

CSB Investigations				
What	Where	When	MI Issues	CSB No.
Barton Solvents ethyl acetate tote-tank explosion	Des Moines, IA	10/29/07	No grounding-bonding procedure	No. 2008-02-I-IA
Bethlehem Steel fire & explosion	Chesterton, IN	2/2/01	Failure to remove dead legs from piping	No. 2001-02-I-IN
BP Polymers thermal decomposition	Augusta, GA	3/13/01	Design did not anticipate pluggage from polymerization	No. 2001-03-I-GA
Catalyst Systems, Inc. benzoyl peroxide explosion & fire	Gnadenhutten, OH	1/2/03	Bad temperature probe led to runaway reaction.	No. 2003-03-C-OH
Sonat Exploration Co. explosion & fire	Pitkin, LA	3/4/98	Overpressured atmospheric tank failed—no PSVs, no vent	No. 1998-002-I-LA
Concept Sciences hydroxylamine explosion	Hanover Township, PA	2/19/99	Insufficient controls allowed runaway decomposition	No. 1999-13-C-PA
ASCO acetylene explosion & fire	Perth Amboy, NJ	1/25/05	Bad check valve allowed acetylene to flow through an open drain valve into an enclosed space	No. 2005-03-B
D.D. Williamson & Co. aqua-ammonia explosion & fire	Louisville, KY	4/11/03	Overheated tank with no relief device	No. 2003-11-I-KY
Barton Solvents naphtha tank explosion	Wichita, KS	7/17/07	Level float not grounded/bonded	No. 2007-06-I-KS
Technic, Inc. vent header explosion	Cranston, RI	2/7/03	Unstable, shock-sensitive accumulations in vent line not recognized in design	No. 2003-08-I-RI
West Pharmaceutical polyethylene dust explosion	Kinston, NC	1/29/03	System not designed to contain fugitive dusts	No. 2003-07-I-NC
Bethune Point wastewater methanol tank explosion	Daytona Beach, FL	1/11/06	Flame arrestor not maintained	No. 2006-03-I-FL
BP explosion	Texas City, TX	3/23/05	Instruments not maintained	No. 2005-04-I-TX
CAI Inc. vapor cloud explosion	Danvers, MA	11/22/06	Defective heater vaporized solvents, tank vented inside building	No. 2007-03-I-MA

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CTA Acoustics phenolic resin dust explosion	Corbin, KY	2/20/03	Fugitive dust in enclosed building	No. 2003-09-I-KY
DPC Enterprises chlorine release	Glendale, AZ	11/17/03	Lack of controls on chlorination	No.2004-02-I-AZ
MFG Chemical triallyl cyanurate (TAC) allyl chloride vapor release	Dalton, GA	5/12/04	Runaway reaction caused reactor failure—inadequate cooling & vessel inadequate	No. 2004-09-I-GA
Valero-McKee refinery LPG fire	Sunray, TX	2/16/07	Frozen dead leg failed, support steel not fireproofed	No. 2007-05-I-TX
Honeywell chlorine release	Baton Rouge, LA	7/20/03	Exchanger failure, insufficient remote emergency shutoff switches	No. 2003-13-I-LA
Marcus Oil polyethylene wax explosion	Houston, TX	12/4/04	Noncode repair of pressure vessel, no relief devices	No. 2005-02-I-TX
Praxair gas cylinder fire	St. Louis, MO	6/24/05	No fire barriers or LEL detectors	No. 2005-05-B
Sterigenics ethylene oxide explosion	Ontario, CA	8/19/04	Auto-purge system overridden and vessel opened	No. 2004-11-I-CA
Universal Form Clamp heptane/mineral spirits tank fire	Bellwood, IL	6/14/06	Malfunctioning temperature controller, no ventilation system	No. 2006-08-I-IL
DPC Enterprises chlorine release	Festus, MO	8/14/02	Unloading hose (of wrong material) failed	2002-04-I-MO
Motiva Refinery tank explosion	Delaware City, DE	7/17/01	Vapor space of sulfuric acid tanks ignited from welding slag, tanks had holes in roof & inadequate inert purge	No. 2001-05-I-DE
Environmental Enterprises, Inc. H ₂ S release	Cincinnati, OH	12/11/02	Area detector not working	No. 2003-02-C-OH
Environmental Quality Co. hazardous waste fire	Apex, NC	10/5/06	No fire control detectors or control equipment	No. 2007-01-I-NC
Formosa Plastics VCM Explosion	Illioopolis, IL	4/23/04	Override of automatic controls	No. 2004-10-I-IL
Herring Bros. Propane tank	Albert City, IA	4/9/98	Outlet piping not protected from vehicle strike, footer	No. 98-007-I-IA

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BLEVE			valve failed to function (outlet line diameter too small to trigger valve)	
Sierra Explosives fire & explosion	Mustang, NE	1/7/98	Mixer was started with blade in solidified TNT.	No. 98-001-I-NV
First Chemical runaway MNT reaction	Pascagoula, MS	10/13/02	No safety-critical manual block valve program, inadequate relief system	No. 2003-01-I-MS
Formosa Plastics olefins vapor cloud explosion	Point Comfort, TX	10/6/05	Propylene piping not protected from vehicle strike, no remote isolation available	2006-01-I-TX
Georgia-Pacific H ₂ S release	Pennington, AL	1/16/02	No monitoring systems, sewers not sealed	No. 2002-01-I-AL
Hayes-Lemmerz aluminum dust explosion	Huntington, IN	10/29/03	Dust collector not properly designed	No. 2004-01-I-IN
Isotec liquid nitric oxide release	Miami Township, OH	9/21/03	Corrosion cracking in reactor	No. 2003-15-C-OH
Morton dye fire & explosion	Patterson, NJ	4/8/98	Runaway reaction over pressured reactor, inadequate relief, inadequate pressure design	No. 1998-06-I-NJ
Synthron vapor cloud explosion	Morganton, NC	1/31/06	Runaway reaction, inadequate cooling, not all manway bolts used, failure to evaluate condenser fouling	No. 2006-04-I-NC
Third Coast Industries oil-blending plant fire	Friendswood, TX	4/1/02	Inadequate fire detection & control systems, buildings not designed to minimize spread of fire	No. 2002-03-I-TX
Tosco Avon refinery fire	Martinez, CA	2/23/1999	Piping failure released naphtha, inadequate isolation available, manual valves leaked through, pneumatic valves leaked through	No. 99-014-I-CA