

**APROXIMACION AL ESTUDIO DEL RIESGO
DEL BLEVE Y SUS EFECTOS EN LOS
GENERADORES MARINOS DE VAPOR Y LOS
TANQUES DE CARGA DE LOS BUQUES LNG-
LPG. APLICACION COMPARATIVA DE LAS
NORMAS QUE LO REGULAN Y PREVIENEN.**

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ANEXO 3

Table 1. All incidents indicated with "BLEVE".

ACC#	YEAR-DATE	CTRY	ADDRESS	FTLS	INJS	SCENE
5230	1951 0717	USA	PORT NEWARK, NEW JERSEY		11	EXPLOSION AND FIRE OF 70 TANKS AT A TANK YARD
3914	1955 0719	D	LUDWIGSHAFEN		2	EXPLOSION AND FIRE TANKWAGGON
4255	1956 0719	USA	AMARILLO, TEXAS	20	030	BLEVE OF 3 22L TANKS
8888	1956 1022	USA	COTTAGE GROVE, OREGON	12	12	BLEVE OF LPG STORAGE TANK
224	1957 0118	CDM	MONTREAL	1		OVERFLOW BUTANE SPHERE
375	1958 0113	D	CELLE			EXPLOSION TANKWAGGONS
353	1959 0503	USA	MC KITTRICK, CALIFORNIA		2	EXPLOSION STORAGE TANKS
308	1966 0114	F	FEYZIN	18	40	EXPLOSION OF TANKS AT REFINERY
3906	1966 0101	USA	DUNREITH, INDIANA			BLEVE OF TANKWAGGON AFTER DERAILMENT CAUSED BY BROKEN RAIL
307	1969 0125	USA	LAUREL, MISSISSIPPI	2	33	DERAILMENT OF TRAIN WITH 15 TANKWAGGONS, EXPLOSION AND FIRE
7624	1969 1233	NL	UNKNOWN			RUPTURE OF TANK BY FIRE
361	1970 0621	USA	CRESENT CITY, ILLINOIS		60	DERAILMENT AND EXPLOSION OF 9 TANKWAGGONS
373	1971 0119	USA	HOUSTON, TEXAS	1	50	DERAILMENT OF 18 TANKWAGGONS EXPLOSIONS AND FIRE
3891	1971 1118	NL	NIEUWENHUORN			EXPLOSION OF CYLINDER CAUSED FIRE OF DEPOT
3655	1972 0209	USA	TEWKSBURY, MASSACHUSETTS	2	21	COLLISION TANKVEHICLE WITH LINES OF TANK CAUSING BLEVE OF STORAGE TANK
681	1972 0330	BR	RIO DE JANEIRO	37	53	EXPLOSION AND BLEVE OF A BALL TANK
2521	1973 0705	USA	KINGMAN, ARIZONA	13	96	BLEVE OF TANKWAGGON CAUSED EXPLOSION AND FIRE OF LPG DISTRIBUTION PLANT
671	1973 0707	USA	NEW YORK			RUPTURE PIPELINE OF STORAGE TANK, BLEVE OF TANK
2549	1974 0111	USA	WEST SAINT PAUL, MINNESOTA	4	6	EXPLOSION OF TANK
2544	1974 0212	USA	ONEONTA, NEW YORK		25	DERAILMENT AND EXPLOSION OF TANKWAGGONS
607	1974 0417	D	BIELEFELD, BRACKWELDE			DERAILMENT OF 36 TANKWAGGONS, FIRE, EXPLOSION AND BLEVE
7527	1974 1202	NL	HAARLEMMEER-RIJSEWOJDT		1	FIRE AT CAR REPAIR
4260	1975 0622	USA	ANGLETON, TEXAS			BLEVE OF 79 23/43 TANK
2063	1975 0901	USA	DES MOINES, IOWA		3	DERAILMENT AND RUPTURE OF TANKWAGGONS
7352	1976 0825	NL	LOOSDRECHT			FIRE AND EXPLOSION IN CAR
3918	1976 0831	USA	GADSEN, ALABAMA	3	28	EXPLOSION TANKVEHICLE AND STORAGE TANKS DURING TRANSHIPMENT
2071	1976 1126	USA	BELT, MONTANA		22	DERAILMENT AND EXPLOSION OF SEVERAL TANKWAGGONS
4137	1977 0206	USA	BOYNTON BEACH, FLORIDA			BLEVE OF LPG CYLINDERS CAUSED BY DERAILMENT FREIGHTTRAIN
609	1977 0220	USA	DALLAS, TEXAS		1	DERAILMENT OF TANKWAGGONS
4235	1977 0423	USA	LONG ISLAND, NEW YORK	1		BLEVE CYLINDERS ON LORRY
3377	1977 0519	USA	HAWLEY, PENNSYLVANIA			FIRE AND BLEVE OF TANK ON TAR HEATING CAR
2522	1977 0519	USA	POCONO MOUNTAINS, PENNSYLVANIA		1	LEAKAGE SUPPLY LINE CAUSED EXPLOSION AND
3595	1977 0707	NL	MARKELD			BLEVE OF TANK OF ASPHALT MILLING MACHINE

Continued

ACC#	YEAR-DATE	CNTRY	ADDRESS	FTLS	INJS	SCENE
610	1978 0222	USA	WAVERLY, TENNESSEE	15	43	DERAILMENT OF SEVERAL TANK-WAGGONS CAUSED BY BROKEN WHEEL
2119	1978 0530	USA	TEXAS CITY, TEXAS	7	10	11 TANKS EXPLODED BY UNKNOWN CAUSE IN 45 MINUTES
209	1978 1218	NL	NIJMEGEN			BLEVE OF TANKVEHICLE AT FUEL-STATION DURING TRANSHIPMENT
2736	1978 1220	NL	ZWOLLE			EXPLOSION OF GASCYLINDER IN MEASURE-CAR
1591	1979 0516	NL	VLAARDINGEN		2	FIRE IN VAN AND EXPLOSION OF GAS CYLINDER
1639	1979 0601	NL	'S GRAVENZANDE			EXPLOSION OF GAS CYLINDER DURING FIRE IN BAKN
1634	1979 0704	NL	OOSTFLAKKEE			EXPLOSION OF 2 CYLINDERS AND 1 OILTANK
2575	1979 0713	NL	ROTTERDAM			EXPLOSION OF CYLINDER IN VAN
1630	1979 0817	NL	DE MEERN			OVERHEATING OF KETTLE WITH TAR CAUSED EXPLOSION OF GAS CYLINDER
953	1979 0908	USA	PAXTON, TEXAS		8	DERAILMENT OF 33 TRAINWAGGONS WITH CHEMICALS, EXPLOSION AND FIRE FOR 2.5 DAYS
1560	1979 1203	NL	HAARLEMERREER			EXPLOSION OF TANK IN CAR
1181	1980 0105	NL	ROTTERDAM		1	FIRE IN BUSSTATION, LPG TANK EXPLODED
1166	1980 0108	NL	ERLEDON, RIVER WAAL		2	COLLISION OF TANKER "KOABI 21" AND VESSEL "RODORT 6"
3922	1980 0303	USA	LOS ANGELES, CALIFORNIA	2	2	EXPLOSION, FIRE
706	1980 0606	NL	ROTTERDAM			QUVERTURN AND EXPLOSION TANK-VEHICLE LOADED WITH GASOLINE
2701	1980 0804	NL	RAALTE			FIRE IN FACTORY STURE
919	1980 0902	NL	ROAD BRED A TO BAVEL			FIRE IN MOTOR COMPARTMENT OF CAR, BLEVE OF TANK
1520	1980 1126	NL	ROAD BRED A TO BAVEL			MOBILE MILLING MACHINE WITH GASTANK EXPLODED
3419	1980 1126	NL	OOSTERMULDE		1	EXPLOSION OF TANK IN CAR DURING ASSEMBLE
3419	1980 1126	NL	-			
3419	1980 1126	D	KREIS BORKEN - WESEKE		2	FIRE AND EXPLOSION OF TANK-VEHICLE
1836	1981 0302	NL	WIERDEN			FIRE AND EXPLOSION OF GAS CYLINDERS IN STORED CARAVANS
2052	1981 0409	NL	APELDOORN			FIRE OF CARAVANS NEAR LPG INSTALLATION
2002	1981 0510	NL	HAARLEM			FIRE AND EXPLOSION OF STORAGE BRAM
2504	1981 0713	NL	BEUNINGEN		1	EXPLOSION OF GASCYLINDER IN HOUSE
2560	1981 0816	NL	OLDEHOLTPADE, WOLVEGA		1	EXPLOSION OF GASTANK IN CAR BY COLLISION
3988	1981 12??	NL	TIEL			V.W. TRANSPORTER ON FIRE, TANK EXPLODED
4350	1981 ????	USA	UNKNOWN	13	17	BLEVE OF CYLINDER IN CONVERTED COACH
5535	1981 ????	GB	YATELY, HAMPSHIRE			EXPLOSION OF CARTANK IN GARAGE

ACI#	YEAR-DATE	CNTRY	ADDRESS	FTLS	INJS	SCENE
7540	1982 0113	NL	ALKMAAR			FIRE AND RUPTURE OF CYLINDER
3-49	1982 0525	NL	DEN HAAG			EXPLOSION OF A PLUMBER GAS CYLINDER
3950	1982 0601	NL	HAARLEM			EXPLOSION OF A GAS CYLINDER IN CAR
3972	1982 0621	NL	GROOTBOEK	1		CYCLING PERSON HIT FATALY BY FRAGMENT OF CYLINDER
4354	1982 0626	CDN	BLAIRHUME, ALBERTA			DERAILMENT AND RUPTURE SEVERAL TANKWAGGONS
7642	1982 0916	NL	UNKNOWN			RUPTURE OF GAS TANK IN CAR BY FIRE
5681	1982 0928	USA	LIVINGSTON, LOUISIANA			DERAILMENT FREIGHTTRAIN BY OVERSPEED
4449	1982 ???? ?	ET	SUEZ		19	FIRE AND EXPLOSION OF GAS PIPELINE
8227	1984 0315	NL	UNKNOWN			PLASTIC DEFORMATION OF TANK DUE TO OVERHEATING BY FIRE
8228	1984 0709	NL	ROSMALEN			RUPTURE OF A CAR TANK DUE TO FIRE
7942	1984 0723	USA	ROMEOVILLE AND LEMONT, ILLINOIS	15	22	EXPLOSION AND FIRE AT REFINERY
8235	1984 0921	NL	BRUCHTERVELD, HARDENBERG			RUPTURE OF CYLINDER DUE TO BACK FIRE OF FLAME