VII V-BELT DRIVES

Care should be taken not to over tighten V-belt drive. Excessive belt tension overloads fan and motor bearings. It is much less expensive to replace belts worn from slippage than to replace bearings damaged from excessive loading.

Fans shipped completely assembled have had V-belt drive aligned at the factory. Alignment should be rechecked before operation as a precaution due to handling during shipment.

- 1. Be sure sheaves are locked in position.
- 2. Key should be seated firmly in keyway.

- 3. Place straight edge or taut cord across faces of driving and driven sheaves to check alignment. The motor and fan shafts must be parallel and V-belts must be at right angles to the shafts.
- 4. Start the fan. Check for proper rotation. Run fan at full speed. A slight bow should appear on slack side of belt. Disconnect power and adjust belt tension by adjusting motor on its sliding base. All belts must have some slack on one side.
- 5. If belts squeal at start up, they may be too loose.
- 6. When belts have had time to seat in the sheave grooves, then readjust belt tension (2-3 days):

Table #3 (See Fan Bearing Maintenance, page 5.)

Conditions Around Bearing	Operating Temperature of Fan	**Greasing Intervals
Fairly Clean	up to 120°F 121°-160°F	6 -12 months 2-3 months
	161°-200°F plus*	1-2 months
Moderate to	up to 160°F	1-2 months
Extremely Dirty	161°-200°F plus*	2-4 weeks
Cold Storage Room		every defrosting period or no more than 4 months

- * For fan applications over 200°F: greasing intervals should be from several days to 2 weeks, depending on the temperature.
- "For vertical installations, greasing intervals should be twice as frequent as table values.

The following greases, or one that is equivalent to the general description, are recommended for the following temperatures or excessive moisture applications.

Operating Conditions

Use Grease Equivalent to these Grades

Esso-Beacon # 325 (-65°F) Mobil Grease # 28 (-65°F)

Shell Oil Aeroshell No. 7 (-100°F)

Temperatures -65°F to 0°F

General Description: Versatile multipurpose microgel thickened synthetic hydrocarbon grease with

corrosion inhibitors, anti-oxidant additives, water resistance tendencies and EP

characteristics.

Temperature 0°F to 200°F inclusive (Also use for heavy condensation

Mobil Oil - Mobilux EP # 2

Shell Oil - Shell Alvania EP # 2

or direct splash of water)

Chevron - Chevron SRI # 2

General Description: Multipurpose NLGI # 2 grease from lithium soap with EP characteristics, rust

inhibitors, anti-oxidant additives and good water resistance tendencies.

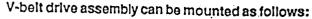
Temperatures over 200°F

Dow Corning - DC44 (400°F)

(Not compatible with non-silicon based greases)

General Description: Versatile multipurpose microgel thickened synthetic hydrocarbon grease with

corrosion inhibitors, anti-oxidant additives, water resistance tendencies and EP characteristics.



- 1. Clean motor and fan shafts. Be sure they are free from corrosive material. Clean bore of sheaves and coat with heavy oil for ease of shaft entry. Remove oil, grease, rust or burns from sheaves.
- 2. Place fan sheave on fan shaft and motor sheave on its shaft. Do not pound sheaves on as this may damage bearings. Tighten sheaves per Table # 1 or # 2 on page 2.
- 3. Move motor on slide base so belts can be placed in grooves of both sheaves without forcing. Do not roll belts or use a tool to force belts over the grooves.
- 4. Align fan and motor shafts so they are parallel. The belts should be at right angles to the shafts. A straight edge or taut cord placed across the face of the sheaves will ald in alignment.
- 5. Tighten belts by adjusting motor base. Correct tension gives the best drive efficiency. Excessive tension causes undue bearing pressure.
- 6. Start the fan and run it at full speed. Adjust belt tension until only a slight bow appears on the slack side of the belts. If slippage occurs, a squeal will be heard at start-up. Eliminate this squeal by disconnecting power and tightening up the belts.
- 7. Give belts 2-3 days running time to become seated in sheave grooves, then readjust belt tension.

If the shafts become scratched or marked, carefully remove sharp edges and high spots such as burrs with fine emery cloth or honing stone. Avoid getting emery dust in the bearings.

Do not apply any belt dressing unless it is recommended by the drive manufacturer. V-belts are designed for frictional contact between the grooves and sides of the belts. Dressing will reduce this friction.

Belt tension on an adjustable pitch drive is obtained by moving the motor, not by changing the pitch diameter of the adjustable sheave.

VIII FAN BEARING MAINTENANCE

Sealed Bearings

Sealed for life bearings are pre-lubricated with the correct amount of manufacturer approved ball bearing grease, and are designed for application where relubrication is not required.

Relubricatable Bearings

The motor bearings and fan bearings on belt drive fans should be greased at regular intervals. Motor manufacturers greasing instructions and recommendations should be followed closely. Avoid the use of a pressure greasing system which tends to fill the bearing chamber completely. Do not over grease.

NOTE: On motors with non-regreasable, sealed bearings, no lubrication is required for the life of the bearing.

Table #3 (page 4) lists the time intervals between fan bearing greasing to insure proper lubrication in adverse conditions of heat and dust. Use only 1 or 2 shots with a hand gun in most cases. Maximum handgun rating 40 P.S.I.

IX WARRANTY

Cincinnati Fan & Ventilator Company warrants products of its own manufacture against defects of material and workmanship under normal use and service for a period of eighteen (18) months from date of shipment or twelve (12) months from date of installation, whichever occurs first.

This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, negligence, alteration or systems and/or materials not of Seller's manufacture. Expenses incurred by Buyer(s) in repairing or replacing any defective product will not be allowed except where authorized in writing and signed by an officer of the Seller.

The obligation of Seller under this warranty shall be limited to repairing or replacing F.O.B. Seller's plant, or allowing credit at Seller's option. This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and of all other obligations and liabilities of the Seller. The Buyer acknowledges that no other representations were made to him or relied upon him with respect to the quality or function of the products herein sold.

On equipment furnished by the Seller, but manufactured by others, such as motors, Seller extends the same warranty as Seller receives from the manufacturer thereof. Repairs for motors should be obtained from nearest authorized motor service station for the make of motor furnished. All motors used are products of well-known manufacturers with nationwide service facilities. Check the yellow pages of your telephone directory for the location of the nearest service shop.

Cincinnati Fan & Ventilator Company assumes no responsibility for material returned to our plant without our prior written permission.

X ORDERING REPLACEMENT PARTS

replacement or spare parts may be ordered through your local Cincinnati Fan representative. (Refer to drawings that begin on page 7.)

The following information should accompany parts orders:

- Motor horsepower, frame size, motor speed, voltage, phase, cycle and enclosure. Motor manufacturer's model number from motor nameplate.
- 2. Fan Speed (if V-belt driven).
- 3. Fan serial and model numbers from the fan nameplate and a complete description of the part.

An adequate stock of repair parts is maintained where possible. If your fan is vital to production or to plant operation, it is advisable to have all spare parts on hand to minimize the possibility of downtime.

XI FAN TROUBLE SHOOTING

In the event that trouble is experienced in the field, the following are the most common fan difficulties. These points should be checked in order to prevent needless delay and expense.

1. CAPACITY OR PRESSURE BELOW RATING

- a. Incorrect direction of wheel rotation.
- b. Speed too slow.
- c. Dampers not properly adjusted.
- d. Poor fan inlet or outlet conditions (elbows, restrictions).
- e. Air leaks in system.
- f. Damaged wheel.
- g. Total resistance of system higher than anticipated.
- h. Wheel mounted backwards on shaft.
- Fan not properly selected for a high temperature and/or high altitude application.

2. VIBRATION AND NOISE

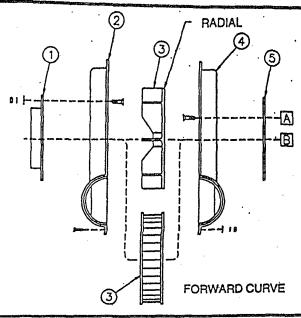
- a. Misalignment of bearings, coupling, wheel or V-belt drive.
- b. Unstable foundation or supports.
- c. Foreign material in fan causing unbalance.
- d. Worn bearings.
- e. Damaged wheel or motor.
- f. Broken or loose bolts and set screws.
- g. Bent shaft.
- h. Worn coupling.
- i. Fan wheel or drive unbalanced.
- j. 120 cycle magnetic hum due to electrical input. Check for high or unbalanced voltage.
- k. Fan delivering more than rated capacity.
- I. Loose dampers.
- m. Speed too high or fan rotating in wrong direction.
- N. Vibration transmitted to fan from some other source.

3. OVERHEATED BEARINGS

- a. Check bearing lubrication.
- b. Poor alignment.
- c. Damaged wheel or drive.
- d. Bent shaft.
- e. Abnormal end thrust.
- f. Dirt in bearings.
- g. Excessive belt tension.

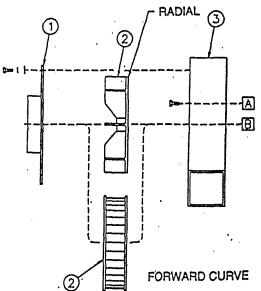
4. OVERLOAD ON MOTOR

- a. Speed too high.
- b. Fan over capacity due to existing system resistance being lower than original rating.
- c. Specific gravity or density of gas above design value.
- d. Wrong direction of wheel rotation.
- e. Shaft bent.
- f. Poor alignment.
 - g. Wheel wedging or binding on fan housing.
- h. Bearings improperly lubricated.
- i. Motor improperly wired.
- Defective motor. Motor must be tested by motor manufacturer's authorized repair shop.



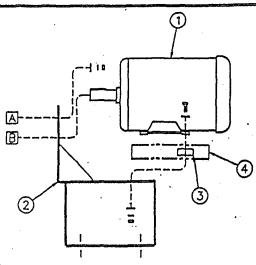
MODELS PB, SPB & LM HOUSING/WHEEL COMPONENTS All arrangements

- *1. Inlet side plate (if required).
- *2. Housing, inlet side.
- *3. Wheel (Radial or Forward Curve).
- 4. Housing, drive side.
- 5. Drive side plate (if required).
- NOTE: Rotation determined by viewing blower from drive side, not looking into inlet.



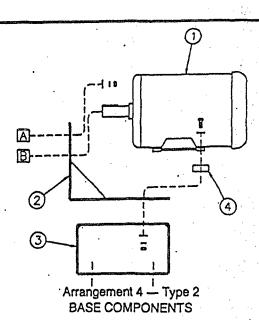
MODEL PBS FABRICATED HOUSING/WHEEL COMPONENTS All arrangements

- *1. Inlet'side plate.
- *2. Wheel (Radial or Forward Curve).
- 3. Housing, non-reversible (CW or CCW).
- NOTE: Rotation determined by viewing blower from drive side, not looking into inlet.

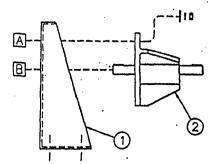


Arrangement 4 — Type 1
BASE COMPONENTS

- 1. Motor.
- 2 Combo base.
- 3. Riser blocks (if required).
- 4. Riser base, 1-3/4" (if required).

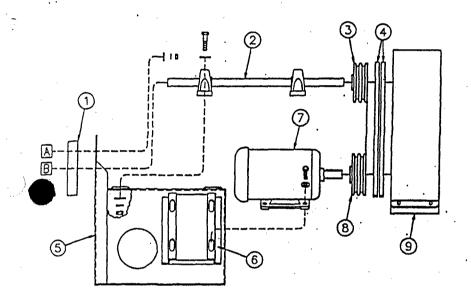


- 1. Motor.
- 2. Angle bracket (if required).
- 3. Bottom base.
- 4. Riser blocks (if required).



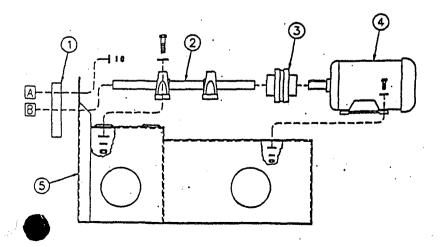
Arrangement 2 BASE COMPONENTS

- 1. Upright base.
- 2. Shaft/bearing assembly.



Arrangements 1 & 9 BASE COMPONENTS

- Spacer ring (not required for PBS blowers).
- 2. Shaft/bearing assembly.
- 3. Fan sheave. (Arr. 9 only).
- 4. Belt(s). (Arr. 9 only).
- 5. Bearing base.
- 6. Motor slide base. (Arr. 9 only).
- 7. Motor. (Arr. 9 only).
- 8. Motor sheave. (Arr. 9 only).
- 9. Belt guard. (Arr. 9 only).



Arrangement 8 BASE COMPONENTS

- Spacer ring (not required for PBS blowers).
- 2. Shaft/bearing assembly.
- 3. Shall coupling.
- 4. Motor.
- 5. Base.

RECOMMENDED

SAFETY PRACTICES

FOR USERS AND INSTALLERS OF

INDUSTRIAL AND COMMERCIAL FANS



AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL INC.

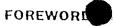
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AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

AMCA PUBLICATION

410-91



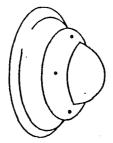
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- i. This publication has been prepared by the Air Movement Division of the Air Movement and Control Association International, Inc. (AMCA). The information contained in this publication has been derived from many sources. The suggestions made necessarily should be general in their meaning and cannot be applied literally to all specific situations or conditions.
- ii. The safe installation and operation of fans is the responsibility of the system designer, installer, maintainer, and user. From the initial system design through the life of the equipment, safety should be a foremost consideration. Some areas which require some special attention include system design, layout and construction, fan performance specifications, foundation and installation details, storage procedures, start-up and commissioning procedures, operation, maintenance, and repair. Specific safety requirements are mandated by federal, state, and local codes. Recommended Safety Practices for Users and Installers of Industrial and Commercial Fans is published by AMCA for assistance. System designers, installers, maintainers, and users should consult and properly comply with all applicable codes and guidelines.
- iii. The safety recommendations contained herein are intended to assist designers, installers, maintainers, or other users of air moving devices in the safe operation and use of the devices mentioned. These recommendations do not represent the only methods, procedures, or devices appropriate for the situations discussed. Caution should be used at all times when working in or around moving parts.
- v. AMCA disclaims any and all warranties, expressed or implied, regarding the products sold by the manufacturer with which this booklet has been provided. Further, AMCA recommends that competent personnel be consulted in deciding what is the preferred or recommended safety procedure in a particular instance where the guidelines contained in this booklet are unclear or in any way incomplete.
- AMCA has offered the information within this booklet to assist in the safe peration, maintenance, and use of the products sold by members of AMCA. In o doing, AMCA does not assume any legal duties of the designer or manufacter to instruct or warn about their product. AMCA expressly disclaims liability or any injury or damage arising out of the operation or use of the product or the sidelines contained herein.
- These recommended safety practices were adopted by the AMCA membertip on April 28, 1996

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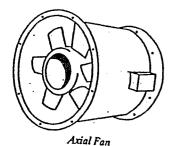
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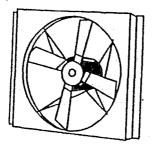


Power Roof Ventilator



Wall Exhauster

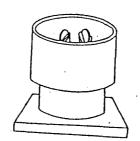




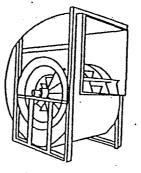
Propeller Fan

1. INTRODUCTION

A CONTRACTOR OF STATE OF THE ST



Upblast Roof Exhauster



Centrifugal Fan

- 1.1 Fans and other air moving devices are made in a wide variety of types, sizes, and arrangements. This publication addresses the proper use and installation of industrial and commercial fans. It is not intended to address residential and consumer fans.
- 1.2 Various "size" factors are important when assessing potential for injury; some factors are: diameter of impeller (wheel, rotor, propeller), rotational inertia, voltage, and current.
- 1.3 This guide is intended to assist in the safe installation of air moving equipment and to warn operating and maintenance personnel of the commonly recognized hazards associated with this equipment.
- 1.4 Handling and installation should always be performed only by experienced and trained personnel who are aware of the hazards associated with rotating equipment. Failure to comply with these practices may result in death or serious bodily injury. In addition to following the manufacturer's installation instructions, care should be taken to ensure compliance with specific safety requirements mandated by federal, state, and local codes. Industry safety standards and practices published by AMCA and by other recognized agencies and associations should be consulted and followed where applicable.

2. PERSON EL SAFETY ACCESSORIES

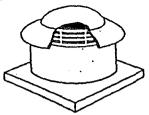
2.1 GENERAL

2.1.1 Protective devices are incorporated as standard construction on some types of fans but on many fans, these devices are offered as optional accessories. This is done because the need for the devices and the design required will frequently depend upon the type of system. fan location, and operating procedures being employed. Proper protective safety devices; company safety standards; specific safety requirements mandated by federal, state, and local codes; and industry safety standards and practices published by AMCA and by other recognized agencies and associations should be determined by the user, who should specify and obtain the appropriate devices from the fan manufacturer or others, and should not allow operation of the equipment without them. Examples of available devices include the following:

2.2 FAN GUARDS

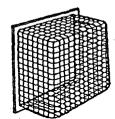
- 2.2.1 All fans have moving parts which require guarding in the same way as other moving machinery. Fans located less than seven (7) feet above the floor require special consideration. Specificsafety requirements should comply with mandated federal, state, and local codes; and industry safety standards and practices published by AMCA and by other recognized agencies and associations should be followed.
- 2.2.2 Roof-mounted fans and other fans which are not generally accessible may not require

safety guards which might otherwise be appropriate. Where accessibility to these fans is occasional or infrequent, the expense of permanent guarding may be reduced through the use of lockout switches and suitable warnings. In such cases, maintenance personnel should engage the lockout switch before undertaking any maintenance or repairs. As is the case with other machinery involving moving parts, common sense and caution will preserve personal safety.

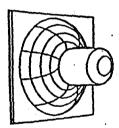


ALTERNATION TO THE STATE OF THE

Screen on Roof Ventilator



Maximum Safety Guard for Propeller Fan



Industrial Type Guard for Propeller Fan

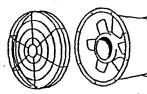
2.3 INLET AND OUTLET GUARDS

2.3.1 Axial and centrifugal fans are often connected directly to ductwork which will prevent contact with the internal moving parts; when an exposed inlet or outlet represents a hazard, a suitable guard should be installed.



Centrifugal Fan Protected by Ductwork



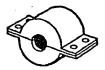


Guard for Axial Fan With Non-ducted Inlet or Outlet

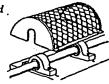
Inlet or Outlet Guard on Centrifugal Fan

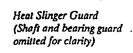
2.4 DRIVE GUARDS

2.4.1 Fans may be driven directly from the motor shaft or through a belt drive. Where the bearing assembly, rotating shaft, sheaves, or belts are exposed, a suitable guard may need to be provided. Some example guards are shown below.



Drive Coupling Guard



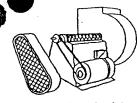


Shaft and Bearing Guard

2.4.2 Drive guards may be required for tubular centrifugal or axial fans to cover the exposed drive sheave and belts outside the fan housing.



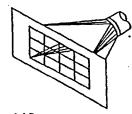
rive Guard-Axial Fan



Drive Guard-Centrifugal Fan

- 2.4.3 A typical centrifugal fan drive guard may vary with the arrangement. Safety guards should be used when drive systems are accessible to personnel. In restricted areas, omission of the back cover may be acceptable.
- 2.4.4 Dampers and their linkage may operate suddenly without warning at high speeds. Dampers and their linkage contain pinch points which should be identified and guarded.

3. HIDDEN DANGERS



Special Purpose Intake Screen

3.1 GENERAL

3.1.1 In addition to the obvious hazards associated with the moving parts of rotating machinery, fans present additional potential hazards that are not so obvious and should be considered by the system designer and user for safe operation.

3.2 SUCTION AND AIR PRESSURE

- 3.2.1 Fans operate by creating suction and air pressure which can be hazardous. Solid objects can be drawn into a fan's inlet and then become dangerous projectiles when they are exhausted through the fan's outlet. Solid objects can also cause fan failure or impeller failure due to imbalance or damage to the impeller blades. Personnel in close proximity to a fan inlet can be overcome by the suction, and drawn into the fan.
- 3.2.2 Whenever there is a possibility that solid objects can be drawn into a remote intake, the

intake should be guarded at all times. Before a guard is removed, the fan should be disconnected and the power supply locked out.

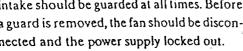
3.2.3 Where fans are installed over an occupied area, safety guards should be provided to prevent dropped objects from entering this area during installation and maintenance.

3.2.4 Access doors to a fan or duct system should never be opened while the fan is operating or coasting to a stop. On the downstream (or pressure) side of the system, releasing the door with the system in operation may result in an explosive opening. On the upstream (or suction) side, the inflow may be sufficient to draw in tools, clothing, and other materials. The power supply should always be locked out prior to accessing a fan or ductwork.

3.2.5 Fan design sometimes requires access doors to be supplied with internal components such as a plug to fill a hole in the fan casing. These doors can often be heavy and difficult to handle. Care should be exercised when opening, removing, and installing these components.

3.3 WINDMILLING

3.3.1 Even when the power supply is locked out, fans may cause injury or damage if the impeller is subject to "windmilling" which is the turning of the impeller and drive components due to a draft in the system. To guard against this hazard, the impeller should be secured to physically restrict rotational movement





3.4.1 Many fans, fan motors, and fan components run at temperatures that could burn someone who comes in contact with the hot areas, including discharged or leaking gases. If this potential hazard is present, steps should be taken so that personnel working near the fan are aware of the danger and can exercise caution.

3.5 FAN NOISE AND ENVIRONMENT

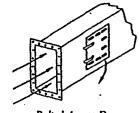
3.5.1 Some fans can generate sound that could be hazardous to exposed personnel. Sound pressure can be measured in the field, but obtaining accurate data is difficult. The environment in which the fan operates can impact the ability to obtain accurate fan sound readings. Consult the manufacturer for fan sound data. It is the responsibility of the system designer, installer, user, and maintainer to comply with specific safety requirements mandated by federal, state, and local codes; and to follow industry safety standards and practices published by AMCA and by other recognized agencies and associations, regarding personnel safety from exposure to fan noise associated with use and exposure to the equipment.



Hearing Protection

3.6 STROBOSCOPIC EFFECT

3.6.1 The stroboscopic effect of certain lights in combination with certain fan speeds may cause a rotating assembly to appear stopped. In these cases, irregular markings can be placed on the moving parts to prevent this type of effect. Personnel should be warned that the fan may be in motion even if it appears not to be.



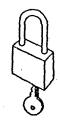
Bolted Access Door in Duct

3.7 SPECIAL PURPOSE FANS AND SYSTEMS

3.7.1 The hidden dangers associated with Special Purpose Fans used in special systems are covered in Section 6.

4. POWER ISOLATION

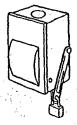
- 4.1 Every fan should be installed with a suitable device allowing it to be completely disconnected or isolated from the power supply.
- 4.2 Many fans are started by remote switches or push-buttons, by interlocks with other equipment, or by automatic controls. Before performing any maintenance, inspection, or other activity which will require removal of guards, ductwork, access doors, etc., or exposure of moving parts, the fan power supply should be locked out and the fan tagged out of service.
- 4.3 In some installations other equipment, such as gas burners, may be interlocked with the fan so that disconnecting the fan will automatically shut off the burner or other device. Maintenance on systems of this type should be performed only under the supervision of competent engineering personnel and in accordance with applicable codes and standards.
- 4.4 In cases where the fan is power driven by a source other than an electric motor, appropriate provisions should be made for the isolation or disengagement of the power supply.



Lock Carried by Maintenance Personnel



Remote Switch



Disconnect Switch

5. START-UP CHECK LIST

5.1 GENERAL

- 5.1.1 Before putting any fan into initial operation, the manufacturer's instructions should be followed. Transportation, handling, and installation can cause fasteners to loosen, and cause misalignment of fan components. Carefully follow this check list when commissioning equipment.
- 5.1.2 Lock out the primary and all secondary power sources.
- 5.1.3 A complete inspection should be made of all of the ductwork and the interior of the fan. Make certain there is no foreign material which can be drawn into or blown through the fan or ductwork. Appropriate protective measures and safety practices should be observed when entering or working within these areas. These measures might include the use of goggles, respirators, or other personal protective devices.
- 5.1.4 Make sure the foundation or mounting arrangement and the duct connections are adequately designed and installed per drawings and in accordance with recognized acceptable engineering practices and with the fan manufacturer's recommendations.
- 5.1.5 Check and tighten all bolts, fasteners, and set screws as necessary.
- 5.1.6 Check the fan assembly and bearings for proper grounding to prevent static electricity discharge.

- 5.1.7 Ensure power and drive components such as motor starter, variable frequency drive, or hydraulic power unit are properly sized, matched, and connected to the fan.
- 5.1.8 Check bearings for recommended lubricant and lubrication amount.
- 5.1.9 Spin the rotating assembly to determine whether it rotates freely, without hitting anything, and is not grossly out of balance.
- 5.1.10 Inspect impeller for proper rotation for the fan design.
- 5.1.11 Check alignment of drives and all other components.
- 5.1.12 Check the belt drive for proper sheave selection and installation and make sure the sheaves are not reversed (excessive speeds could develop).
- 5.1.13 Check for recommended belt tension.
- 5.1.14 Properly secure all safety guards.
- 5.1.15 Assure that all appropriate warnings have been put in place.
- 5.1.16 Secure all access doors to the fan and ductwork.
- 5.1.17 Momentarily energize the fan to check the direction of rotation. Listen as the fan coasts to a stop for any unusual noise, identify the source, and take corrective action as necessary.

- 5.1.18 Switch on the electrical supply and allow the fan to reach full speed. Check carefully for:
- (1) Excessive vibration
- (2) Unusual noise
- (3) Proper belt alignment
- (4) Proper lubrication
- (5) Proper amperage, voltage, or power values.
- (6) If any problem is indicated, SWITCH OFF IMMEDIATELY.
- (7) Lock out the power supply. Secure the fan impeller if there is a potential for windmilling. Check carefully for the cause of the trouble, correct as necessary, and repeat check list procedure.
- 5.2 Even if the fan appears to be operating satisfactorily, shut down after a brief period, lock out the power supply, and recheck items 5.1.5 through 5.1.17 as the initial start-up may have loosened the bolts, fasteners, and set screws.
- 5.3 The fan may now be put into operation, but during the first eight hours of running, it should be closely observed and checked for excessive vibration and noise. At this time checks should also be made of motor input current and motor and bearing temperatures to ensure that they do not exceed manufacturer's recommendations.
- 5.4 After eight hours of operation, the fan should be shut down and the power locked out. Check list items 5.1.5 through 5.1.17 should be inspected and adjusted, if necessary.
- 5.5 After twenty-four (24) hours of satisfac-

tory operation, the fan should be shut down (locked out) and the drive belt tension should be readjusted to recommended tension.

5.6 After commissioning and start-up, the fan should be operated and maintained in accordance with the manufacturer's and component manufacturer's recommendations. Some basic guidelines for WARNING SIGNS and ROUTINE MAINTENANCE are included in Sections 7 and 8 of this publication. These sections are meant as a supplement to other publications and are not intended to replace the manufacturer's instructions.

6. SPECIAL PURPOSE FANS

- 6.1 Most fans are designed to handle clean air at standard temperatures between 32°F and 120°F. These fans should not be placed in systems or used for other than their design intended use. Special Purpose Fans are designed for use in systems that may include extreme temperatures, explosive, toxic, or special gases, material handling, corrosive environments, or other special hazards which should be carefully considered. Specific safety requirements should comply with mandated federal, state, and local codes; and industry safety standards and practices published by AMCA and by other recognized agencies and associations should be followed.
- 6.2 Where the system will handle explosive

or flammable materials (i.e., dust, furnes, vapors or gases), fans of spark-resistant construction should be used.

- 6.3 Fans connected by ductwork or other piping may contain gases other than air which are hazardous. In these cases, procedures should be established to prevent exposure of personnel working on or near the fan, and by maintenance personnel who may need to enter the fan. Appropriate personal protective equipment as determined by the material safety data sheet, and system operators should be utilized. Appropriate environmental protective measures should also be taken.
- 6.4 Fan inlet boxes, housings, ductwork, and other system components which are large enough to permit entry should be considered confined spaces. System areas may also serve as low points where heavy gases, liquids, or other substances may accumulate and present explosive, fire, health, or suffocation hazards. Appropriate protective measures and safety practices should be observed when entering or working within these areas.
- 6.5 Material-handling fans are specially designed to allow the fan to handle a specific type of material without excessive accumulation of material on the fan impeller. Fans handling corrosive gases or erosive materials should be checked periodically. If loss of material is evident, the fan should be shut down, power supply locked out, and tagged out of service. The manufacturer or other qualified personnel should be consulted to determine if the fan is within safety

limits for operation. To ensure satisfactory operation it is essential to observe the manufacturer's limitations concerning the type of material to be handled by the fan.

- Fan ratings and maximum speed limits are typically based on the use of air at 70°F. At temperatures above the normal range (specified by the manufacturer), a reduction should be made in the maximum speed limit. Information on this reduction and on other precautions to be taken for high temperature applications should be obtained from the fan manufacturer. Personnel working near high temperature fans should be aware that coming in contact with the fan's housing, ductwork, or handled gases could result in serious burns. Where the danger of burns is not apparent, appropriate warnings should be posted. Appropriate protective apparel should be worn whenever working in close contact with heated housings or ductwork.
- when moisture combines with an active airborne chemical. Fans subjected to corrosive contaminants will corrode; however, suitable protective coatings or material, if used in the fan construction, can delay corrosion. Protected fans should be regularly inspected to ensure that the protection remains effective. Personnel working in environments with airborne chemicals may require personal protective apparel equipment.
- 6.8 Where liquid can accumulate within the fan, provide for the installation of adequately sized drains.

6.9 In those applications where there is a potential for chemical build-up (such as grease, creosote, etc.), periodic cleaning and proper drainage are necessary to avoid a fire hazard.

7. WARNING SIGNS

7.1 GENERAL

7.1.1 A change in the operating characteristics of a fan may indicate the need for maintenance. Sudden changes may indicate severe problems or dangerous conditions developing. Investigate any changes in the operational characteristics or unusual symptoms of the fan. Refer to AMCA Publication 202, Troubleshooting, for a more detailed explanation of investigating procedures. Consult your manufacturer or other qualified consultant with questions concerning changes observed.

7.2 EXCESSIVE VIBRATION

7.2.1 Operational vibration levels are one of the best indicators of the condition of the blower. Careful observation and monitoring of vibration levels can detect a minor problem in the early stages of development when correction is less costly and easier. Recommended maximum vibration levels should be obtained from the equipment manufacturer.

7.2.2 If excessive vibration is observed, stop the fan and lock it out until the cause is corrected. Check for material build-up on the impeller. Generally this will show up as material flaking off the fan impeller and causing an

- 8.4 When performing maintenance functions which include disassembly of the fan, careful consideration should be given to the size, weight, center of gravity, and lifting means of the fan components. It should also be noted that the outboard bearing on some fans such as arrangements 1, 8, 9, and 10 is often cap-loaded. Removal of the securing means may result in a sudden change in impeller position.
- 8.5 Historical data is often the best indicator for determining the operational condition of the fan. Maintenance logs which include relubrication, vibration levels, temperature levels, power requirements, inspections, and other pertinent records should be maintained and consulted as necessary when assessing the condition of the fan.
- 8.6 Under normal circumstances, handling clean air, the system should require cleaning only once a year. However, the fan and system should be checked at regular intervals to detect any unusual accumulation.
- 8.7 The fan impeller should be specially checked for build-up of material or dirt which may cause an imbalance with resulting undue wear on bearings and belt drives. A regular maintenance program should be established as needed to prevent material build-up.
- 8.8 Periodic inspection of the rotating assembly should be made to detect any indication of weakening of the rotor because of corrosion, erosion, or metal fatigue. Where signs of dete-

rioration are found, lock out and tag out the impeller until the unit has been inspected and approved by a qualified consultant.

:)

imbalance which may lead to catastrophic failure of the fan or its components. Excessive vibration can also be caused by looseness in the drive train, loose fasteners, misalignment or impeller damage. Contact the fan manufacturer or other qualified consultant to determine the maximum vibration level if it is not included in maintenance instructions.

7.3 NOISE

7.3.1 Changes to the sound level may indicate maintenance is needed. Some unusual noises often heard include: bearing noise indicating the bearings need lubricant or replacement; scraping or ticking noise indicating the rotating parts are hitting the stationary parts; squealing indicating the belt drive needs tensioning; repeated changing pitch of the blower indicating operation of the blower at too low a flow. If any of these noises or any other unusual noises are detected, their cause should be determined and corrective action taken as necessary.

7.4 HIGH MOTOR TEMPERATURES

7.4.1 Check that cooling air to the motor has not been diverted or blocked by dirty guards or similar obstacles. Check the input amperage. An increase in amperage may indicate that some major change has occurred in the system.

7.5 HIGH BEARING TEMPERATURES

7.5.1 This condition is usually caused by improper lubrication; this can be either "over," "under," or "unsuitable" lubrication. In every case, if the cause of the trouble is not easily seen, experienced personnel should examine the equipment before it is put back in operation.

7.6 POOR PERFORMANCE

7.6.1 Too much flow or pressure or too little flow or pressure is often a symptom of a change in the operating system. A fan will typically operate at the same performance in a static system. Some typical causes include: operating of the fan backwards after maintenance procedures; filters dirty or not in place; change or blockage in the ductwork; change in speed of the fan (switching the sheaves); loss or failure of the impeller. All of these causes and many others will affect the flow and pressure produced by the fan.

8. ROUTINE MAINTENANCE

- 8.1 A preventive maintenance program is an important aspect of an effective safety program. Consultyour manufacturer or other qualified consultant with questions concerning changes observed during periodic inspections and routine maintenance.
- 8.2 The fan manufacturer's operating and maintenance recommendations, as well as the components manufacturer's instructions (such as motor, bearing, drives, etc.) should be strictly followed.
- 8.3 Maintenance should always be performed by experienced and trained personnel who are aware of the hazards associated with rotating equipment. Do not attempt any maintenance on a fan unless the fan power supply has been locked out and tagged out and the impeller has been secured.

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ITEM 143020 HYDRAULIC DRUM JACK OPERATION INSTRUCTIONS

For technical questions, warranty, and replacement parts, please call 1-800-556-7885.

For future reference, please complete the owner's record below.

MODEL	PURCHASE DATE
MODEL	I OKCHAGE DATE

It is important you that you read the entire instruction sheet to become familiar with this product before you begin using it.

The Hydraulic Drum Jack will handle drums 22 1/2-inch diameter, and up to 660-pounds.

Technical Specification

Capacity	660-pounds
Maximum Lift Height	14 ³ / ₄ -inches
Minimum Height	10 ½-inches
Overall Length	42 ½-inches
Overall Width	28 ¾-inches
Net Weight	143-pounds

Assembly and Operation Instructions

1. Subassembly

- a. Handle
- b. Hydraulic Pump
- c. Truck Body
- d. Wheels
- e. Saddle

2. Assembly

- a. Put Handle onto the handle bracket of Hydraulic Pump and press the piston down and adjust to align the holes so that the axle may be inserted through the Handle and the Handle Bracket. Note one end of the Axle has a relief. This relief should be inserted on the side drilled for a spring pin. Once the axle is inserted insert the spring pin to retain the axle.
- b. Place the Soscet Pin on the end of the chain into the Discharge Rod so that the nut rides on the bottom of the discharge rod.
- c. Remove the Oil Plug Screw on the top of hydraulic pump and replace with the vented screw from the parts package.

3. Inspection

- a. Check Wheels for free rotation
- b. Transit the handle up and down to activate the grappler and lifting cylinder.
- c. Pull the finger lever to release the lifting cylinder and grappler. Be sure the lift cylinder lowers before the grappler.

4. Operation

- a. Roll the drum jack to encompass the drum with the steel saddle.
- b. Transit the handle up and down to grasp the drum with the grappler.
- c. Continue to transit the handle until the drum rises off the floor.
- d. Transport the drum to desired location.
- e. To unload, slowly grasp the finger lever, holding until drum is lowered to the floor. Continue to hold the finger lever until grappler has released.
- f. With draw drum jack from the barrel.

Maintenance

- 1. Hydraulic Oil and Lubricating
 - a. The Hydraulic System uses an anti-wear hydraulic oil, 150-viscosity grade
 32. This oil should be changed with in the first 3 months, and every 6 months there after.
 - b. Lubricate the various friction points.

2. WARNING

- a. Do not over load. The load should not exceed 660 pounds
- b. Do not use the Jack on a slope
- c. Do not use the Jack over rough surfaces
- d. Never extend your foot under the Jack
- 3. General trouble shooting

Trouble

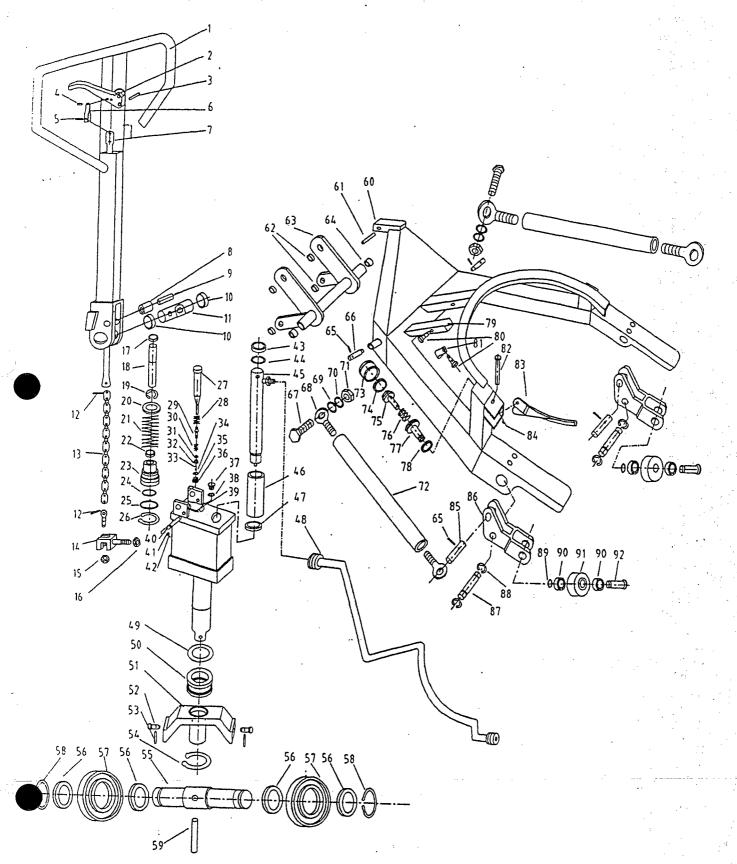
Drum Jack cannot be lifted

Reason
Low oil in hydraulic cylinder
Unloading plate or valve spindle
are out of adjustment.

Leaking Hydraulic Fluid

Worn or damage seal Oil pipefittings loose

Hydraulic Drum Jack Diagram



Hydraulic Drum Jack Parts List

	T				
No.	Description	Q'ty	No.	Description	Q'ty
1	Handle	1	47	UHS30 Dust Cover	1
2	Brake Handle	1	48	Oil Pipe	1
3	Spring Column Pin	$\frac{1}{1}$	49	Flat Washer	1
4	Spring Column Pin	1	50	Bearing	$\frac{1}{1}$
5	Spring Column Pin	$\frac{1}{1}$	51	Wheel Holder	$\frac{1}{1}$
6	Joint Slice	$\frac{1}{1}$	52	Shaft	1
7	Brake Rod	1	53	Spring Column Pin	1
8	Press Gide		54	C-ring ⊄ 50	- -
9	Shaft	1	55	C-ring ⊄20	-
10	Bushing	1	56	Bearing .	4
-11	Shaft	1	57	Wheel Holder	2
12	Soscet Pin	1	58	Wheel Shaft	$\frac{\overline{1}}{1}$
13	Chain	1	59	Spring Column Pin	$\frac{1}{1}$
14	Discharge Rod	2	60	Cart Holder	1
15	Nut M5	1	61	Spring Column Pin	1
16	Nut M6	1	62	Bushing	4
17	DH Oil Seal 20	1	63	Beam Assmbly	1
18	Lift Piston	1	64	Bushing	2
19	C-ring		65	Spring Column Pin	4
20	Flat Washer	1	66	Shaft	2
21	Spring	 	67	Hex Cap Bolt M12	2
22	UHS20 Dust Cover	1 1	68	Release ROD	4
23	Pump Cylinder	$\frac{1}{1}$	69	Flat Washer	$\frac{1}{2}$
24	O-ring $\angle 42 \times 3.5$	$\frac{1}{1}$	70	Spring Washer	2
$\frac{24}{25}$	O-ring ⊄ 42×3.5	1	71	Hex Cap Nut M12	2
$\frac{25}{26}$	C-ring (C-7)	1	72	Release Rod	2
<u></u>	Valve Core	$\frac{1}{1}$	73	Lift Piston Cylinder	1
$\frac{27}{28}$	Spring	+	74	DH50 Oil Seal	1
$\frac{20}{29}$	Valve Core	1	75	Piston Cover	1
30	Spring	1	76		1
31.		1	77	Spring Piston	$\frac{1}{1}$
32	O-ring ¢ 36×3.5 Valve Cover	1 1	78	Cir-nut M32	1
33	Steel Ball & 5	$\frac{1}{1}$	79	Support Board	$\frac{1}{1}$
34	Spring	$\begin{bmatrix} \frac{1}{1} \end{bmatrix}$	80	Cir-screw M4	2
35	O-ring ⊄20×3.1	1	81	Sheet Iron	1
36	Single Spring Seat	1	82	Shaft	1
37	Hex Cap Plug M10×1	1	83	Arc Clamp	1
3.8	Oil Seal		84		1
39	Spring Column Pin	1	85	Spring Shaft	2
40	Shaft	1	86	Wheel Holder	2
41	Flat Washer	$\frac{1}{1}$	87	Shaft	2
42	Flat Screw M5	$\frac{1}{1}$	88	C-ring	4
43	Oil Seal 30×42×7	$\frac{1}{1}$	89	C-ring	2
44	C-ring	1	90	Bearing Bearing	4
	7:A n:	 	30	Dearing	



1132 Air Park Dr. Aitkin, MN 56431 218-927-2200 800-428-9900 FAX 218-927-2333 Email: teemark@aitkin.com

AEROSOL CAN CRUSHER CARBON FILTRATION SYSTEM

The TeeMark Carbon Filtration System provides an economical method of collecting the VOCs and Propellants from the Aerosol Cans. This optional system attaches to the existing air filter cabinet, and does not require any additional floor space. Each Carbon Filtration System is equipped with two carbon filters. The first filter removes the VOC's and Propellants; the second filter will capture any vagrant gases that may escape the first filter.

A Breakthrough Detector is provided to determine when the charcoal filter has reached its saturation point. The detector is located between the two filters, and changes to a rusty brown color when the first filter has reached its saturation level. At this point, the top filter is removed; the bottom filter is placed in the top position, and a new filter is placed in the bottom location. Each time the filters are changed the Breakthrough Detector is discarded and a new detector is installed.

These filters are refillable. The side cover of the filter frame can be removed, the saturated carbon can be poured out and fresh carbon put in. Each of the filter frames require 45 pounds of carbon to refill. This carbon is available in bulk from 50-pound bags to 200-pound-drums.

The saturated carbon is handled as a hazardous waste. Your local waste contractor should be able to dispose of it for you. As an alternative, the company that provided the carbon filter may accept either the saturated carbon or the complete filter for disposal or renewal. They typically prefer to have the customer collect a substantial quantity of carbon or a number of filters before shipping them back to the distributor of the filters.

For additional information and prices on the Carbon Filtration System and its components, please give us a call on our toll free number.

CARBON FILTERS

The optional Carbon Filtration System offers an economical means to capture the Hazardous Air Pollutants emitted during the processing of Aerosol Cans.

This Carbon Filtration System is equipped with two Carbon Filters that measure 8-inches thick by 24-inches square. With in the cabinet, these filters are stack one above the other. The first filter collects the VOCs and Propellants while the second filter will capture any vagrant gases.

This system is equipped with a Breakthrough Indicator located between the two filters to monitor contaminant breakthrough. If the Breakthrough Indicator becomes a rusty brown color, the first filter has reached its saturation point.

Remove the side panel and replace the top filter with the bottom filter, and replace the Breakthrough Indicator.

Place the saturated filter on the floor, locate the end attached by screws. Remove the screws and dump the saturated carbon into an appropriate container for disposal. You will need to refill the canister with natural grain coconut shell activated carbon. This carbon may be purchased locally, or contact TeeMark Corp for replacement carbon.

After replacing the carbon and securing the end cap on the canister, place this filter in the bottom position, and replace the side panel.

Located on the front of the machine is a cycle counter to help track the number of cans you can process before your filter becomes saturated, be sure to log this number, and reset the counter.

The following pages have additional information on the Filter and Breakthrough Indicator.

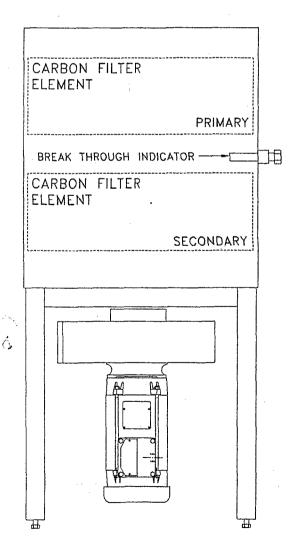
OPERATION AND MAINTAINENCE OF THE CARBON FILTRATION SYSTEM

CAUTION!

THE PRESENCE OF CERTAIN VOC'S WILL CAUSE
A HEAT BUILDUP WITHIN THE FILTER ELEMENTS.
UNDER THESE CONDITIONS THE BLOWER MUST BE RUN FOR
A MINIMUM OF ONE HALF HOUR AFTER PROCESSING.

The Carbon Filtration System consists of two Carbon Filter elements and a Breakthrough Indicator housed within the auxiliary cabinet located directly under the main bag filter cabinet. A Cycle Counter is also provided to track the number of cans processed. A single carbon element will adsorb the vapors from approximately 20,000 full std 12 oz. aerosol cans. As throughput approaches 15,000 cans the Breakthrough Indicator should be inspected at the end of each shift to monitor filter saturation.

Once the primary filter element has become saturated and will no longer adsorb processing vapors, the breakthrough indicator media will change from its original **purple** color to a **brown** color. At this point the primary filter element should be removed, the secondary filter element moved into the primary position, and a new element installed in the secondary position.



A new breakthrough indicator should be installed and the cycle counter reset to zero.

The filter element frames may be reused by replacing the saturated carbon with fresh carbon. The carbon is replaced by removing the side panel on the filter frame, dumping out the saturated carbon and pouring in the new carbon.

Each filter frame holds 45 lbs of carbon. New carbon is available in either 50 pound bags or 200 pound drums.

Contact the TeeMark corporation to obtain replacement carbon.

From this point the saturated carbon is handled as a hazardous waste and should be disposed of in accordance with local and federal regulations. Contact your local waste contractor for disposal.

Activated Carbon

Activated carbon's capacity to absorb odors varies with the concentration in the air, with humidity and temperature, and with the actual velocity used through the filter. Some of the contaminates listed in the table are specific chemical compounds, some represent classes of compounds, and others are mixtures of variable composition. The numbers given represent typical or average conditions and might vary in specific instances. The values in the table have been assembled from sources, including laboratory tests and field experience. In cases where numerical values were not available, the probable capacity was based on general experience. The table should be used as a general rule only. The capacity index has the following meaning:

- 4 HIGH capacity for all materials in this category. One pound takes up about 20% to 50% of its own weight, average about 1/3 (33 1/3%). This category includes most odor-causing substances.
- 3 SATISFACTORY capacity for all items in this category. These constitute good applications, but the capacity is not as high as for category 4. Absorbs about 10 to 25% of its weight, average 1/6 (16.7%).
- 2 SUFFICIENT capacity. Includes substances which are not highly absorbed, but which might be taken up sufficiently to give good service under the particular conditions of operation.
- 1 LOW capacity. Activated carbon cannot be satisfactorily used to remove these under ordinary circumstances.
- * Straight activated carbon does not have much capacity for some reactive gases, such as ammonia, formaldehyde, etc. In some cases, where the gas is chemically reactive, appropriate impregnated activated carbon can be recommended.

Acetaldehyde	2	Butyne	2	Detergents 4	
Acetic acid	4	Butyraldehyde	3	Dibromoethane 4	
Acetic anhydrite	4	Butyric acid	4	Dichlorobenzene 4	
Acetone	3	Camphor	4	Dichlorodifluoromethance 4	
Acetylene *	1	Cancer odor	4	Dichloroethane 4	
Acrolein *	3	Caprylic acid	4	Dichloroethylene 4	
Acrylic acid	4	Carbolic acid	4	Dichloroethyl ether 4	
Aerylonitrile	4	Carbon disulfide	4	Dichloromonofluormethane 3	
Adhesives	4	Carbon dioxide	1	Dichloronitroethane 4	
Air-Wick	4	Carbon monoxide	i	Dichloropropane 4	
Alcoholic Beverages	4	Carbon tetrachloride	4	Dichlorotetrafluoroethane 4	
Amines	2	Cellosolve	4	Diesel fumes 4	
Ammonia	2	Cellosolve acetate	4	Diethylamine 3	٠
Amyl acetate	4	Charred materials	4	Diethyl ketone 4	
Amyl Alcohol	4	Cheese	À	Dimethylaniline 4	
Amyl ether	4	Chlorine	3	Dimethylsulfate 4	
Animal Odors	3	Chlorobenzene	4	Dioxane 4	
Anestgetucs	3.	Chlorobutadiene	4	Dipropyl ketone 4.	
Aniline	4	Chloroform	4	Disinfectants 4	
Antiseptics	4	Chloronitropropane	4	Embalming odors 4	
Asphalt fumes	4	Chloropicrin	4	Ethane 1	
Auto exhaust	3	Cigarette smoke odor	4	Ether 3	
Bathroom smells	4	Citrus & other fruit	4	Ethyl acetate 4	
Benzene	À	Cleaning compounds	4	Ethyl acrylate 4	
Bleaching solutions	ġ.	Coal smoke odor	3	Ethyl alcohol 4	
Body ordors	<u>ă</u>	Combustion odors	3	Ethyl amine*	
Bromine	À	Cooking odors	4	Ethyl benzene 4	
Burned Flesh	Δ	Corrosive gases	3	Ethyl bromide 4	
Burned food	4	Creosote	1	Ethyl chloride 3	
Burning fat	Δ	Cresol	1	Ethyl chloride 3 Ethyl ether 3	
Butadiene	3	Crotonaldehyde	4	Ethyl formate 3	
Butane	2	Cyclohexane	4	Ethyl mercaptan 3	
Butanone	4	Cyclohexanol	Ä	Ethyl silicate 4	
Butyl acetate	4	Cyclohexanone	4	Ethylene*	
Butyl alcohol	4	Cyclohexene	4	Ethylene chlorohydrin 4	
Butyl cellosolve	4	Dead animals	4	Ethylene dichloride 4	
Butyl chloride	4	Decane	4	Ethylene oxide 3	
Butyl ether	4	Decaying substances	4	Essential oils 4	
Butylene	2	Deodorants	4	Eucalyptole 4	
	-		•	,	

BREAKTHROUGH INDICATOR

The Breakthrough Indicators are an affordable means to monitor contaminant breakthrough to determine when the saturated media needs to be replaced.

The Breakthrough Indicator is located in the Carbon Filtration Cabinet between the two Carbon Filters.

Upon installation of your Carbon Filtration System, the Breakthrough Indictor will have a purple color. When you have contaminant breakthrough, this purple color will change to a rusty brown. You will need to change the Activated Carbon in the filter and replace the Breakthrough Indicator.

Replacement Breakthrough Indicators may be purchased through TeeMark Corp.

			45	april Principal Control of the Control of
Exhaust fumes	3	Methyl formate	3	Putrescine
Female Odors	4	Methyl iodine	2	Pyridine
Fertilizer	· ·	Mothyl lookut to too		Partialine
	4	Methyl isobutyl ketone	4	Radiation products
Film Porcessing odors	3	Methyl mercaptan	4	Rancid oils
Fish Odors	4	Methylcyclohexane	4	Resins
Floral scents	4	Methylcyclohexanol	4	Reodorants
	-	Mathidayalahayana	·	
Fluorotrichloromethane	3	Methylcyclohexanone	4	Ripening fruits
Food aromas	4	Methylene chloride	4	Rubber
Formaldehyde*	2	Mildew	3	Sauerkraut
Formic*	3	Mixed odors	4.	Sewer odors
			•	
Fuel gases	2	Mold	3	Skatole
Fumes	3	Monochlorobenzene	4	Slaughtering odors
Gangrene	4	Moth balls	4	Smog
	•		•	Coops
Gralic	4	Naphtha (coal tar)	4	Soaps
Gasoline	4	Naphtha (petroleum)	4	Smoke
Heptane	4	Naphthalene	4	Solvents
	4	Nicotine	4	Sour milk
Heptylene		Nicourie		
Hexane	3	Nitric Acid*	3	Spilled beverages
Hexylene*	3	Nitro benzenes	4	Spoiled food stuffs
· Hexyne*	3	Nitroethane	4	Stale odors
licavital adam	. 4		2	Stoddard solvent
Hospital odors		Nitrogen dioxide*		
Household smells	4	Nitroglycerine	4	Stuffiness
Hydrogen	1	Nitromethane	4	Styrene monomer
Hydrogen bromide*	3	Nitropropane	4	Súlfur dioxide*
i iyulogen biomide		Milioproparie		
Hydrogen chloride*	2	Nitrotoluene	4	Sulfur trioxide*
Hydrogen cyanide*	3	Nonane	4	Sulfuric acid
Hydrogen fluoride*	2	Noxious gases	· 3	Tar
Hydrogen ndonde			4	
Hydrogen iodide*	3	Octalene	•	Tamishing gases*
Hydrogen selenide*	2	Octane	4	Tetrachloroethane
Hýdrogen sufide*	3	Odorants	4	Tetrachloroethylene
Income	4	Onions	4	Theatrical makeup odors
Incense	-			
Indole	4	Organic chemicals	4	Tobacco smoke odor
Inudustrial wastes	3	Ozone	4	Toilet odors
lodine	4	Packing house odors	4	Toluene
			4	Toluidine
lodoform	. 4	Paint odors		Title
Imitants	- 4	Palmitic acid	4	Trichlorethylene
Isophorone	4	Paper deteriorations	4	Trichloroethane
Isoprene	3	Paradichlorbenzene	4	Turpentine
				Urea
Isopropyl acetate	4	Paste & Glue	4	
Isopropyl alcohol	4	Pentane	3	Uric acid
Isopropyl ether	4	Pentanone	4	Valeric acid
			3	Valericaldehyde
Kerosene	4	Pentyhlene*	3	valericalderiyue
Kitchen odors	4	Pentyne*	3	Vamish fumes
Lactic acid	4	Perchloroethylene	4	Vinegar
	4		4	Vinyl chloride
Lingering odors		Perfumes, cosmetics		Virty Crionac
Liquid fuels	4	Perspirations	4	Volatile materials
Liquor odors	4	Persistent odors	4	Waste products
Lubricating Oils & Greases	4	Pet odors	4	Wood alcohol
Lubilouting Oils a circuscs		Phenol	4	Xylene
Lysol	4		4	Aylene
Masking agents	4	Phosgene	3	
Medicinal odors	4	Pitch	4	
Melons		Plastics	4	5
	À			
	4		2	
Menthol	4	Poison gas	3	
Menthol			3 3	
Menthol Mercaptans	4	Poison gas Pollen	3 3	
Menthol Mercaptans Mesityl oxide	4	Poison gas Pollen Popcom & candy	3 3 4	
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Smokemaster ® M69 CARBON MODULE

PESIGNED FOR A VARIETY OF GASEOUS/NON-PARTICULATE ONTAMINANTS/ODORS

Specifications:

Module Dimensions:

14"L x 271/8"H x 261/4"W

Weight:

141 lbs (carbon filter loaded)

Cabinet:

16 gauge welded steel cabinet with baked enamel textured

coated finish.

Filter:

45 lbs of natural grain,coconut shell activated carbon in a

galvanized refillable canister.

Filter Dimensions:

7⁷/₈"L x 23⁵/₈"H x 23⁵/₈"W

Filled Filter Weight:

86 lbs (carbon loaded)

Filter Capacity:

1000 CFM

er Resistance:

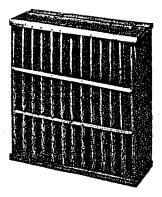
.22" WG

Filter Adsorption Capacity:

35-45% carbon tetrachloride

ASTM D-3467.





45 lbs of activated carbon provided in a refillable canister for use in the SMOKEMASTER M66 air cleaner and M69 Carbon Module.

Air Quality Engineering Inc. has a policy of continuing product improvement and reserves the right to make changes in design and specification without notice.

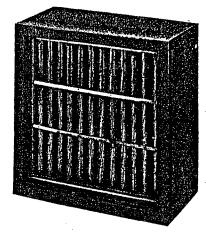
SMOKEMASTER®

Quality Engineering, Inc.

3340 Winpark Drive, Minneapolis, Minnesota 55427-2083 USA Telephone: (612) 544-4426, FAX: (612) 544-4013

Toll Free: 1-800-328-0787

8/92 Printed in U.S.A.



Designed for induct placement or use with SMOKEMASTER F66/M68 air cleaners.

MODULE INCLUDES:

- REFILLABLE CARBON FILTER
- HINGED MODULE ACCESS DOOR
- COMPACT DESIGN ADDING ONLY 14 INCHES TO THE LENGTH OF THE SMOKEMASTER F66 OR M68 AIR CLEANERS

METRIC CONVERSION	FORMULA
Ins. to mm	Ins. x 25.4
Lbs. to kgs.	Lbs x .455
Ins. w.g. to kPa	Inc. w.g. x .2488
CFM to M³/h	CFM X 1.6992
Ft' to m'	Ft ² x .0929



FAN SELECTION And PERFORMANCE

Your Cincinnati Fan Representative:
Tom Ringgenberg
Air & Powder Products, LLC
6248 Lakeland Ave. N. Suite 208
Brooklyn Park MN 55428
763 533 5854 Phone
763 533 5291 Fax
tomningg@air-powder-prod.com

Thursday, March 14, 2002

Job Name: Reference:

Operating Requirements

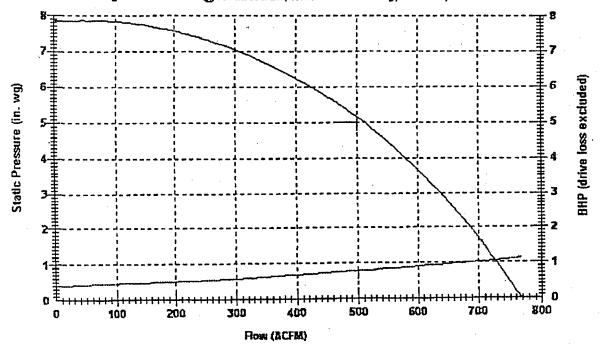
Volume, ACFM	500	
Static Pressure, in, W.G	5.0	
Density, lb./ft.3	0.0750	
Operating Temperature, *F	70	
Site Altitude, ft. ASL	0	
Relative Humidity, %	0	
Specific Gravity	1.000	
Inlet Pressure, in. W.G.	0.0	
AMCA Arrangement No.	#4 (Direct)	
Motor Frequency, Hz	60 `	
Start-Up Temperature, *F	70	
	•	

Fan Selection and Specifications

Model	PB-10A
Fan RPM	3,450
Wheel Description	Cast Alum. 11 X 3 BC
Wheel Width, %	100%
Wheel Diameter, in.	11.00
Inlet Diameter, In.	6.00
Outlet Velocity, ft./min.	3,666
Fan BHP	0.80
Static Efficiency, %	49.3%
Cold Start BHP	0.80
Construction Class	N/A

Performance Graph

Cincinnati Fan PB-10A Cost Alum. 11 X 3 BC Wheel (Full Width) @ 3,450 RPM Rating Point: 500 ACFM @ 5.0 in. WG SP, 0.0750 lb.at. 3 Density, 0.80 BHP, 8.0 in. Inlet



CFSWin Version: 3.0.21

Database Version: 3.0.17

Cincinnati Fan Selector - Copyright © 2001 by Cincinnati Fan and Ventilator Co. All Rights Reserved

Pages (incl cover): 1

From: David A. Ainsworth

CAMERON CARBON INC

P.O. Box 18810 Baltimore MD 21206 U.S.A.

Tel: +1(410) 931-0305 Fax: +1(410) 931-0307

ACTIVATED CARBON & RELATED TECHNOLOGY

Facsimile Transmission

Date: Friday, February 06, 2004

Time: 2:40 PM

TeeMark Corporation To:

Phone: 800-428-9900

Attn: Gerry Delancy

Fax:

218-927-2333

Subject: Carbon Filter efficiency

Good afternoon Gerry:

Further to our recent phone conversations

The efficiency of a carbon filter is essentially a function of EBCT (Empty Bed Contact Time). Whereas, saturation capacity is fixed and dictated by quantitative chemistry. specific to each individual contaminant component. Thus, a carbon filter has a finite saturation capacity for specific compounds how quickly that capacity is realized is a function of efficiency. A poorly designed filter will have low efficiency (short EBCT) and thus will not reach saturation capacity as quickly as would a filter operating with a longer EBCT. Essentially, contaminants must have time to allow the kinetics of adsorption to take place.

Most HVAC-style carbon filters, such as the type your company employs in your systems typically show a minimum of 80% efficiency quite often mid-90's % efficiency on a single-pass basis. Whereas, so-called "deep bed" carbon filters typically operate at 99% efficiency or better. Deep-bed filters have significantly more mass of carbon per unit air flow than HVAC-style filters (i.e. deep-beds provide significantly higher EBCT). The overall efficiency of HVAC-style filters can be increased by operating with multiple passes of the air or using two or more filters in series.

I trust that the above is of assistance, please give me a call if I can be of further assistance.

Best regards,

David

^{**} Visit our Web Site http://www.thomasregister.com/cameron **

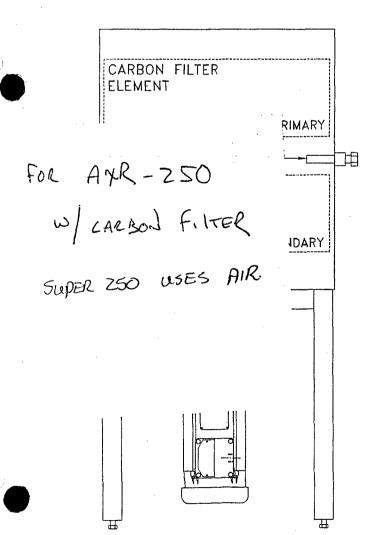
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The Carbon Filtration System consists of two Carbon Filter elements and a Breakthrough Indicator housed within the auxiliary cabinet located directly under the main bag filter cabinet. A single carbon element will adsorb the vapors from approximately 20,000 full standard 12 oz. aerosol cans. As throughput approaches 15,000 cans the Breakthrough Indicator should be inspected at the end of each shift to monitor filter saturation.

Once the primary filter element has become saturated and will no longer adsorb processing vapors, the breakthrough indicator media will change from its original **purple** color to a **brown** color. At this point the primary filter element should be removed, the secondary filter element moved into the primary position, and a new element installed in the secondary position. A new breakthrough indicator should also be installed.



The filter element frames may be reused by replacing the saturated carbon with fresh carbon. The carbon is replaced by removing the side panel on the filter frame, dumping out the saturated carbon and pouring in the new carbon.

Each filter frame holds 45 lbs of carbon. New carbon is available in either 50 pound bags or 200 pound drums.

Contact the TeeMark corporation to obtain replacement carbon.

From this point the saturated carbon is handled as a hazardous waste and should be disposed of in accordance with local and federal regulations. Contact your local waste contractor for disposal.

CRUSHING/RECYCLING EQUIPMENT

TEEMARK CORPORATION manufactures explosion proof paint can, pail and drum crushers with up to 150,000 pounds of crushing force. Our can, pail and aerosol crushers open and empty full containers and capture the contents for recycling or disposal. Self contained and portable packages are available. For more information about any of our crushers, please use the above toll free telephone number or visit our web site which is also listed above.

Explosion Proof Paint Can Processors with 30,000 pounds of crushing force

The <u>Super 6PJ-VC</u> is the flagship of our Can Crusher Line. This model offers versatility, productivity, and safety. The Super 6PJ-VC opens, empties, crushes, and ejects containers from ½-pint to 6-gallon and <u>aerosol cans</u>. VOCs and propellants are collected and delivered to a five inch duct for handling in accordance with local codes.

The <u>Super 6PJ</u> offers the same features as the Super 6PJ-VC, but is not equipped with a Vapor Control Package so it does not process Aerosol Cans.

Our Super 6P opens, empties, and crushes 1/2-pint to 6-gallon containers.

The <u>Super 6</u> crushes open ½-pint to 6-gallon containers.

The <u>PCC1</u> opens, empties and crushes one-gallon paint cans for recycling or disposal.

The <u>PCC1J</u> is like a PCC1 that automatically ejects the crushed can into a collection container.

Explosion Proof Super Aerosol Can Crushers

Our <u>250</u>, <u>450</u>, and <u>800</u> Super Aerosol Can Crushers open, empty, and crush aerosol cans while collecting can content to keep VOC's, propellants, and vapors out of the work area and the environment. Their names reflect their hourly throughput.

TeeMark Drum Crushers and Packer/Crushers

The <u>DC55</u> uses 37,000 lbs. of force to flatten standard 55-gallon drums down to 5", 8,050 The <u>DPC60</u>, crushes drums and packs waste into drums with 60,000 pounds of force.

Our <u>DPC85</u> crushes drums and compacts waste into drums with 85,000 pounds of force.

The <u>DPC150</u> has 150,000 pounds of force for those really tough crushing jobs.

12/19/03



TEEMARK CORPORATION

Model PCC1J-X

EXPLOSION PROOF ELECTRIC PRODUCTION CAN CRUSHER

With Can Ejector Option

CARE & USE INSTRUCTIONS

SERIAL NO.	10283	
DATE MFG.	7/99	



PCCIJ PAINT CAN CRUSHER WITH CAN EJECTOR

rushes and ejects
ne-gallon cans!

Typically empty y EPA definition.

No need to emove lids from ne-gallon cans.

YDRAULICS

ipeed hydraulic pump ovid 30,000 pounds of ushing force.

ECYCLE CHECK DW AVAILABLE!

is option sorts out crushed ns that retain too much int for recycling.



PCC1J AUTOMATICALLY EJECTS CRUSHED CANS & PAILS

One-gallon cans are crushed and ejected by the PCC1J. Ejection system proven on millions of cans.

SAFE, EXPLOSION PROOF

Units will not operate with door open. These crushers are completely explosion proof and are suitable for use with solvent based paints and other flammable liquids.

RESULTS!

With no need to remove lids, PCC1J crushers can process 300 cans per hour. Leaving the lids on also reduces labor costs and the risk of personal injury.

eeMark PCC1J SPECIFICATIONS

RUSHING FORCE: 30,000 pounds RUSHING CHAMBER: one gallon YCLE TIME: 10 seconds or less OWER SYSTEM ALTERNATIVES:

• 1-1/2 hp* 115/230V 1 Ph 20/10A w/starter, 10 sec cycle

• 3 hp* 208-230/460V 3ph 11-10/5A w/o starter, 6 sec cycle *Explosion Proof Class 1, Group D

• 1-1/2 hp 80 psi Air @ 40 SCFM, 10 sec cycle

EJECTION SYSTEM: Requires 80 psi air from 1/4 inch air

line or a one-horse compressor

DIMENSIONS:

37"w x 37"d x 90"h

CLEARANCE UNDER STAND:

41″

APPROXIMATE SHIPPING WEIGHT:

1160 lbs.

WARRANTY: 1 year on all materials and workmanship

half pints to 110 gallons, TeeMark Crushers help prepare containers and their contents for recyling or disposal.

EXPLOSION PROOF ELECTRIC PRODUCTION CAN CRUSHER

Model PCC1J-X With Can Ejector Option

INITIAL START UP

Congratulations on choosing a **TeeMark PCC1J-X Production One Gallon Can Crusher**. Your crusher has been thoroughly tested before leaving the factory.

ASSEMBLY

Follow the instructions on the assembly diagram to mount the crusher, drip pan, and stand. The crusher can be lifted by the lifting eye on the top of the cylinder. It weighs about 900 pounds.

The assembled unit is somewhat top heavy so we recommend that the stand legs be properly anchored to the floor using 3/8" anchor bolts. There is enough clearance under the stand for a 55 gallon drum on a standard 2 inch roller conveyor or drum dolly.

ELECTRICAL CONNECTION

The explosion proof motor, motor controls, and connections on your PCC1X-J are UL listed and CSA certified for Class 1, Group D, Hazardous locations. Forty feet of rubber electrical cord is supplied without an end connector. It is up to the purchaser to install the equipment to comply with the appropriate local and national electrical codes.

The motor is 1-1/2 hp, 115/230 VAC 16/8 FLA single phase. Thermal protection is built into the motor and resets automatically.

*** CAUTION ***

THE MOTOR HAS AUTOMATIC THERMAL PROTECTION.
AFTER A TRIP IT WILL RESTART WITHOUT WARNING.
DO NOT PERFORM MAINTENANCE WITH THE POWER ON.

The motor is connected for use with 115 volts from the factory unless arrangements were made prior to shipping. A minimum 20 amp service should be used to avoid nuisance tripping of the circuit breaker.

See wiring diagram for conversion to 230 VAC.

INITIAL START UP - continued

HYDRAULIC FLUID

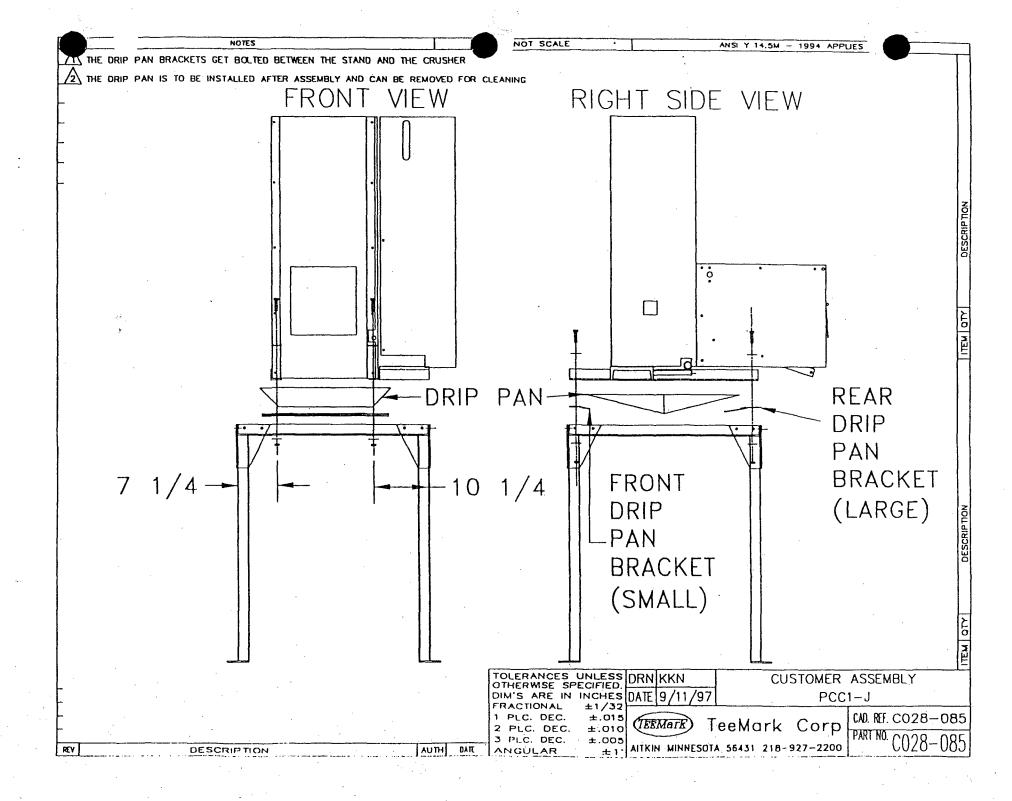
The hydraulic reservoir should be kept full to within 1 inch of the top of the tank when the ram is fully raised. Use a premium grade antiwear hydraulic iol, 150 viscosity grade 32 (e.g. Mobile #DTE24 or equal). This is the same antiwear hydraulic fluid that is typically used in farm tractors and dump trucks. It should be available in auto supply stores. Total fluid capacity is 3-1/2 gallons. Oil should be at a level that is visible in the temperature sight gauge throughout the complete ram cycle.

OIL FILTER

A standard 20 GPM 10 micron cellulose oil filter is used to filter the hydraulic oil. It should be changed after the first 100 hours of operation or 2 months, whichever comes first, then every 500 hours of operation thereafter.

VALVE SETTINGS

The pressure relief valve and squeeze (detent) pressure have been preset at the factory for optimum performance. **DO NOT INCREASE THESE SETTINGS** as this will exceed the capacity of the equipment and cause damage. Lowering the squeeze valve detent pressure below the factory setting of 3000 psi is permissible. See **DETENT ADJUSTMENT** instructions.



OPERATING INSTRUCTIONS

ONE GALLON CAN CRUSHING

Pull the **"STOP"** button to start the motor of the PCC1X Production Can Crusher. As a safety feature, the hydraulic power will not run when the door is open.

*** CAUTION ***

ALWAYS TURN THE POWER OFF WHEN SERVICING THE CRUSHER OR WHEN NOT IN USE.

Place an open topped 55 gallon drum or other container under the crusher to collect the liquid extracted from the cans. There is enough clearance to position the drum on a 2 inch roller conveyor.

Place the can to be crushed into the crushing chamber until it contacts both locating stop pins. This centers the can for proper piercing and crushing.

Swing the door shut and pull the two hydraulic valve handles toward you until they reach the detent position and lock in place. The crushing cycle will begin. The PCC1 has two piercers that slit the sidewall of the can as it is crushed.

At the bottom of the stroke the ram automatically stops and returns to the up position. If the door is opened at any time during the cycle, the ram will stop. The ram can be manually retracted by throwing the left valve handle to the neutral position.

If the valve handles are not returning automatically or if they return too soon, see the **DETENT ADJUSTMENT** instructions.

SMALLER CANS

Cans smaller than one gallon may also be crushed in the PCC1 but they will not be pierced. To crush smaller cans, place the can in the center of the chamber and proceed as above. Since small cans are not pierced they may rupture with a popping sound. The cabinet is designed to contain the spray when this happens.

CANS WITH SEMI-SOLID CONTENTS

The PCC1 is designed to handle the nastiest of contents. All but the driest, hardest material will be squeezed from the can.

PIERCER SHARPENING AND ADJUSTMENT

Each piercer is attached with two bolts. They can be removed and sharpened with a power grinder or sander.

CAN EJECTOR OPTION

system that interlocks with the operating system of the crusher. The primary features of the ejector are a pneumatic cylinder, a can "tosser", and a door in the rear of the unit that opens to allow the crushed can to be ejected. Compressed air is used to dislodge the can from the ram after crushing is completed. This blast of air prevents the can from sticking to the crusher face.

AIR REQUIREMENTS - Electric PCC1 units with the ejector option need a ¼ inch air line for the ejector. Air volume requirements are minimal and can be provided by a ¾ hp compressor. The air line should be equipped with a dryer and oiler that is set to provide one drop of oil every ten crusher operating cycles.

OPERATION - The ejector must be connected to a supply of compressed air and the air valve must be opened to provide power to the ejector air cylinder.

If a can is not crushed completely, or gets hung up inside the machine, the operator may need to remove the can by hand. Air pressure to the ejector system is cut off and vented when the operator opens the main door of the crusher. With the main door open, the ejector arm and the ejector door at the rear of the crusher can easily be moved by hand to free a stuck can.

SMALLER CONTAINERS - The ejector is designed for one gallon cans. The crusher is also very effective on smaller cans and oil filters but the ejector should be turned off when they are crushed. When crushing of small containers is finished, the ejector air supply should be turned back on and the crusher should be cycled 2 or 3 times to clear wet paint from the air jet holes in the crusher face.

*** CAUTION ***

KEEP HANDS FREE OF THE CRUSHING CHAMBER AND REAR EJECTION CHUTE WHENEVER THE MACHINE IS CYCLING. In the event of a jam or malfunction, be certain all power is off before clearing.

THE PROTECTIVE SHIELD ON THE EJECTION CHUTE MUST BE IN PLACE WHEN THE CRUSHER IS OPERATING.

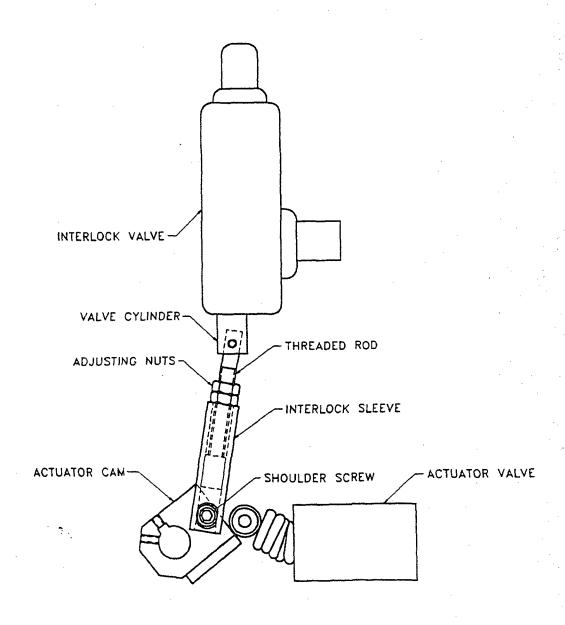
WHEN THE CRUSHER IS OPERATING.

Cans are ejected from the crusher with considerable force and speed.

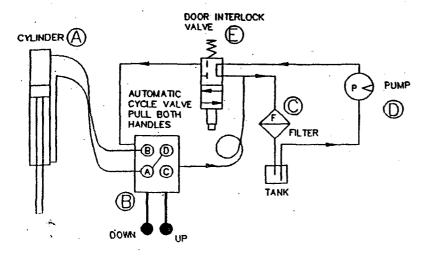
DOOR INTERLOCK VALVE AND LINKAGE

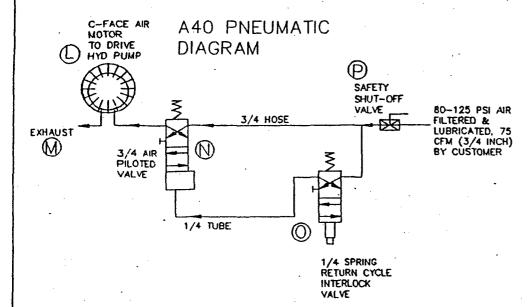
The safety door interlock valve is a hydraulic valve installed so the crusher cannot operate when the door is open. This interlock valve is adjusted at the factory. This valve can come out of adjustment after a lot of use. If this valve comes out of adjustment then your crusher will not cycle.

To adjust the door interlock valve you must adjust the door interlock linkage. You adjust the linkage with the two adjustable nuts on the threaded rod. (See drawing below.) Use two 9/16" wrenches to break the nuts apart. Now adjust the adjusting nuts down so when you close the door the valve cylinder moves up a ¼". The valve cylinder is the silver part connected to the top of the threaded rod. Start the machine and try cycling it. If the machine cycles tighten the nuts together. If the machine doesn't cycle move the bottom nut down 2-3 turns and try cycling it again. If the machine still won't cycle call TeeMark at 800-428-9900 for help.

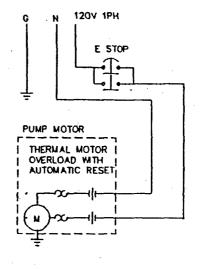


HYDRAULIC POWER SUPPLY WITH HYDRAULIC DOOR INTERLOCK VALVE



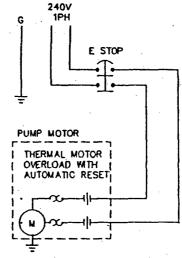


1 PH ELECTRICAL DIAGRAM CLASS 1 GROUP D EXPLOISION PROOF



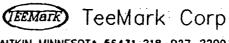
WRING DIAGRAM
120 V 1 PH
MODELS W/ HYD
DOOR INTERLOCK
MODELS SUPER 6-X,
SUPER 6P-X, PCC1-X

NOTE:
THE MOTOR IS WIRED
FOR 120V FROM THE
FACTORY UNLESS
NOTED OTHERWISE.
MOTOR WREING MUST
BE CHANGED TO RUN
ON 240VAC 1 PH



WRING DIAGRAM 240 V 1 PH MODELS W/ HYD DOOR INTERLOCK MODELS SUPER 6-X, SUPER 6P-X, PCC1-X

NOTE:
THE MOTOR IS WIRED
FOR 120V FROM THE
FACTORY UNLESS
NOTED OTHERWISE.
MOTOR WREING MUST
BE CHANGED PER
MOTOR PLATE AND AS
SHOWN FOR 240VAC OPERATION.



AIR, HYDRAULIC, ELECTRIC SCHEMATICS MODELS SUPER 6, 6P, & PCC1 CanDoo!

CAD CXRSCHEM NO SK5030601

AITKIN MINNESOTA 56431 218-927-2200

TEEMARK CORPORATION

WARRANTY

TeeMark manufactured products are warranted free of original defects in material and workmanship for a period of one year from the date of shipment to first user.

TeeMark's obligation is to repair or replace free of charge any part that its inspection shows to be defective. Except as it may otherwise specifically agree in writing, TeeMark shall not be liable for transportation, labor or other charges for adjustments, repairs, replacement parts, or other work which may be done upon or in connection with such products. TeeMark shall not be liable for loss of time, manufacturing costs, removal and installation costs, loss of profits, consequential damages, direct or indirect, because of defective products, whether due to rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Written permission for any warranty claim repair or return must be first obtained from authorized TeeMark personnel. Any part or parts of a product to be repaired or replaced under this warranty must be returned to the factory f.o.b.

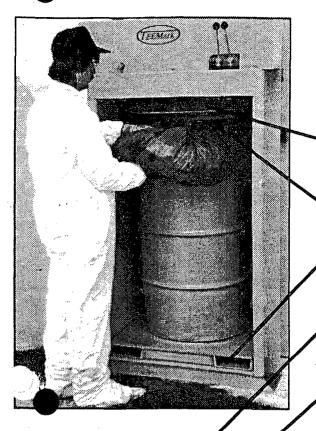
Any modification to any TeeMark product without TeeMark's prior approval and consent, is at the user's sole risk and responsibility. TeeMark disclaims any and all liability, obligation, or responsibility for the modified product and for any claims, demands, or causes of action for damage or for personal injuries resulting from the modification and/or use of such a modified TeeMark product.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(This warranty voids all previous issues.)
(Effective Date: January 1, 1996)

DRUM CRUSHERS, WASTE COMPACTORS

Disposal of one drum of hazardous waste can cost up to \$1,000! Compaction can reduce disposal volume and cost by 30-80%.



TeeMark manufactures a variety of drum crushers and drum packer/crushers. Our packer/crushers use up to 150,000 pounds of adjustable hydraulic force to crush drums as large as 110 gallons. They also pack waste material into drums. Special waste management features and/or options on these units include:

DRUM HOLD DOWN

Holds drum in place while compaction head is withdrawn from drum.

COMPACTION HEAD

Reaches into drum, forcing materials to the bottom.

REMOVABLE PALLET

Fork lift pockets in pallet allow easy handling of full drums.

LOCKABLE DOOR CHUTE

Allows material to be added to the collection drum without opening main door.

EXPLOSION-PROOF CONTROLS

Explosion-proof controls are standard and explosion-proof motors and motor controls are available.

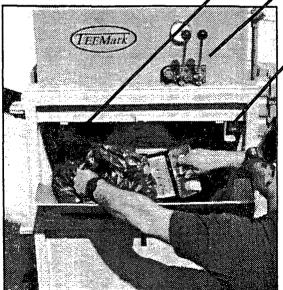
INTERLOCK SAFETY

Door chute and main door are both equipped with safety interlocks. Unit will not operate while either door is open.

With the easily-attached crushing head in place, and up to 150,000 pounds of crushing force, these units can turn those drum liabilities into assets. Clean crushed drums are recyclable, and are a valuable commodity in the scrap market.

For more information, call us:

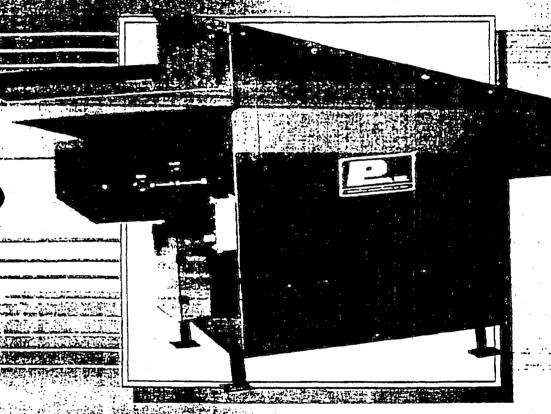
TOLL FREE 800/428-9900





1-800/428-9900 home page: http://aitkin.com/teemark FAX 218/927-2333 • e-mail: teemark@aitkin.com From half pints to 110 gallons, TeeMark Crushers help prepare containers and their contents for recycling or disposal. See other side for **can crushing** information.

CAN & GLASS CRUSHER



Rated capacities of Model 270

2500 lbs. of Aluminum cans per hour 5000 lbs, of Steel cans per hour

Safety engineered throughout

Factory direct parts and service.

Overload compression springs to prevent

jamming.

Model 270 will crush cans and glass up to and including 5 gallod

A proven PRODEVA performer in our line for over 34 years. Unit is ideal for can manufacturers, recycling centers, bottlers and breweries. In fact anywhere glass containers, beverage cans or food containers are a problem. Model 270 is user friendly; easy to maintain and requires no change in machine set-up to crush cans or glass. Built for hard use and trouble-free operation with minimal maintenance or up-keep. Backed by PRODEVA's proven experience in manufacturing quality size reduction equipment.



Constructed of 3/8" steel plate

10 HP 230/460/60/3

Infeed and discharge conveyors are available

All moving parts enclosed

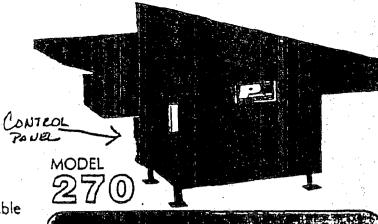
Removable side panels for easy maintenance

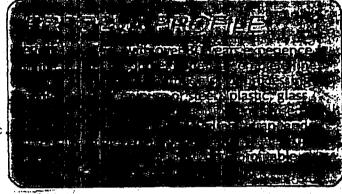
Crushes glass into recyclable cullet

Flattens cans, and crushes plastic bottles

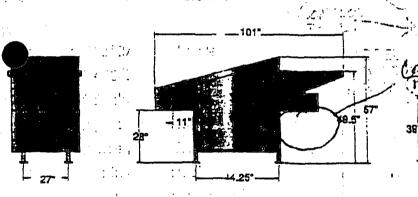
Available with casters

Available with blowers for alluminum and bi-metal cans





STANDARD SPECIFICATIONS



Overnight Pails Service Call 1 non-sim \$2.1



END VIEW

SIDE VIEW

TOP VIEW

1 Year Written Warranty

All Prodeva brand equipment carries a warranty on workmanship and materials, provided equipment is used for its intended use and maintained properly.

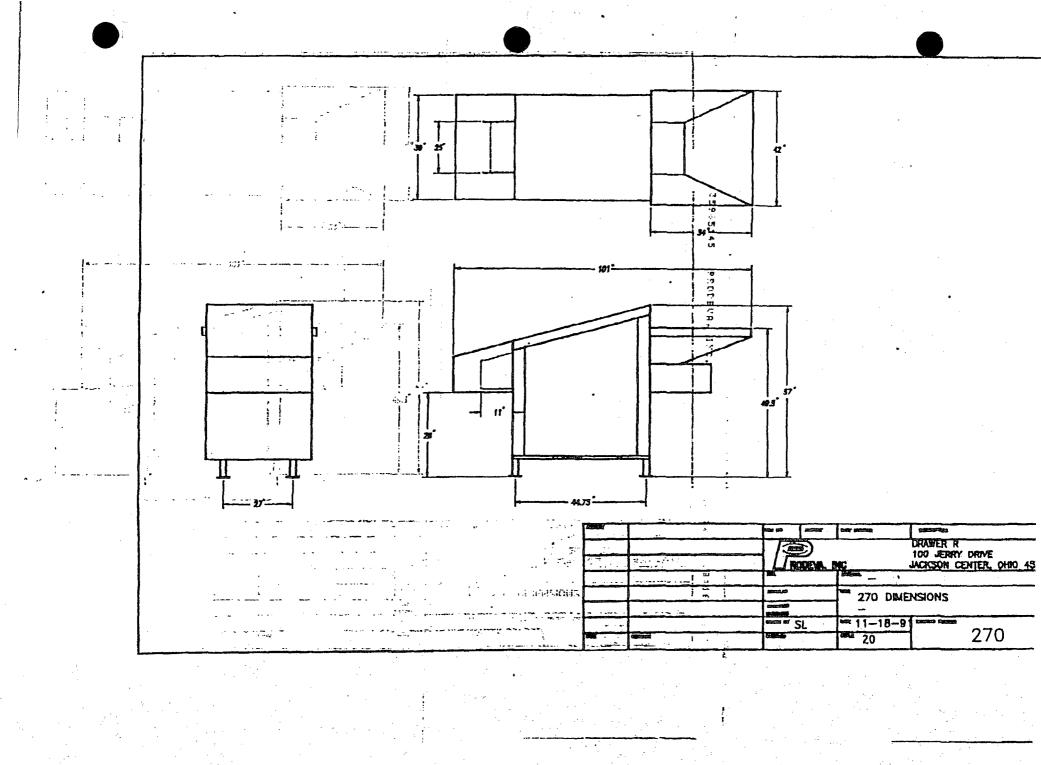
We reserve the right to repair or replace parts at our option. Ask for further details, Prodeva, Inc., also, reserves the right to improve or alter products without prior notice.

Call Prodeva for help or further information

Should you have any questions about the above Model's operating features and its suitability for your needs.



100 Jerry Drive, Jackson Center, Ohio 45334 Phones: 1-800-999-3271 FAX 513-596-5145 513-596-6713



MANUAL OF INSTRUCTIONS FOR MODELS 250 & 270 PRODEYA CRUSHERS

Prodeva Model 250 or 270 Crusher has been thoroughly tested to the rigid specification of all "Prodeva" products. By following these simple you will have a trouble free unit for many years to come.

[CAL:

Make the electrical connections to the magnetic starter with the proper sized wire for the full load current of the motor. Be sure the voltage supplied to the machine is the same voltage that is indicated on the nameplate. If the conveyor runs backward, when the Forward button is depressed, reverse any two leads in the starter.

ABLE RESTRICTOR:

Set the opening above the conveyor (on the hopper end) high enough to permit an even flow of material through the crushing area of the machine. Too much material going through the machine at one time will jam the unit.

ABLE CRUSHER PLATE:

All Model 250's & 270's are equipped with an adjustable crusher plate. This new feature permits you to set the discharge opening to the desired height. To adjust the discharge opening remove the bolts that hold the shaft to the crusher plate and add shims for less opening. Do not flatten material any more than necessary, as this puts an undue load on the machine.

OR CLUTCH:

The conveyor clutch located at the discharge end of the conveyor should be tightened just tight enough to carry the load through the machine. The conveyor chain MUST BE ABLE TO STOP WHEN UNDER LOAD, and the crusher plate is in the down position. This means there will be intermittent stop-start of the conveyor chain when the clutch has the proper tension.

OR CHAIN:

The conveyor chain should have approximately 1-1/2" of SAG on the bottom side. To adjust the conveyor, loosen the lock nut on the adjusting screw on the conveyor take-up unit. The take-up units are located at the hopper end of the crusher.

:ATION:

Remove the side covers of the machine and grease the bearings at least once a month. The bearings in the drive arms should be greased at least every ten (10) hours. The oil in the Gear Reducer should be changed every six (6) to eight (8) months or (2500) operational hours. Fill with SAE 140 Gear Oil.

IL OVERLOAD PROTECTION:

When the machine is overloaded or jammed the motor will automatically shut off. The motor and controls are protected by Thermal Overload Heater Coils, located in the Magnetic Starter. In the event the motor does shut off, correct the cause of the overload and wait a few minut, until the starter has cooled, then the starter can be re-set by depressing the reset button located in the cover of the Magnetic Control.

ING:

When liquids are to be run through the crusher, leveling bolts should be used. The hopper end of the crusher should be slightly higher than the discharge end to insure proper drainage of the liquid.

CTIVE HINGED COVER:

When crushing glass, filled cans and aerosols, the hinged cover located at the discharge end of the crusher MUST be in the closed or down position for protection against splashing of liquids and flying fragments of glass.

ING:

When crushing cans or bottles with the contents the crusher should be cleaned at the end of the day with hot water, steam or a commercial solvent. The crusher chamber is sealed so that the machine can be cleaned in this manner. Care should be taken - DO NOT DIRECT A WATER SPRAY AT THE ELECTRICAL CONTROLS!

NG: No solid material such as blocks of wood, iron bars, etc., should be fed into the crusher. This may cause damage to the crusher.

luorescent . pp Disposer

ith MERCURY **APOR CONTROL**

r a safer, faster and more efficient y in lamp disposal maintenance.

TURING...a new exclusive, patented filter system that s toxic mercury vapor gases in a disposable filter cartridge.

sposes of 4 & 8-ft, lamps T-12, 40 and 90 watt sizes.

eds 25, 4-ft. lamps per minute.

lescoping feed tube

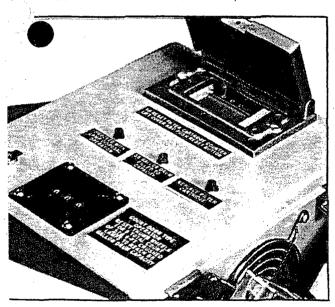
tally houses a 4-ft. lamp before it is crushed.

igh filter cartridge efficiency rate. andles up to 2400 mixed 4 & 8-ft. lamps before nanging filter cartridge.

uilt to withstand impact and abrasion, signed for heavy-duty use.

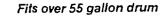
andling weight 40 pounds thout filter carriage.

1. & CSA approved electrical components.



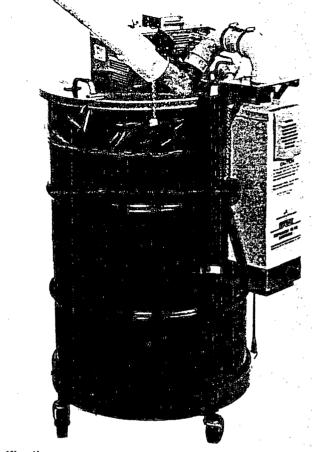
Dextrite LC-55FDA Disposer includes a Predetermined er) Counter featuring automatic motor shut-off when a ory preset count of 2400 mixed 4 & 8-ft. lamps have been osed of. A push button reactivates motor, resets counter new count-up operation. A red and green Neon Lamp, a Buzzer Alarm, alerts operator to change filter cartridge when to proceed with lamp disposal operation, A Fan

arist is controlled by ON/OFF Toggle Switch. 'etermined (Drum) Counter features Thumb Wheel 🐸 down operation, with amber Neon Lamp and to alert operator when 55 gallon drum is filled to



(Holds 576 4-ft. Crushed Lamps). Unit does not include 55 gallon drum.

Dolly is optional.



Specifications

LC-55FDA	
2½" dia.; Feed Tube Insert 15%" dia.	
Predetermined, Push Button Reset. (Count-Up Operation)	
Predetermined, Thumb Wheel Reset. (Count-Down Operation)	
24" x 24" dia. x 4"H	
40 Lbs. Handling Weight (Without Filter Carriage)	
115V, 60 Hz	
Part No.: F-55 ps)	
PS-55 e	
D-55	

Specifications subject to change without notice.

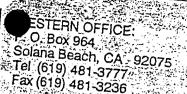
DISTRIBUTED BY

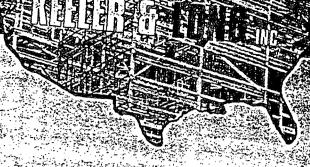


Dextrite, Inc.

P.O. Box 18426, Rochester, N.Y. 14618 • (716) 436-7015

acity.





HEADQUARTERS P.O. Box 460 856 Echo Lake Road Watertown, CT- 06795 Tel (203) 274-6701 Fax (203) 274-5857

KOLOR-POXY PRIMER/SEALER No. 5129

GENERIC TYPE: EPOXY/AMIDO-AMINE

PRODUCT A 100% solids, two component, non-pigmented epoxy DESCRIPTION: primer/sealer.

RECOMMENDED USES: Designed to seal rough, etched, or blasted concrete surfaces. NOT RECOMMENDED

Patching holes or cracks.

COMPATIBLE Kolor-Poxy Self-Leveling Floor Coating TOPCOATS:

Kolor-Poxy Self-Priming Surfacing Enamel Kolor-Poxy Primers and Enamels

Hydro-Poxy Primers and Enamels Vinyl-Latex

Kolormastic

Tri-Polar Silicone Enamels

Kolor-Sil Enamels Poly-Silicone Enamels

Solids by Volume: CHARACTERISTICS: Solids by Weight: 100% Recommended 100%

Dry Film Thickness: 1.5 - 2.5 mils

Theoretical Coverage: 800 Sq. Ft./Gallon @ 2.0 mils dft Finish:

Available Colors: Clear Amber

Drying Time @ 72°F

To Touch: 12 Hours To Handle: 12 Hours To Recoat: 12-24 Hours OC Content: 0.0 Pounds/Gallon

0.0 Grams/Liter

January, 1991

TECHNICALIDATA

PHYSICAL DATA:

Weight per gallon:

Flash Point (Pensky-Martens)

Pot Life @ 72°F:

Temperature Resistance:

Viscosity @ 77°F: Gloss (60° meter)

Storage Temperature:

Mixing Ratio (Approx. by Volume):

8.8注 0.2 (pounds)

>200°F

2 Years

45 Minutes.

200°F

66 ± 5 (Krebs Units)

NA 50 - 85°F

3:2

APPLICATION DATA:

Application Procedure Guide:

Wet Film Thickness Range: Dry Film Thickness Range:

Temperature Range: Relative Humidity:

Substrate Temperature:

Induction Time @ 72°F:

Recommended Solvent:

Minimum Surface Preparation:

APG-6

1.5 - 2.5 mils 1.5 - 2.5 mils

50 85°F

80% Maximum

Dew Point + 5°F

Clean, Dry, No

Contaminants with

surface profile

of 80 grit sandpaper

None ::

None Normally Required

Application Methods

Airless Spray

Tip Size:

Pressure:

Thin:

Brush or Roller

.009" - .015"

1500 - 2500 PSIG

Not Recommended

Not Recommended

P. O. Box 460, 856 Echo Lake Road Watertown, CT 06795

Tel: (203) 274-6701 Fax: (203) 274-5857

specification and application. No warranty is expressed or implied. No liability is assumed.







HEADQUARTERS:

P. O. Box 460 856 Echo Lake Road Waterlown, CT 06795 Tel (203) 274-6701, Fax (203) 274-5857

KOLOR-POXY SELF-LEVELING FLOOR COATING

No. 5500 SERIES

GENERIC TYPE: EPOXY/AMINE

STERN OFFICE D. Box 964

Solana Beach, CA 92075

Tel (619) 481-3777

Fax (619) 481-3236

PRODUCT A high solids, two component epoxy enamel floor coating for

DESCRIPTION: interior use in a multitude of industrial applications.

RECOMMENDED USES: As a floor coating where a smooth, high gloss; durable and/or

decontaminable surface is required. May be used on concrete:

floors, steel decking or embeds

NOT RECOMMENDED Exterior service, splash and spillage of strong acids; patching

FOR: of holes.

COMPATIBLE Kolor-Poxy Primer/Sealer UNDERCOATS: Kolor-Poxy Clear Sealer

Kolor-Poxy Primers and Enamels-

PRODUCT Solids by Volume: 98 ± 1% CHARACTERISTICS: Solids by Weight: 99 + 1%

Recommended

Dry Film Thickness: 15 - 125 mils

Theoretical Coverage: 63 Sq. Ft./Gallon @ 25 mils DFT

Finish: Gloss

Available Colors: White, Gray, Beige, Russet, Red

Oxide (Special colors available on

request)

Drying Time @ 72°F

To Touch: 5 Hours
To Recoat: 12 Hours
Light Traffic: 24 Hours
Heavy Traffic: 72 Hours

VOC Content: <0.35 Pounds/Gallon

<42 Grams/Liter

April, 1991

TECHNICAL BULLETIN

IECHNICALEDATA

PHYSICAL DATA

Weight per gallon:

Flash Point (Peńsky-Martens)

Shelf Life: Pot Life @ 72°F:

Temperature Resistance:

Viscosity @ 77°F Gloss (60° meter): Storage Temperature:

Mixing Ratio (Approx. by Volume):

1,1:84 0.5 (pounds)

≯110°F

I-Year

20 Minutes

200°F

116 ± 5 (Krebs Units)

90 ± 5 50 - 85°F

2.1:1

APPLICATION DATA:

Application Procedure Guide:

Wet Film Thickness Range: Dry Film Thickness Range: Temperature Range:

Relative Humidity: Substrate Temperature: Minimum Surface Preparation:

Induction Time @ 72°F:

Recommended Solvent:

APG-6

35 - 125 mils 34 - 122 mils

59 - 85°F

85% Maximum Dew Point + 5°F

Sealed: Clean, Dry, No Contaminants

None

None Required

Application Methods

For detailed application method, see APG-6.

P. O. Box 460, 856 Echo Lake Road Watertown, CT. 06795

Tel: (203) 274-6701 Fax: (203) 274-5857



specification and application to warranty is expressed or implied. No liability is assumed.

5500-SERIES KOLOR-POXY SELF-LEVELING FLOOR COATING

MSDS Number Revision Number Revision Date 065

07

01/26/93

Please note that this product is covered by three (3) Material Safety Data Sheets. The first sheet (distinguished by the MSDS Number followed by the letter A) identifies Part A of this two (2) component product. Similarly, the second sheet covers Part B, and the third sheet covers the product as it would be used for application.

This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Pursuant with section G(xii)(4) of this Standard, a "family" MSDS has been prepared where the mixtures have similar hazards and contents, even though the specific compositions vary.

Chemicals which are subject to SARA Title III Section 313 Annual Release Reporting have been listed and identified as required.

Keeler & Long Regulatory Compliance

KEELER & LONG, INC. 356 ECHO LAKE ROAD P. O. BOX 460 ATERTOWN, CT 06795 Information Phone (203) 274-6701

065-A MSDS Number_ Revision Number 07 01/26/93 Revision Date

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME:

5500 KOLOR-POXY SELF-LEVELING

CHEMICAL FAMILY:

Epoxy

FLOOR COATING (Part A only)

SECT	ION 2 HAZAR	WOUS INGRE	DIENIS	
INGREDIENT	OSHA TWA	ACGIH TLV*	CAS I	PERCENTAGE RANGE (wt)
Hazardous Ingredients				
Modified Diglycidyl Ether of Bisphenol A	NE	NE	25068-38-6	50 - 60
Silicon Dioxide (1)(4)	0.1 mg/m ³ (3)	0.1 mg/m ³ (3)	7631-86-9 and/or 14808-60-7	
Magnesium Silicate (Talc) (1)	$2 \text{ mg/m}^3 (3)$	$2 \text{ mg/m}^3 (3)$	14807-96-6	10 - 20
Titanium Dioxide (1)	10 mg/m ³	10 mg/m ³	13463-67-7	10 - 20
Barium Sulfate (1)(2)	0.5 mg/m ³ as Ba	0.5 mg/m ³ as Ba	7727-43-7	1-5
This product may contain (dep	ending on color	<u>.</u>		
Xylene (2)	100 ppm	100 ppm	1330-20-7	<2

	
SECTION 3 PHY	SICAL DATA
BOILING POINT:	(solvent) NA
VAPOR PRESSURE:	(solvent) NA
VAPOR DENSITY: (air = 1)	(solvent) NA
SOLUBILITY IN WATER:	Negligible
APPEARANCE / ODOR:	Ester-like odor Semi-Paste Limited Colors
WEIGHT/GAL	13.5 ± 0.5 lbs.
PERCENT VOLATILE: (by weight)	1 ± 1%
EVAPORATION RATE: (BuAce = 1) (Solvent)	NA

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS:

Combustible Liquid

FLASH POINT PMCC °F):

>110°F

FLAMMABLE LIMITS:

(solvent) LEL: NE

UEL: NE

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire. Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire hazard in the form of vapor when exposed to extreme heat or open flame.

Footnotes

(C) = Ceiling Value NA = Not Applicable NE = Not Evaluated = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected ce dusts

are "wetted-up" in the product.
2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A closery related compound, Propylene Glycol Monomethyl Ether (CAS# 107-98-2) has an OSHA TWA of 100 ppm and an ACGIH TLV of 100 ppm.

(10) = RCRA listed waste (TCLP Metals)

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SECTIONS DEALID DAVAND DAVA

.D LIMIT VALUE: See Section 2

OF OVEREXPOSURE:

May cause skin or eye irritation, contact dermatitis. May a absorbed through skin. Inhalation of high vapor oncentrations may have results ranging from headaches dizziness to unconsciousness, may cause CNS ssion, may irritate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

IC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the pulmonary system.

CONDITIONS PRONE TO AGGRAVATION BY OSURE: Preexisting skin and eye disorders may be

! ROUTES OF ENTRY: Skin exposure, inhalation, Ingestion,

INCY AND FIRST AID PROCEDURES:

Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if initiation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

Dilute with large amounts of water or milk. DO NOT INDUCE VOMITING.

NOGENICITY: None of the chemicals used in this product have sted by either ACGIH, IARC, OSHA, or NTP as cancer causing

SECTION 6 REACTIVITY DATA

LITY: STABLE

ONS TO AVOID: Keep away from heat, sparks, open flame. ng acids or bases in bulk.

ITY: Strong oxidants. May dissolve some plastics and

RDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, on Monoxide, Aldehydes

ARDOUS POLYMERIZATION: Will <u>not</u> occur under normal itions of use.

SECTION 7 SPILL OR LEAK PROCEDURES

PS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all ces of ignition. Dike large spills and pump into salvage tank, orb with suitable material. Keep unnecessary personnel away, d breathing vapors. Ventilate enclosed areas - open windows.

STE DISPOSAL METHOD: Dispose in accordance with local, state, federal regulations. For further information, contact your state or is solid waste agency or the U.S. EPA RCRA Hotline 100-424-9346)

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations: *May be absorbed through the skin.

RESPIRATORY:

using washroom.

In outdoor or open areas with unrestricted ventilation -Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.

in restricted ventilation areas - Approved chemical/me-chanical filters designed to remove vapors and

particulates. In confined areas - Approved air-supplied type respirators.

VENTILATION: Local exhaust Explosion proof equipment - No Smoking.
PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended. OTHER PROTECTIVE EQUIPMENT: Clean, Clean, long legged, long sleeved work clothes HYGIENIC PRACTICES: Wash hands before eating, smoking, or

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. Do Not Work Alone! Keep Away From Children!

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

FLAMMABILITY REACTIVITY:

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

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KEELER & LONG, INC. 356 ECHO LAKE ROAD P. O. BOX 460 TERTOWN, CT 06795 Information Phone (203) 274-6701

065-B MSDS Number Revision Number 07 Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME:

5500 KOLOR-POXY SELF-LEVELING

CHEMICAL FAMILY:

Amine

FLOOR COATING (Part B only)

	SECTION 2 HAZ	ARDOUS ING	REDIENTS
INGREDIENT	OSHA TWA	ACGIH TLV*	CAS PERCENTAGE NUMBER RANGE (w1)
Modified Amines	NE	NE	Proprietary 70 - 80
Benzyl Alcohol	NE	NE	100-51-6 20-30
Phenol (2)	5 ppm (skin)	5 ppm (skin)	108-95-2 < 2.0
¥	•	, ,	

SECTION 3 PHY	SICAL DATA
BOILING POINT:	>200°C
VAPOR PRESSURE:	NA
VAPOR DENSITY: (air = 1)	NA
SOLUBILITY IN WATER:	Miscible
APPEARANCE / ODOR:	Mild Amine Odor Clear Liquid
WEIGHT/GAL	8.3 lbs.
PERCENT VOLATILE: (by weight)	nil
EVAPORATION RATE: (BuAce = 1) (Solvent)	NA

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS:

Paint, 8, UN 1760

(eye/skin corrosive only)

PG-III

Corrosive Liquid >200°F

FLASH POINT (PMCC °F):

FLAMMABLE LIMITS:

(solvent) LEL:

UEL: NA

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire. Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire hazard in the form of vapor when exposed to extreme heat or flame.

Footnotes

(C) = Ceiling Value NA = Not Applicable NE = Not Evaluated

= 92-93 Revision (1) = Regulated as dust hazards. No exposure expecte gince dusts

are "wetted-up" in the product,

= Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
 (4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
 (5) = Depending on color and/or gloss.
 (6) = Susceptible to spontaneous Combustion.

(7) = Susceptible to spontaneous Combustion.
(7) = Exposure limits have not been established for this chemical. A close:
related compound, Propylene Glycol Monomethyl Ether
(CAS# 107-98-2) has an OSHA TWA of 100 ppm and an
ACGIHTLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTION 5 HEALTH HAZARD DATA

HOLD LIMIT VALUE: See Section 2

TS OF OVEREXPOSURE:

May be corrosive to skin and eyes, may be absorbed through the skin. May cause reversible eye damage. Inhalation of high vapor concentrations may have results nging from headaches and dizziness to nging from headaches and dizziness to consciousness, may cause CNS Depression, may ritate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

RONIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the pulmonary system May be sensitizer.

CAL COND CONDITIONS PRONE TO AGGRAVATION Preexisting skin and eye disorders may be

ARY ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion, antact.

RIGENCY AND FIRST AID PROCEDURES:

Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

stion: Dilute with large amounts of water or milk. DO NOT INDUCE VOMITING.

CINOGENICITY: None of the chemicals used in this product have plisted by either ACGIH, IARC, OSHA, or NTP as cancer causing

SECTION 6 REACTIVITY DATA

"ITY: STABLE

IONS TO AVOID: Keep away from extreme heat, sparks, open

OMP CALITY: Strong oxidants. May dissolve some plastics and ser. Avoid epoxy resins under uncontrolled conditions

'ARDOUS DECOMPOSITION PRODUCTS: oon Monoxide, Aldehydes, Nitrogen Oxides

ZARDOUS POLYMERIZATION: Will not occur under normal ditions of use.

SECTION 7 SPILL OR LEAK PROCEDURES

PS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all rces of ignition. Dike large spills and pump into salvage tank, orb with suitable material. Keep unnecessary personnel away, id breathing vapors. Ventilate enclosed areas - open windows.

STE DISPOSAL METHOD: Dispose in accordance with local, state, I federal regulations. For further information, contact your state or all solid waste agency or the U.S. EPA RCRA Hotline 300-424-9346)

SECTION 8 SPECIAL PROTECTION INFOHMATION

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

In outdoor or open areas with unrestricted ventilation -Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.

In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and

particulates.
In confined areas - Approved air-supplied type respirators.

VENTILATION: As necessary to keep exposure levels to a minimum. No Smoking.
PROTECTIVE GLOVES: insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended. OTHER PROTECTIVE EQUIPMENT: Clean, Clean, long legged, long sleeved work clothes HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from extreme heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. Do Not Work Alone! Keep Away From Children!

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH: FLAMMABILITY: REACTIVITY:

2 corrosive to skin/eyes

0: Minimal 1: Slight 2: Moderate 3: Sérious 4: Severe An asterisk (*) indicates the presence of chronic health effects (See Section 5). .

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

MATERIAL SAFETY DATA SHEET

KEELER & LONG, INC. 856 ECHO LAKE ROAD O. BOX 460 TERTOWN, CT 06795 Information Phone (203) 274-6701

MSDS Number 065-AB Revision Number Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME:

5500 KOLOR-POXY SELF-LEVELING

CHEMICAL FAMILY:

Epoxy/Amine

FLOOR COATING (Parts A + B)

SECTION 2 HAZARDOUS INGREDIENTS			SECTION 3 PHYSICAL DATA			
INGREDIENT	OSHA TWA	ACGIH TLV*	CAS P	ERCENTAGE RANGE (w1)	BOILING POINT: VAPOR PRESSURE:	(solvent) NA (solvent) NA
Hazardous Ingredients	······································				VAPOR DENSITY: (air = 1)	(solvent) NA
Modified Diglycidyl Ether	NE	NE	25068-38-6	40 - 50	SOLUBILITY IN WATER:	Negligible
of Bisphenol A Silicon Dioxide (1)(4)	0.1 mg/m ³ (3)	$0.1 \text{ mg/m}^3 (3)$	7631-86-9 and/or	10 - 20	APPEARANCE / ODOR:	Ester-like odor Liquid Paint Limited Colors
erina di Salamania. Err			14808-60-7		WEIGHT/GAL	11.8 ± 0.5 lbs.
Modified Amines Magnesium Silicate (Talc) (1)	NE 2 mg/m ³ (3)	NE 2 mg/m ³ (3)	Proprietary 14807-96-6	10 - 20 5 - 10	PERCENT VOLATILE: (by weight)	1 = 1%
Titanium Dioxide (1) Barium Sulfate (1)(2)	10 mg/m ³ 0.5 mg/m ³ as Ba	10 mg/m ³ 0.5 mg/m ³ as Ba	13463-67-7 7727-43-7	5 - 10 1 - 5	EVAPORATION RATE: (BuAce = 1) (Solvent)	NA
Benzyl Alcohol	NE	NE .	100-51-6	5 - 10		· · · · · · · · · · · · · · · · · · ·
This product may contain (dep	ending on color)	!:				* .
Xviene (2)	100 ppm	100 ppm	1330-20-7	< 2.0		

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS:

Combustible Liquid

FLASH POINT (PMCC °):

>110°F

FLAMMABLE LIMITS:

(solvent) LEL: NA

UEL: NE

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire. Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire hazard in the form of vapor when exposed to extreme heat or open flame.

Footnotes

are "wetted-up" in the product.
(2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.

⁽C) = Ceiling Value NA = Not Applicable NE = Not Evaluated

^{= 92-93} Revision (1) = Regulated as dust hazards. No exposure expecial since dusts

⁽⁷⁾⁼ Exposure limits have not been established for this chemical. A closery related compound, Propylene Glycol Monomethyl Ether (CAS# 107-98-2) has an OSHA TWA of 100 ppm and an ACGIH TLV of 100 ppm.

(10)= RCRA listed waste (TCLP Metals)

OLD LIMIT VALUE: See Section 2

S OF OVEREXPOSURE:

May be corrosive to skin and eyes, may be absorbed through skin. Inhalation of high vapor concentrations may have results ranging from headaches and dizziness unconsciousness, may cause CNS Depression, may te respiratory system. Can be fatal if ingested in e quantities. May be sensitizer.

NIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the mucous membranes and/or pulmonary system.

CONDITIONS PRONE TO AGGRAVATION KPOSURE: Preexisting skin and eye disorders may be ted.

3Y ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion,

ENCY AND FIRST AID PROCEDURES:

Remove to fresh air immediately. Call Physician. breathing has stopped, start resuscitation and administer oxygen.

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

Dilute with large amounts of water or milk. DO NOT INDUCE VOMITING. ion:

INOGENICITY: None of the chemicals used in this product have isted by either ACGIH, IARC, OSHA, or NTP as cancer causing

.: SECTION 6 REACTIVITY DATA

ILITY: STABLE

CONS TO AVOID: Keep away from heat, sparks, open flame.

TIBILITY: Strong oxidants. May dissolve some plastics and

DECOMPOSITION PRODUCTS: Carbon Dioxide, on Monoxide, Aldehydes, Nitrogen Oxides and compounds

RDOUS POLYMERIZATION: Will not occur under normal tions of use.

NING: The curing process is an exothermic reaction. When nixed product is close to the end of its pot life, heat may be rated.

SECTION 7 SPILL OR LEAK PROCEDURES

PS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all ... pes of ignition. Dike large spills and pump into salvage tank. orb with suitable material. Keep unnecessary personnel away, d breathing vapors. Ventilate enclosed areas - open windows.

TE DISPOSAL METHOD: Dispose in accordance with local, state, federal regulations. For further information, contact your state or solid waste agency or the U.S. EPA RCRA Hotline 00-424-9346)

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

1. In outdoor or open areas with unrestricted ventilation Approved mechanical filter respirator to remove solid airborne particulates of overspray during application.

In restricted ventilation areas - Approved chemical/me-chanical filters designed to remove vapors and

particulates. In confined areas - Approved air-supplied type 3. respirators.

VENTILATION: Local exhaust Explosion proof equipment - No Smoking.
PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended. OTHER PROTECTIVE EQUIPMENT: Clean, Clean, long legged, long sieeved work clothes HYGIENIC PRACTICES: Wash hands before eating, smoking, or

using washroom.

.....

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. Do Not Work Alonel Keep Away From Children!

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH:

3 (corrosive to skin

- . 57

& eyes)

FLAMMABILITY: REACTIVITY:

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of Addition of reducers or other additives to this product may substantially after the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

5129 KOLOR-POXY PRIMER/SEALER

MSDS Number 070 Revision Number 04 Revision Date 01/26/93

Please note that this product is covered by three (3) Material Safety Data Sheets. The first sheet (distinguished by the MSDS Number followed by the letter A) identifies Part A of this two (2) component product. Similarly, the second sheet covers Part B, and the third sheet covers the product as it would be used for application.

This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Pursuant with section G(xii)(4) of this Standard, a "family" MSDS has been prepared where the mixtures have similar hazards and contents, even though the specific compositions vary.

Chemicals which are subject to SARA Title III Section 313 Annual Release Reporting have been listed and identified as required.

Keeler & Long Regulatory Compliance

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ŒELER & LONG, INC. 356 ECHO LAKE ROAD 2, O. BOX 460 TERTOWN, CT 06795 Information Phone (203) 274-6701

070-A MSDS Number Revision Number 04 Revision Date_ 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME:

....

#5129 KOLOR-POXY PRIMER/SEALER Part A only

CHEMICAL FAMILY:

Epoxy

	1 41171 01119		
SE	CTION 2 HAZ	ARDOUS ING	REDIENTS
INGREDIENT	OSHA TWA	ACGIH TLV*	CAS PERCENTAGE NUMBER RANGE (wt)
Alkyd Glycidyl Ethers Bisphenol A Diglycidyl Ether Resin	NE NE	NE NE	686909-97-2 15 - 25 25068-38-6 75 - 85

SECTION 3 PHYS	SICAL DATA
BOILING POINT:	(solvent) NA
VAPOR PRESSURE:	(solvent) NA
VAPOR DENSITY: (air = 1)	(solvent) NA
SOLUBILITY IN WATER:	Negligible
APPEARANCE / ODOR:	Ester-like odor Clear Pale Yellow
WEIGHT/GAL	9.2 ± 0.5 lbs.
PERCENT VOLATILE: (by weight)	Nil
EVAPORATION RATE: (BuAce=1) (Solvent)	NA

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS: FLASH POINT (PMCC °F: NA > 200°

FLAMMABLE LIMITS:

(solvent) LEL: NE

UEL: NE

EXTINGUISHING MEDIA: Foam, Carbon

Dioxide, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire." Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

Footnotes

(C) = Ceiling Value NA = Not Applicable NE = Not Evaluated * = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts are "wested-up" in the product.
2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
 (4) = See Carcinogenicity in Section 5 (Health Hazard Data)
 (5) = Depending on color and/or gloss.
 (6) = Susceptible to spontaneous Combustion.

(7) = Exposure limits have not been established for this chemical: A closely related compound, Propylene Glycol Monomethyl Ether (CAS# 107-98-2) has an OSI-IA TWA of 100 ppm and an ACGIH TLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

ECTS OF OVEREXPOSURE:

CUTE:

May be skin and eye irritant. May cause reversible eye damage. May be sensitizer. Inhalation of high vapor concentrations may have results ranging from headaches and dizziness to unconsciousness, may cause CNS Depression, may irritate respiratory system. Can be fatal if ingested in large quantities.

HRONIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the skin,and/or pulmonary system. Chronic overexposure to Xylenes have been shown to cause adverse effects to the liver, kidneys, and or blood. May be sensitizer.

CONDITIONS PRONE TO AGGRAVATION BY EREXPOSURE: Preexisting liver, kidney, skin and eye disorders y be aggravated.

IMARY ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion.

ERGENCY AND FIRST AID PROCEDURES:

alation:

Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Flush exposed eyes with water for at least 15 minutes. An <u> 25</u>: ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or paín persists.

jestion:

Dilute with large amounts of water or milk. DO NOT INDUCE VOMITING.

reports have associated repeated and prolonged cupational overexposure to solvents with permanent brain and rous system damage and possible liver and kidney damage. antional misuse by deliberately concentrating and inhaling the ntents may be HARMFUL or FATAL.

ARCINOGENICITY:

icon Dioxide: The IARC determined that there is sufficient evidence carcinogenicity of crystalline silica to experimental animals and that is limited evidence of the carcinogenicity of crystalline silica to i. This health risk is from prolonged excessive exposure to the ble dust. No exposure to crystalline silica is expected since the ed-up in the product.

SECTION 6 REACTIVITY DATA

TABILITY: STABLE

ONDITIONS TO AVOID: Keep away from extreme heat, sparks, open

COMPATIBILITY: Strong exidents. May dissolve some plastics and

AZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, arbon Monoxide

AZARDOUS POLYMERIZATION: Will not occur.

SECTION 7 SPILL OR LEAK PROCEDURES

TEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all ources of ignition. Dike large spills and pump into salvage tank, bsorb with suitable material. Keep unnecessary personnel away, rold breathing vapors. Ventilate enclosed areas open windows.

'ASTE DISPOSAL METHOD: Dispose in accordance with local, state, nd federal regulations. For further information, contact your state or cal solid waste agency or the U.S. EPA RCRA Hotline -800-424-9346)

SECTION 8 SPECIAL FROID CONTON IN COMME

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

In outdoor or open areas with unrestricted ventilation -Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.

In restricted ventilation areas - Approved chemical/me-chanical filters designed to remove vapors and

particulates. In confined areas - Approved air-supplied type respirators.

VENTILATION: As necessary to keep exposure levels to a minimum.

No Smoking. PROTECTIVE GLOVES: insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended OTHER PROTECTIVE EQUIPMENT: Clean, Clean, long legged, long sleeved work clothes. HYGIENIC PRACTICES: Wash hands before eating, smoking, or

using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from extreme heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. Do Not Work Alonel Keep Away From Children!

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH: FLAMMABILITY: REACTIVITY:

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

16 °

MATERIAL SAFETT DATA SHEET

(EELER & LONG, INC. 356 ECHO LAKE ROAD ². O. BOX 460 "^TERTOWN, CT 06795 Information Phone (203) 274-6701

MSDS Number 070-B Revision Number 04 Revision Date_ 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME:

#5129 KOLOR-POXY PRIMER/SEALER

CHEMICAL FAMILY:

Amido-Amine

Part B only

SECT	ION 2 HAZAF	DOUS INGR	EDIENTS
INGREDIENT	OSHA TWA	ACGIH TLV°	CAS PERCENTAGE NUMBER RANGE (wt)
Amido-Amine Resin Benzyl Alcohol	NE	NE NE ,	Proprietary 55 - 65 100-51-6 35 - 45

SECTION 3 PHYS	SICAL DATA
BOILING POINT:	(solvent) > 200°F
VAPOR PRESSURE:	(solvent) NA
VAPOR DENSITY: (air = 1)	(solvent) NA
SOLUBILITY IN WATER:	Nii
APPEARANCE / ODOR:	Mild Amine Odor Clear Amber Liquid
WEIGHT/GAL	8.0 ± 0.2 lbs.
PERCENT VOLATILE: (by weight)	Nil
EVAPORATION RATE: (BuAce=1) (Solvent)	NA

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS:

NA

FLASH POINT (PMCC °F:

> 200°

FLAMMABLE LIMITS:

(solvent) LEL: NE

UEL: NE

EXTINGUISHING MEDIA: Foam, Carbon

Dioxide, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire.
Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

Footnotes

(C) = Ceiling Value NA = Not Applicable NE = Not Evaluated = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts

are "wetted-up" in the product.

Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
 (4) = See "Carcinogenicity" in Section 5 (Health Hazard Data)
 (5) = Depending on color and/or gloss.
 (6) = Susceptible to spontaneous Combustion.

(7) = Exposure limits have not been established for this chemical. A closely related compound, Propylene Giveol Monomethyl Ether
(CAS# 107-98-2) has an OSHA TWA of 100 ppm and an
ACGINTLV of 100 ppm.
(10) = RCRA listed waste (TCLP Metals)

SECTIONS TENETITIALS DATA

)LD LIMIT VALUE: See Section 2

OF OVEREXPOSURE:

May be corrosive to skin and eyes, may be absorbed arough the skin. Inhalation of high vapor concentrations have results ranging from headaches and dizziness neonsciousness, may cause CNS Depression, may experience respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

NIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the mucous membranesand/or pulmonary system.

L CONDITIONS PRONE TO AGGRAVATION BY CPOSURE: Preexisting skin and eye disorders may be ted.

ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion. ENCY AND FIRST AID PROCEDURES:

on: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer oxygen.

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

ion: Dilute with large amounts of water or milk. DO NOT INDUCE VOMITING.

:INOGENICITY: None of the chemicals used in this product have listed by either ACGIH, IARC, OSHA, or NTP as cancer causing ials.

SECTION 6 REACTIVITY DATA

3ILITY: STABLE

TIONS TO AVOID: Keep away from heat, sparks, open flame.

\TIBILITY: Strong oxidants, May dissolve some plastics and

ARD DECOMPOSITION PRODUCTS: Carbon Dioxide, son Monoxide, Aldehydes, Nitrogen Oxides and compounds.

'ARDOUS POLYMERIZATION: Will not occur.

SECTION 7 SPILL OR LEAK PROCEDURES

EPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all irces of ignition. Dike large spills and pump into salvage tank, sorb with suitable material. Keep unnecessary personnel away, aid breathing vapors. Ventilate enclosed areas - open windows.

1STE DISPOSAL METHOD: Dispose in accordance with local, state, d federal regulations. For further information, contact your state or all solid waste agency or the U.S. EPA RCRA Hotline 800-424-9346)

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

RESPIRATORY:

 In outdoor or open areas with unrestricted ventilation -Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.

 In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and

particulates.

In confined areas - Approved air-supplied type respirators.

VENTILATION: Local exhaust. Explosion proof equipment - No Smoking.
PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.
OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.
HYGIENIC PRACTICES: Wash hands before eating, smoking, or using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. Do Not Work Alone! Keep Away From Children!

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH:

3 (corrosive to skin

& eyes)

FLAMMABILITY:

•

REACTIVITY:

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe

An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication

KEELER & LONG, INC. 356 ECHO LAKE ROAD P. O. BOX 460 TERTOWN, CT 06795

Information Phone (203) 274-6701

070-AB MSDS Number_ **Revision Number** 04 Revision Date 01/26/93

24 HOUR EMERGENCY CONTACT: CHEMTREC (800-424-9300)

SECTION 1 IDENTIFICATION OF PRODUCT

TRADE NAME:

#5129 KOLOR-POXY PRIMER/SEALER

CHEMICAL FAMILY:

Epoxy/Amido-Amine

Parts A + B

SECTION 2 HAZARDOUS INGREDIENTS				
INGREDIENT	OSHA TWA	ACGIH TLV•	CAS PERCENTAI NUMBER RANGE (
Alkyd Glycidyl Ethers	NE	NE	686909-97-2 10 - 15	
Bisphenol A Diglycidyl Ether Resin	NE	NE	25068-38-6 45 - 55	
Amido-Amine Resin	NE	NE	Proprietary 20 - 30	
Benzyl Alcohol	NE	NE	100-51-6 10 - 20	

SECTION 3 PHY:	SICAL DATA
BOILING POINT:	(solvent) NA
VAPOR PRESSURE:	(solvent) NA
VAPOR DENSITY: (air = 1)	(solvent) NA
SOLUBILITY IN WATER:	Negligible
APPEARANCE / ODOR:	Ester-like odor Clear Amber Liquid
WEIGHT/GAL	8.8 ± 0.2 lbs.
PERCENT VOLATILE: (by weight)	Nil
EVAPORATION RATE: (BuAce = 1) (Solvent)	NA

SECTION 4 FIRE AND EXPLOSION DATA

DOT CLASS:

NA

FLASH POINT (PMCC °F:

> 200°

FLAMMABLE LIMITS: (solvent) LEL: NE

UEL: NE

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as gasoline or oil fire; water in solid hose stream will tend to scatter liquid and spread fire. Cool exposed equipment and containers with water. Use air supplied equipment for enclosed areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition and combustion products may be toxic.

Footnotes

(C) = Ceiling Value NA = Not Applicable NE = Not Evaluated • = 92-93 Revision

(1) = Regulated as dust hazards. No exposure expected since dusts are "wetted-up" in the product.

(2) = Subject to SARA Section 313 Reporting.

(3) = Respirable dust.
(4) = See "Carcinogenicity" in Section 5 (Health Fluzzard Data)
(5) = Depending on color and/or gloss.
(6) = Susceptible to spontaneous Combustion.

(7)= Exposure limits have not been established for this chemical. A closely related compound, Propylene Glycol Monomethyl Ether (CAS# 107-98-2) has an OSHA TWA of 100 ppm and an ACGIH TLV of 100 ppm.

(10)= RCRA listed waste (TCLP Metals)

TO OF OVEREY POSSIBLE

TS OF OVEREXPOSURE:

May be corrosive to skin and eyes, may be absorbed through the skin. May cause reversible eye damage. Inhalation of high vapor concentrations may have results ranging from headaches and dizziness to econsciousness, may cause CNS Depression, may itate respiratory system. Can be fatal if ingested in large quantities. May be sensitizer.

RONIC: Long term exposure may lead to dermatitis. Long term exposure may cause adverse effects to the pulmonary system May be sensitizer.

CAL CONDITIONS PRONE TO AGGRAVATION BY REXPOSURE: Preexisting skin and eye disorders may be wated. Preexisting lung allergies may be aggravated. Preexisting valung allergies may increase the chance of developing increased ic symptoms.

ARY ROUTES OF ENTRY: Skin exposure, Inhalation, Ingestion, ontact

RGENCY AND FIRST AID PROCEDURES:

ation: Remove to fresh air immediately. Call Physician. If breathing has stopped, start resuscitation and administer

oxygen

Flush exposed eyes with water for at least 15 minutes. An ophthalmic exam should be performed if irritation or pain persists after 15 minute irrigation.

Wash the exposed area twice with soap and water. Physician should examine the exposed area if irritation or pain persists.

stion:

Dilute with large amounts of water or milk. DO NOT INDUCE VOMITING.

ICE: Reports have associated repeated and prolonged ipational overexposure to solvents with permanent brain and ous system damage and possible liver and kidney damage. It it is also by deliberately concentrating and inhaling the ents may be HARMFUL or FATAL.

ICINOGENICITY:

SECTION 6 REACTIVITY DATA

BILITY: STABLE

NDITIONS TO AVOID: Keep away from extreme heat, sparks, open

OMPATIBILITY: Strong oxidants. May dissolve some plastics and ber.

ZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, bon Monoxide, Aldehydes, Nitrogen Oxides

ZARDOUS POLYMERIZATION: Will <u>not</u> occur under normal iditions of use.

RNING: The curing process is an exothermic reaction. When mixed product is close to the end of its pot life, heat may be nerated.

SECTION 7 SPILL OR LEAK PROCEDURES

EPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Eliminate all urces of ignition. Dike large spills and pump into salvage tank, sorb with suitable material. Keep unnecessary personnel away, bid breathing vapors. Ventilate enclosed areas - open windows.

ASTE DISPOSAL METHOD: Dispose in accordance with local, state, d federal regulations. For further information, contact your state or all solid waste agency or the U.S. EPA RCRA cotline 800-424-9346)

Personal Protective Equipment requirements depend upon the conditions of use. The following are general recommendations:

SECTION'S SPECIAL FIRETEE.

RESPIRATORY:

In outdoor or open areas with unrestricted ventilation.
 Approved mechanical filter respirator to remove solid airborne particulates of overspray during spray application.

 In restricted ventilation areas - Approved chemical/mechanical filters designed to remove vapors and particulates.

In confined areas - Approved air-supplied type respirators.

VENTILATION: As necessary to keep exposure levels to a minimum. No Smoking.

PROTECTIVE GLOVES: Insoluble type (Neoprene) recommended.

EYE PROTECTION: Safety glasses recommended.
OTHER PROTECTIVE EQUIPMENT: Clean, long legged, long sleeved work clothes.
HYGIENIC PRACTICES: Wash hands before eating, smoking, or

using washroom.

SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed. Keep away from extreme heat, sparks, and open flame. Use adequate ventilation. Prevent spontaneous combustion.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact or breathing of vapors and mists. Prohibit eating or smoking. Use spark resistant tools. Do Not Work Alone! Keep Away From Children!

SECTION 10 HAZARDOUS MATERIALS IDENTIFICATION

Communication of physical properties, health and safety information is a key factor in our product safety program. With this information you can better fulfill your obligation to educate exposed personnel in the proper handling techniques required to maintain safety in the workplace. Listed in this section is NPCA-HMIS classification for this product under normal use conditions.

HMIS CLASSIFICATION CODE

HEALTH: FLAMMABILITY:

2 corrosive to skin/eyes

AMMABILITY: REACTIVITY:

ō

0: Minimal 1: Slight 2: Moderate 3: Serious 4: Severe
An asterisk (*) indicates the presence of chronic health effects (See Section 5).

Proposition 65 Statement:

Certain raw materials used in making this product may contain small amounts of materials as impurities which are regulated by Proposition 65.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially after the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. As these are proprietary formulations, the actual percentage of ingredients have been omitted pursuant to OSHA Federal Hazard Communication. Standard.

ATTACHMENT NO.17

WASTE ANALYSIS PLAN ARTICLES

- 17.1 Waste Profile
- 17.2 Land Disposal Restriction Form
- 17.3 Chain of Custody
- 17.4 Waste Screening Flow Chart
- 17.5 Container Contents Sheet
- 17.6 Receiving Report

☐ I authorize EQ – The Environmental Quality Co management from the technologies offered at the E	mpany to choose the appropriate facility and method of waste O facilities identified below.
☐ Michigan Disposal Waste Treatment Plant (Stabilization and Treatment)	49350 N. I-94 Service Drive, Belleville, MI 48111 EPA ID # MID 000 724 831 Phone: 800-592-5489 Fax: 800-592-5329
☐ Wayne Disposal, Inc. Site #2 Landfill (Hazardous & PCB Waste Landfill)	49350 N. 1-94 Service Drive, Belleville, MI 48111 EPA ID # MID 048 090 633 Phone: 800-592-5489 Fax: 800-592-5329
☐ EQ Detroit, Inc. (Stabilization, Wastewater Treatment)	1923 Frederick Street, Detroit, MI 48211 EPA ID # MID 980 991 566 Phone: 313-923-0080 Fax: 313-923-3375
☐ EQ Resource Recovery, Inc. (Solvent Recycling, Fuel Blending, WW Treatment)	36345 Van Born Road, Romulus, MI 48174 EPA ID # MID 060 975 844 Phone: 866-373-8357 Fax: 734-326-4033
EQ North Carolina	1005 Investment Blvd, Apex, NC 27502 EPA ID # NCD 982 170 292 Phone: 919-363-4700 Fax: 919-363-4714
EQ Florida, Inc.	7202 East 8 th Ave, Tampa, FL 33619 EPA ID # FLD 981 932 494 Phone: 813-623-5463 Fax: 813-628-0842
	2000 Ferry Street, Detroit, MI 48211 EPA ID # MIK 939 928 313 Phone: 313-923-0080 Fax: 313-922-8419
☐ EQ Indianapolis (Drum Transfer/Non-Hazardous Waste Processing)	4000 West 10 th Street, Indianapolis, IN 46222 EPA ID # IND 161 049 309 Phone: 317-247-7160 Fax: 317-247-7170
☐ EQ Atlanta (Drum Transfer/Non-Hazardous Waste Processing)	5600 Fulton Industrial Blvd SW, Atlanta, GA 30336 EPA ID # GAR 000 039 776 Phone: 404-494-3520 Fax: 404-494-3560
☐ EQ Augusta, Inc. (Wastewater Treatment)	3920 Goshen Industrial Blvd, Augusta, GA 30906
Waste Common Name:	
Section 1 – Gen	erator & Customer Information
SIC/NAICS*	Internal Use Only: EQ Division
Generator EPA ID#	EQ Customer No.
Generator	Invoicing Company
Facility Address	Address
City State Zip	CityStateZip
County	Country
Mailing Address	
City State Zip	Phone Fax
Generator Contact	
Title	
Phone Fax	· ·
*For a list of NAICS codes, please refer to Section 9 of the EQ Resource Guide.	E-mail
Section 2 – Si	hipping & Packaging Information
2.1) Shipping Volume & Frequency Quarter	2.4) Packaging (check all that apply) Bulk Solid (Yd ³ < 2000 lbs/yd ³)
2.2) DOT Shipping Name	- Dunk Elquida (Odiloli)
	☐ Totes, Size ☐ Cubic Yard Boxes/Bags
	☐ Drums, Size ☐ Other (palletized, 5 gal. Pail, etc.)
2.3) Is this waste surcharge exempt?	Quoted bulk disposal charges for solid materials will be billed by the cubic ya

			Section 3	– Physical	Chara	cteristics	•		
3.1) Colo	r			3.2)	Odor				
3.3) Does	this waste contain any	"Potential	ly Odorous Constituents"				ection 3)	s 🗆 No	
	ical State at 70°F:			Dust/Powde		Liquid	☐ Sludge		
	t is the pH of this waste	?		2.1-4.9		1 5-i0	□ 10.1-12.4	□ ≥12.5	
	t is the flash point of thi		□ <90°F □	i 90-140⁰F] 140-199°F	□ >200°F		
.7) Does	this waste contain? (ch			None		Free Liquids	☐ Oily Residue	☐ Metal	Fines
	☐ Biodegradable Sor			Ammonia		Water Reactive	□ Biohazard	☐ Alumi	
	☐ Shock Sensitive W			Radioactive			☐ Pyrophoric Wa	aste 🗆 Isocya	inates
	☐ Asbestos – non-fria	able	☐ Asbestos – friable ☐] Furans			
			Section 4 – Waste C	ompositio	n and (Generating Pro	cess		
1) Desc	ribe the physical compo	sition of t	he waste (i.e., soil, water, l	PPE, debris, l	key chem	ical compounds, e	tc.)		
	•		to%		•	-		to	0/2
			to %	ó		· · · · · · · · · · · · · · · · · · ·		to	%
2) Prov	ide a detailed descriptio	n of the pi	rocess generating this wast	e (attach flow	v diagran	n if available).	To	otal: 100%	,
			Section 5 –						
s deteri	mined by 40 CFR, Par		lease refer to Section 5 of State Rules:	the EQ Resor	urce Guid		te codes st applicable waste	code(s):	
	s an EPA RCRA listed				∕es ⊏				
•			zardous waste (D001-D04						
-			•	•					
•	ny State Hazardous Wa		•••						
4) Is thi	is waste intended for wa	stewater t	reatment?	□ Y	′es* □] No			
<i>If y</i>	ou answered 'no' to 5. I	l, 5.2, and	5.3, please skip to Section					Characterizatio	on Report
			Addendum found i						
				ı 6 – Hazaı	rdous V	Vastes		•	*
.1) Doe:	s this waste exceed Lane	d Disposal	Restriction levels?					☐ Yes	□ No
	6.1a) If this waste stre	eam is grea	nter than 50% soil, does it	meet the alter	native so	oil treatment standa	rds of 40 CFR 268.	49? □ Yes	□ No
	6.1b) Does this waste	contain gr	eater than 50% debris, by	volume? (Del	bris is gr	eater than 2.5 inch	es in size.)	☐ Yes	☐ No
	e waste an oxidizer (D00							☐ Yes	□ No
	this waste contain reac							☐ Yes	□ No
	this waste contain reac							☐ Yes	□ No
			entrations are below or abo	ove the regula	atory leve	el. Please indicate t	the basis used in the	determination	. Either
Below"	or "Above" MUST be o	checked fo	r each constituent.						
	,	Based C	On: Generate tach a copy. Analysis or	or Knowledg MSDS are re		□ Analysis* for EQFL Non-ha	☐ MSDS* zardous wastes.		
ode	Regulator		Concentration		Code	_	egulatory Level	C	oncentrati
ouc	TCLP (1		(if above)		Couc		TCLP (mg/l)		(if above
004	Arsenic	5	☐ Below ☐ Above		D024	m-Cresol	200	□ Below □ /	
005	Barium	100	☐ Below ☐ Above		D025	p-Cresol	200	□ Below □	
006	Cadmium	1	☐ Below ☐ Above		D026	Cresols	200	□ Below □	
007	Chromium	5	☐ Below ☐ Above		D027	1,4-Dichlorol		☐ Below ☐ /	Above
800	Lead	5	☐ Below ☐ Above		D028	1,2-Dicholore		□ Below □ /	
009	Mercury	0.2	☐ Below ☐ Above		D029			□ Below □ /	
010	Selenium	1	☐ Below ☐ Above		D030	•	•	☐ Below ☐ /	
011	Silver	5	☐ Below ☐ Above		D031	Heptachlor	0.008	☐ Below ☐ A	
012	Endrin	0.02	☐ Below ☐ Above		D032	Hexachlorob		☐ Below ☐ A	Above
013	Lindane	0.4	☐ Below ☐ Above		D033	Hexachlorob		□ Below □ A	Above
014	Methoxychlor	10	☐ Below ☐ Above		D034			☐ Below ☐ A	Above
015	Toxaphene	0.5	☐ Below ☐ Above		D035			☐ Below ☐ A	
016	2,4-D	10	☐ Below ☐ Above		D036			☐ Below ☐ A	Above
017	2,4,5-TP (Silvex)	1	☐ Below ☐ Above		D037		henol 100	☐ Below ☐ A	Above
018	Benzene	0.5	☐ Below ☐ Above		D038			□ Below □ /	Above
019	Carbon Tetrachloride		☐ Below ☐ Above		D039	•		□ Below □ A	
020	Chlordane	0.03	☐ Below ☐ Above		D040			☐ Below ☐ A	Above
021	Chlorobenzene	100	☐ Below ☐ Above		D041	2,4,5-Trichloro		☐ Below ☐ /	Above
022	Chloroform	6.0	☐ Below ☐ Above		D042	2,4,6-Trichloro	•	☐ Below ☐ A	Above
023	o-Cresol	200	☐ Below ☐ Above		D043	Vinyl Chloric	de 0.2	☐ Below ☐ A	
J								- -	
6) If thi	is is a characteristic haza If yes, please list the c		ste, does it contain underly is in Section 11.	ing hazardou	s constitu	uents?		☐ Yes	□ No

Please see Section I certify that all infet to the waste describ verbal permission. EQ approves the waste to, and Generator Signal Company	ormation (including attachments) and herein. I authorize EQ's Resource Team aste described herein, all such verator shall be bound by, the attace atture	☐ Yes a list of UHC State of the complete ource Team to obtain a state that a shed Standard	and factual to add supplemple from transport defends and Terms and	- Certifi and is an elemental in any waste ed, deliver	cation accurate repformation t shipment feed, or tenders. Printed	oresentation to the waste or purposes ered to EQ	of the kno approval f of verifica by Genera	wn and su ile, provid tion and co tor or on o	☐ Yes e refer to 40 spected had ed I am co- onfirmation Generator's	zards, pertaini ntacted and gi n. I agree that, s behalf shall
I certify that all infeto the waste describ verbal permission. EQ approves the wasubject to, and General	ormation (including attachments) and herein. I authorize EQ's Resource Team aste described herein, all such werator shall be bound by, the attachments	☐ Yes a list of UHC Si is complete ource Team to obtain a sea yastes that a hed Standard	□ No 's, VOHAP'. ection 12 and factual to add supp sample from re transport d Terms and	- Certifi and is an allemental in any waste ed, deliver I Condition	cation accurate rep formation t shipment feed, or tenders.	plete list of oresentation to the waste or purposes ered to EQ	of the kno approval f of verifica by Genera	wn and su ile, provid tion and co	Yes e refer to 40 spected haz ed I am co onfirmation Generator's	□ No OCFR 372.65 zards, pertainintacted and gi
Please see Section I certify that all infeto the waste describ verbal permission. EQ approves the w	ormation (including attachments) and herein. I authorize EQ's Resource Team aste described herein, all such v	Yes a list of UHC So is complete ource Team to obtain a systes that a	□ No 's, VOHAP': ection 12 and factual to add supp sample from re transport	s and VOC'. — Certification is an elemental in any waste ted, deliver	cation accurate rep formation t shipment feed, or tender	plete list of oresentation the waste or purposes	of the kno approval f	wn and su ile, provid	Yes e refer to 40 spected has ed I am co- confirmation	□ No OCFR 372.65 zards, pertainintacted and gi
		□ Yes a list of UHC	□ No 's, VOHAP'.	s and VOC'.	s. For a com					
			_							- · ·
		□ Yes	□ No						□ Yes	□ No
		_	□ No							□ No
			□ No	-					Yes	□ No
Constituent	Concentration	UHC?		Constitu			Concent		UHC?	CONTRACT N
(VOHAP's), Volation	waste constituents from these for the constituents from these for the constituents (VOC's)	ur categories and Toxic R		ng Hazardo entory Con	ous Constitu stituents (T	uents (UHC				s Air Pollutai
10.2) Is this waste in	ntended for reclamation?			☐ Yes	□ No	(5-Gallon	Sample red	quired for	all reclaim	waste streams
	Heat value (BTU/lb.)	Chlorin	e (%)		_ Water (%					
	ntended for fuel blending?			☐ Yes*	□No				N,	
(Supporting analyse	is must be attached. Do not use T *For a list of	CLP analyt	ical results. es, please re	Acceptable fer to Secti	e laborator on 9 of the	y methods i EQ Resourc	nclude 802		260, 602 aı	nd 624.)
	9.8) Does the waste contain >1.0 9.9) What is the total Benzene c	mg/kg tota	l Benzene?	ste?		Percent or	r	ppmw	□ Yes	□ No
35 2874 9511	9.6) Does the waste contain >10 9.7) What is the TAB quantity for	or your facil				Mg/Year			☐ Yes	□ No
33 2869 3312 34 2873 4953	If you answered "no" to question	on 9,4 and 9					> 01 1110 1	· · · · · · · · · · · · · · · · · ·		□ Na
24 2865 2911	9.5) Is the generating source of the For assistance in calculations of the second seco									□ No
22 2851 2895 23 2861 2899	in 40 CFR 61, Subpart FF?		•						☐ Yes	-□ No
21 2844 2893	If you answered "no" to 9.3, plo 9.4) Does the waste stream com	ease skip to	Section 10.	In of the SI	C/NIAICS C	ndes listed :	ınder the R	enzene NE	SHAP ide	ntified
16 2842 2891 19 2843 2892	9.2) Is the site, or waste, subject 9.3) Does this waste stream cont	to any otner ain Benzene	MACT or	NESHAP?		☐ Yes, ple	ase specity.	:	☐ Yes	_⊔ No
12 2836 2875 13 2841 2879	For	a complete	list of VOH.	AP's, pleas	e see Sectio	n 11 of the	EQ Resour	ce Guide	•	□ No
NESHAP SIC*	9.1) Is this waste subject to regu (Does the waste contain >500 pp	lation under	40 CFR, Pa	art 63, Subp	art DD or 4	0 CFR, Par				☐ Yes ☐ N ls – VOC's?)
been dra	ined/flushed of all PCBs and deco		n accordan 9 – Clean					□ N/A	☐ Yes	□ No
8.6) Has the PCB A	rticle (e.g., transformer, hydraulic	machine, P	CB-contam	inated elect	rical equipt	ment)				
8.4) Is the non-liqui	d PCB waste in the form of soil, a capacitor manufacturer or a PCB	ags, debris,	or other cor	taminated	media?		,	☐ Yes ☐ Yes	□ No □ No	***
	hat was the concentration of PCB		ocessing?				□ N/A			500+ ppm
If you answered "n	o" to 8.1 and 8.2, please skip to 8 been processed into a non-liquid	Section 9.						☐ Yes	□ No	
8.1) What is the con 8.2) Does the waste	centration of PCBs in the waste? contain PCB contamination from	a source wi	th a concen	☐ None tration ≥ 50	□ 0-5 pp:) ppm?	m □ 6-4	9 ppm L	1 50-499 p _l □ Yes	om. ⊔ 50 □ No	0+ ppm
0.15375.45.45	complete to		ion 8 – T							
	ed oil as defined by 40 CFR Part red 'yes' to questions 7.4 or 7.5 ple		e Waste Cha	racterizatio	☐ Yes* n Report Ad	□ No Idendum foi	ınd in Secti	on 7 of the	EQ Resour	ce Guide.
7.4) Is this waste a r	ecoverable petroleum product?			,,	☐ Yes*	□ No				
7.2) Is this a <u>Univer</u> 7.3) Is this a Recycl	<u>sal</u> waste? <u>able Commodity</u> ? (e.g.: computer	r monitors f	ree mercury	retci)	☐ Yes ☐ Yes	□ No □ No				**.
	an non-hazardous liquid industria	ıl waste?			□ Yes	□ No		ase ust ap	plicable w	aste code:

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material. EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly fumish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Characterization Report. The information set forth in the Waste Characterization Report or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

EQ FLORIDA, INC.Land Disposal Restriction (LDR) Notification Form

			_ Manifest Doc.#		
California List Characteristics iquid hazardous wastes >= 50 ppm PCBs lazardous wastes with HOCs >= 1000 ppm (40 CFR 268, 4) liquid hazardous wastes with nickel concentrations > 134 r liquid hazardous wastes with nickel concentrations > 134 r liquid hazardous wastes with thallium concentrations > 136 LDR Certifications (Pleta in the image) LDR Certification in the image) LDR C	4 Subcategory If applicable)	5 F001-F005 Constituents (if applicable)	6 UHC; Underlying Hazardous Constituents (if applicable)	7 LDR Certification (one per line)	
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aste on following line item(s) is subject to 'California List' California List Characteristics quid hazardous wastes >= 50 ppm PCBs azardous wastes with HOCs >= 1000 ppm (40 CFR 268, 40 ppm) quid hazardous wastes with nickel concentrations > 134 requid hazardous wastes with hallium concentrations > 136 ppm LDR Certifications (Pletting This waste complies with the treatment standards specified in 3004(d). This waste does not meet the treatment standards specified in Section 3004(d). Waste must be treated to the appropriate standards has been treated in accordance with 40 CFR 268, 40 present in the waste, and must be treated to the applicable standards in the waste is lab pack waste for incineration, and qualifies for follows: D009, F019, K003, K004, K005, K006, K062, K071, K100, K1 This waste qualifies for exemption from land disposal restriction. This waste is not restricted under 40 CFR 268. Certify under penalty of law that I personally have examinate to support this certification that the waste complies were forth in 40 CFR 268.32 or RCRA Section 3004(d). I be set forth in 40 CFR 268.32 or RCRA Section 3004(d).					
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	ith the treatme lieve that the	ent standards specified in 40 information I submitted is tr	CFR 268 Subpart D and all apue, accurate, and complete.	oplicable prohibiti	
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The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Form: OPS-FM-019-FLA Effective Date: 6/05

EQ FLORIDA, INC. Land Disposal Restriction (LDR) Notification Form

Generator				US EPA ID#		Manifest Doc.#_			
1 Manifest page # and line item	2 EPA Hazardous Waste Code	ous WW NWW		4 Subcategory (if applicable)	5 F001-F005 Constituents (if applicable)	6 UHC; Underlying Hazardous Constituents (if applicable)	7 LDR Certification (one per line)		
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Page____ of ____



CHAIN OF CUSTODY RECORD

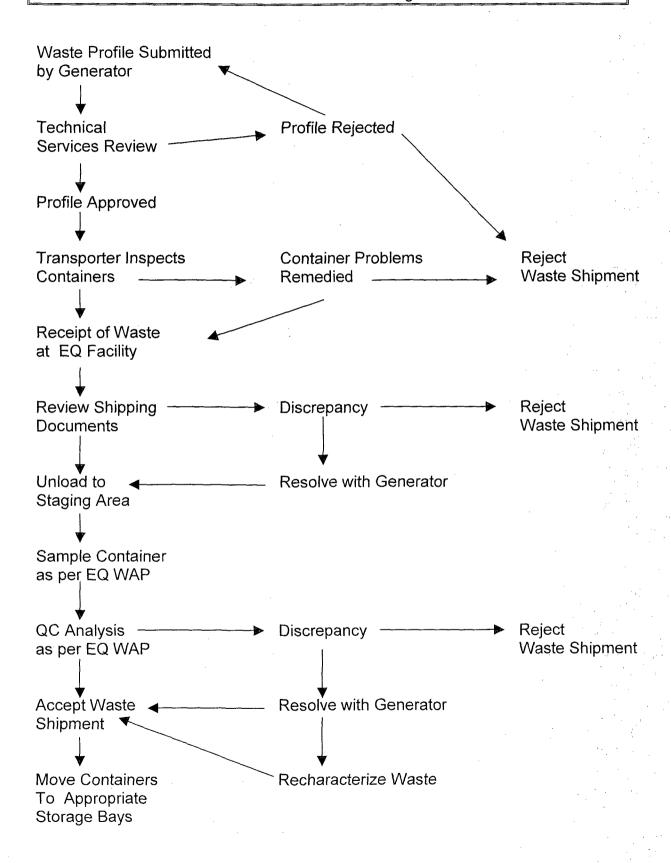
49350 N. I-94 Service Drive Belleville MI 48111

Phone: (800) 592-5489

Fax: (800) 592-5329

Please check all that apply: Michigan Dispo	sal Waste Tr	eatment Plant		☐ Wayne Disposal,	Inc. – Subtitle	C Landfill	☐ Micl	nigan Recovery Systems, Inc. <u>Lab Use Only</u>
Generator Name						·	Cold Pack:	Yes No
Company (Customer)							Headspace:	Yes No
Address							Shipped:	UPS
								FedEx
				:				Other
Phone			Fax	,		· · · · · · · · · · · · · · · · · · ·		
T#	Collection	Date/Time	Samp	le Description/Matrix	# Contain	er(s)	Size/Type (G, P)	Analysis Requested
						·		
	-							
Relinquished By (Sampler*).		Date/Time:	es.	Received By:	Date/Time:		Haza	rds Associated with Sample
Relinquished By :		Date/Time:		Received By:	Date/Time:		Flammat	le
Relinquished By :		Date/Time:		Received By:	Date/Time:		Corrosivo	
*Sampler confirms that sample(s) are See back of this form for shipment g	representative of uidelines.	waste stream(s) desc	cribed above	2.			Highly T	oxic
							Other	

EQ Florida, Inc. Attachment 17.4 Waste Screening Flow Chart





EQ FLORIDA, INC., THE ENVIRONMENTAL QUALITY COMPANY

2002 NORTH ORIENT ROAD, TAMPA, FL 33619 TEL: 813 319-3400 FAX: 813 628-0842

CONTAINER CONT	ZNITS

Drum

Lab Pack

rum #	Date:	Circle One: Virgin Product Spe	nt Material	Approval #:	Chemist:
Proper DOT Shippin	g Name:			<u> </u>	
Hazard Class:	Packaging Group:	UN / NA Number:		Container type:	DM DF 5 30 55 85 CY
Manifest #:	·I				
Line No.	Material Description		Quantity	Size I	EPA Waste Code Number
01	material 5 coorpaint		<u> </u>		
02					
03					
04					
05					
06		·			
07					
09					J
10					
11					
12					
3	***************************************				
14					
15					
16					
17.					
18					
19					
20					
21					
22 23					
24					· · · · · · · · · · · · · · · · · · ·
25					
26					
27					
28					
29					··.
30		·			
Chemist Verification		This Lab Pack list con	tinues: Yes	No This is pa	ge of

WHITE - TSDF

CANARY - CUSTOMER

PINK - DRUM COPY

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

Form: OPS-FM-008-FLA

Effective Date: 05/30/08



Generator	

Manifest/BOL:

Receipt:

Receipt Date:

Territory:

Non-Bulk Total Quantity:

Description:

Containers: Waste: Quantity:

Treatment:

Approval:

Special Handling Instructions:

Lab Comments: **Secondary Waste Codes:**

			[Solid T	уре		Process Type							
Cont.#	Liquid	Solid*	Weight	PS	NPS	Debris	Aerosol	Other	DES	Ship Out	Rolloff	Pump	Size	Date Processed	Comments	BarCode
															We conserve	
															Opperation of	

ATTACHMENT NO.18

RCRA FACILITY ASSESSMENT LETTER

(This Letter is provided for informational purposes only)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

JAN 3 0 1990 4WD-RCRA

Mr. Barry Swihart, Chief
Bureau of Waste Planning and Regulation
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Universal Waste and Transit, Inc. EPA I.D. Number FLD 981 932 544

PECETVED FEB 26 1939

HAZARDOUS WASTE PERMITTING

Dear Mr. Swihart:

The Environmental Protection Agency (EPA) conducted a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) at the referenced facility on August 18, 1988. This is a new facility and it was determined that there has been no evidence of a prior or continuing release of hazardous wastes or hazardous constituents at this site. Therefore, at this time, Section 3004(u) of the Hazardous and Solid Waste Amendments (HSWA) of 1984 does not apply.

Since, apparently, only the Section 3005(h) waste minimization and Section 3004(d) prohibitions on land disposal of specified wastes requirements of HSWA apply to this facility, a separate permit would not be required, provided the State permit incorporates these requirements. In this case, the State permit would constitute the full RCRA permit.

For facilities where only the above mentioned sections apply, the public notice, the notice of intent to issue, and cover page of the permit should contain the following information:

- 1. EPA has determined that the provisions of 3004(u) of HSWA do not apply; but if new information to the contrary becomes available, the permit may be reopened.
- 2. The permit incorporates both the Section 3005(h) HSWA Waste minimization certification requirements and Section 3004(d) Land Disposal prohibitions.
- 3. The State permit constitutes the full RCRA permit, and a federal permit is not required to address the provisions of HSWA.

Additionally, the permit should incorporate the waste minimization requirements, land disposal restrictions and condition for reopening the permit if it is later determined that 3004(u) applies.

We have enclosed recommended wording for inclusion in the public notice, notice of intent to issue, permit cover page and permit conditions.

If you have any questions concerning this matter, please contact Harry Desai at (404) 347-3433.

Sincerely yours,

James H. Scarbrough, P.E.

Chilef, RCRA Branch

Waste Management Division

Enclosure

cc: Satish Kastury, FDER, Tallahassee

Bill Crawford, FDER, Southwest District