

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity	
1	1980	1980-1-24	Indianapolis	IN	0	0	Dust explosion	Food	Food		Starch Plant	31122					
2	1980	1980-2-1	Minneapolis	MN	1	8	The mill manufactured milk replacer for calves, pigs, and lambs. The mill was destroyed by an explosion when an employee lowered a drop cord into a bin to see if it was empty. A conveyor was running at the bottom of the bin. The drop cord got caught in the conveyor and caused the explosion. The explosion spread throughout the steel bins and the warehouse.	Powdered milk	Food	Bin/conveyor	Powdered milk mill			\$1.5 million			
3	1980	1980-2-8	Decatur	IL	0	0	Dust explosion		Food		Wet Corn Milling	311221	Unknown		Unknown		
4	1980	1980-5-9	Haskell	OK	0	2	Dust explosion		Food		Dehydration Plant						
5	1980	1980-5-10	Eden	NC	0	0	Dust explosion		Food		Unknown						
6	1980	1980-7-22	Jacksonville	FL	0	0	Dust explosion		Food		Brewery	31212					
7	1982	1982-1-1		NE	0	0	A static spark ignited sulfur dust and resulted in an explosion.	Sulfur dust	Inorganic			Unknown					
8	1982	1982-5-6	Duluth	MN	0	9	The explosion occurred in a room where employees were bagging fumaric acid (a powdered chemical used as a sweetener). Apparently a static spark from an electric motor ignited dust from the powdered acid and caused the explosion.	Fumaric acid	Plastic	Electric motor	Industrial Organic Chemicals	Chem manufacture - Industrial organic chemicals	Spark	NA	Production	Packaging	
9	1982	1982-10-18	Keokuk	IA	0	0	Dust explosion		Food		Starch Plant	31122	Smoldering Material	Moderate	Storage Silo		
10	1983	1983-4-19	unknown	WI	0	9	The fire began in the boiler room that housed a combination gas-and wood-fueled boiler. A maintenance supervisor was instructing another employee in boiler lighting procedures. The boiler was lit three times and on the third lighting, yellow fire emitted from the front of the boiler. The fire advanced upward into a sawdust hopper and a cyclone system, resulting in a dust explosion throughout the dust collection network in the building. The explosion triggered fires throughout the duct piping systems and other openings.	Saw dust	Wood	hopper, cyclone system, dust collection system	furniture manufacturer	Furniture & fixtures			Production	Maintenance	
11	1983	1983-5-1	Walkertown	NC	0	0	A dust blowoff booth was installed in one of the cabinet rooms for the removal of wood dust from furniture tops and the exhausting of the dust onto the roof. Accumulated dust was removed from the roof weekly. The fire began when an employee who was on the roof to clean an air intake dropped a cigarette into the accumulated wood dust. The wood dust ignited and fire spread to the roof.	Wood dust	Wood	Air handling unit	furniture manufacturer	Furniture & fixtures	Flame	\$1.2 million	Production	Cleaning	
12	1984	1984-2-20	Owensboro	KY	0	1	Dust explosion		Food		Soybean Processing		Spontaneous Combustion	Minor	Dust Collector		
13	1984	1984-2-23	Loveland	OH	0	1	Two employees of a fireworks manufacturing facility were operating a hydraulic press, assembling wings. They were loading clay and two pyrotechnic compounds into cardboard tubes. There was dust on the floor and in suspension in the air. One employee noticed a fire on the floor and on his pants leg. He called a warning and exited the building through a doorway. The other employee, was trying to leave when he was blown through another doorway. A second explosion took place outside the building where 125 pounds of pyrotechnic compound was improperly stored. This happened while ten or so employees were fighting the fire from the first explosion.	Pyrotechnic dust	Inorganic	hydraulic press	fireworks manufacturing company; chemicals and chemical preparations	Chem manufacture - Miscellaneous chemical products	Unknown	NA	Production	Loading/unloading	
14	1984	1984-6-8	Decatur	IL	1	3	Dust explosion		Food		Corn Gluten Pelleting Plant	311221	Unknown	Moderate	Dust Collector		

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15	1984	1984-6-15	Brilliant	OH	1	4	One of several fuel pipes that carry fuel to the boiler furnace became very hot. When the system was shut down, an explosion occurred in the other fuel pipes. Coal dust was possibly ignited by the hot fuel pipe. The workers were preparing to cool the fuel pipe with a fire hose. Employees #1, 2, 4 and 5 were on the H R deck, unit 1. Employee #3 was on the H 8 deck, unit 1, 15 feet below the H R deck. The employees received burns and suffered from dust inhalation.	Coal dust	Coal	Boiler furnace	Electric services	Electric Services	Hot surface	NA			
16	1984	1984-6-19	Fairfield	IA	1	1	A fire started in the dust collector which is connected to the wheelabrator. The manufacturer of the machine believes gas from the fire built up in the wheelabrator and caused the third and biggest explosion; two smaller explosions took place in the dust collector. A maintenance worker on the third shift, was found about 7 ft from where he was standing before the explosion. A witness saw his head hit the furnace. Another employee was thrown to the floor about 5 ft from where he was standing, sustaining a cut on his upper left arm. The fire marshall officer listed the cause of the fire as static electricity. Neither the dust collector nor the wheelabrator had been used for over a week due to repairs. A stone grinder, which is attached to the dust collector by a duct, was run twice for 8/10 of an hour. A spark from the stone grinder, or heat build-up from newly collected dust, may have started the fire. There was no evidence of fire in any of the ducts.	Aluminum dust	Metal	Dust collection system, wheelabrator (Goff airless shot blast equipment for polishing aluminum)	aluminum foundry	Primary metal industries	Spark	NA	Production	Inspection	
17	1984	1984-7-18	unknown	CA	0	0	An explosion occurred in a coal bin. Fire was initiated by spontaneous combustion. Carbon dioxide application from the top was insufficient to prevent the development of an explosive atmosphere in the confined space above the coal. When a smoldering fire burns for a considerable time without being detected, the buildup of volatile gases can produce an explosive mixture resulting in an explosion. There was extensive damage to the bin top and to the conveyor housing feeding the bin.	Coal dust	Coal	Coal bin	cement producer	Stone, clay, glass, & concrete products	Spontaneous combustion	NA			
18	1984	1984-7-23	Hayden	CO	1	2	An explosion occurred in the ambient air intake ductwork of the hayden station, unit 2b mill (coal pulverizer). One worker was struck by a flying air shroud and killed. The cause of the explosion is unknown. A citation for lack of training was recommended.	Coal dust	Coal	coal pulverizer	Electric services	Electric Services	Unknown	NA	Production	Crushing	
19	1984	1984-8-10	Ravenswood	WV	2	0	Crushed coal tar pitch had jammed in a "brady" conveyor system. Four employees had gone to the basement of the building and removed a section of the pipe. They were going to increase air pressure in the line to purge the material by blowing it out at the point where the pipe had been disconnected. This was a common practice and was the second time it had been done on this same shift. When the line clears itself the entire building is engulfed in coal tar dust. The area had not been cleaned in over two weeks, allowing an unusual amount of pitch to build up in the basement. While one of the foremen was at the air control valve, pressurizing the system to blow out the plug, a cloud of dust and a ball of fire came upstairs and out of the basement. There was instantly a flash fire in the building. Then a major fire broke out as the pitch residue, which was everywhere, began to burn. The ignition source for the explosion and fire was most probably a broken incandescent light bulb.	Coal dust	Coal	"brady" conveyor belt	Primary Production of Aluminum	Primary metal industries	Hot surface	NA			

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20	1984	1984-8-31	Concord	NH	0	1	An employee was burned while standing at the feed end of a time saver sanding machine. Apparently a fire in the dust collector connected to the time saver machine blew back through the ductwork of the machine exhaust hoods and onto the employee's body. The time saver sanding machine collects steel and aluminum dust from the surface sanding of steel or aluminum parts processed through the machine. At the time of this accident the time saver machine operator was feeding steel parts into the sander. This process normally generates visible sparks at the point of sanding. In this instance the sparks became plugged at the local exhaust hood, near the sanding belt on the machine, producing a glowing mass of metal. An employee came into the room to watch the sanding machine operator try to dislodge the glowing mass with a rod while standing on the side of the machine. The employee saw the flexible rubber ductwork behind the sanding machine operator begin to smoke. The employee, now standing at the feed end of the sanding machine, attempted to turn off the electric current to the dust collection system. At this time, the flash fire occurred and burned the front of his body from	Aluminum dust	Metal	Time-saver sanding machine	Telephone and Telegraph Apparatus	Equipment manufacturer - industrial	Spark	NA	Production	Sanding/grinding
21	1985	1985-2-14	Albany	OR	0	1	A piece of tramp metal was accidentally dumped into the south side hopper along with a load of wood chips and plywood trimmings, but was stopped by metal disc screens located a few feet from the hopper. The movement of the screens caused a spark to occur. The spark ignited the dust in the confined area of the large and open-spaced dump house. Because the belt conveyer was covered, the flame wave was able to travel the entire length of the conveyor system, running ahead of the sprinkler system located along the inside of the conveyer covering. The fire reached the two main storage buildings via the conveyer system. Additional dust was probably suspended in the air from a pile of sawdust, chips and trimmings, causing a secondary explosion. This occurred each time the fire entered one of the two storage buildings.	Wood dust	Wood	Hopper	Reconstituted Wood Products	Lumber & wood products	Metal strike	> \$ 1 Mil		
22	1985	1985-4-3	Rockford	IL	1	13	Employees were working at a plant that mixes and packages a pesticide for rats, gophers, ground squirrels, and similar pests. the product consisted of sodium nitrate, sulfur, charcoal, and dextrin. an arc produced by some electric equipment started a fuse-like fire on the floor. several massive explosions then occurred. one employee was killed, and 13 others were injured in the explosion. the electric equipment was not approved for the hazardous location, and there was poor housekeeping at the plant.	(Sodium nitrate, sulfur, charcoal, and dextrin) dust	Inorganic	Electric equipment	animal pesticide packaging plant	Packaging & storage	Flame	NA	Production	Packaging
23	1985	1985-6-4	Glenrock	WY	0	3	A primary air fan, a motor, and a coal pulverizer system running at maximum capacity overloaded, causing the system to shut down. The seal air pressure in the pulverizer unit overcame the decaying primary air fan pressure, causing the coal dust to back flow into the primary air fan shroud which had been running at 500 degrees fahrenheit. The coal dust coming in contact with the hot metal caused gasification and spontaneous combustion. The inboard side of the fan shroud separated and a large fire ball erupted, burning the three employees who were nearby.	Coal dust	Coal	coal pulverizer; air pressure fan; air fan shroud	Electric Services	Electric Services	Hot surface	NA	Production	Crushing
24	1985	1985-6-12	Clinton	IA	0	1	Dust explosion		Food		Wet Corn Milling	311221	Fire	Minor	Dryer	
25	1985	1985-6-18	unknown	NM	0	0	An explosion occurred in the coal grinding mill circuit during a scheduled shutdown of a cement kiln. Property damage and disruption of production resulted. Physical damage was limited to the 914.4-mm diameter hot air supply pipe which had separated at the welded joint, bent and distorted coal screw feeder covers, the hot air inlet damper (badly bent), and minor distortion of the cold air inlet control damper.	Coal dust	coal	Grinding mill	cement producer	Stone, clay, glass, & concrete products	Unknown	NA		Unknown
26	1985	1985-6-24	Galax	VA	0	7	Explosion occurred in dust system of rough mill area; explosion flashed back through duct intakes.	Wood dust	Wood	Dust collection system	Wood Household Furniture	Furniture & fixtures	Unknown	NA		

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27	1985	1985-8-2	Brigham City	UT	0	0	On August 2, 1985, at approximately 11:14 pm, an explosion occurred at building m-75. The exact cause of the explosion is not known, however it is believed to have started in the final product bag house, spread to the large dryer and then to the dust collection system. The dryer, final product collection system and dust collector burned at a high speed, generating high pressures and bursting these enclosed systems. The resulting fire destroyed the ingredient preparation area as well. The probable cause of the incident is a static discharge from the materials moving through the system.	Combustible dust	Inorganic	dust collection system, dryer, and baghouse	manufacturer of Guided Missiles and Space Vehicles	Equipment manufacturer - industrial	Static	NA	Production	Ingredient preparation
28	1985	1985-10-24	Brunswick	GA	1	2	To free a clogged vertical bucket conveyor, employees scooped vinsol (resin) with shovels from a pit. A lamp was positioned through a hinged steel door via an extension chord. Upon finishing the task, the employees slammed the door closed, causing an electrical short, which led to a dust explosion.	Resin (Vinsol) dust	Plastic	vertical bucket container; light device w/extension cord	gum and wood chemicals	Chem manufacturer - Industrial organic chemicals	Electrical	NA		
29	1986	1986-2-28	Manitowoc	WI	0	4	A construction company was renovating an incinerator at a liquid smoke manufacturer. The pipe used to feed charcoal dust into the incinerator became filled with charcoal dust. While attempting to fit the pipe to the ceiling of the incinerator, an employee removed the end cap, releasing the accumulated charcoal dust. The dust made contact with a propane heater being used inside a temporary enclosure around the incinerator. A flash fire resulted.	Charcoal dust	Wood	incinerator; propane heater	manufacturer of "smoke" flavoring for food products (pyrolysis technology)	Food products	Flame	NA	Production	Repair/modification
30	1986	1986-6-18	Fairfield	CA	0	4	Dust explosion		Food		Malt Plant	311213	Foreign Material	Minor	Bin	
31	1986	1986-7-1	Grafton	OH	1	1	Two employees were mixing and bagging the following three compounds: aluminum powder (metallic al), iron oxide, and zirconium silicate. Another employee was bringing in drums of aluminum powder and placing them on a metal deck. One of the drums fell 2 to 3 feet, striking the metal floor and causing a spark. The spark ignited the metal dust, causing an explosion and fire.	Aluminum dust	Metal	mixing tank; drum of aluminum powder	chemical and chemical preparations	Chem manufacturer - Miscellaneous chemical products	Metal strike	NA		
32	1986	1986-7-22	Elk Grove Village	IL	0	1	The employee was charging a 1,000-gallon mixing tank with dry materials prior to blending a batch of gel lacquer. Before charging, the tank had been cleaned with 50 gallons of toluene. The tank was charged with 370 pounds of a chlorinated rubber product and an estimated 120 pounds of carnauba wax. The employee then removed the polyethylene liner from the fiberboard drum of wax and shook it. Shaking the polyethylene liner generated a static spark that ignited the dust and the toluene vapors in the tank. A flash fire resulted. Nitrogen had been added to the tank, but sufficient oxygen was still present to support combustion.	Chlorinated rubber dust	Plastic	mixing tank	manufacturer of Adhesives and Sealants	Chem manufacturer - Miscellaneous chemical products	Static	NA	Production	Loading/unloading
33	1986	1986-7-29	Becker	MN	0	2	A lead worker and four other employees were assigned the task of changing dust filter bags on a coal dust collector at an electric power generation plant. Using their employer's energy control procedures, they isolated the system and set up the job. The employees were using two portable 500-watt quartz lights--one on the work platform and one at floor level. The light at floor level had a broken lens. While this light was on, one of the employees noticed coal dust falling on the light and realized that that was an explosion hazard. He reached for the light, and it exploded.	Coal dust	Coal	2 portable quartz light devices; dust collector	Electric Services	Electric Services	Hot surface	NA		
34	1986	1986-9-8	Memphis	TN	1	1	An explosion in the dust collecting system caused an interior wall of a building to collapse. An employee sitting in an office and was struck by falling debris and was killed.	Wood dust	Wood	Dust collection system	Hardwood Dimension and Flooring Mills	Lumber & wood products	Unknown	NA	Production	Unknown
35	1986	1986-9-13	Ashtabula	OH	2	0	Fire broke out on a bridge conveyor. Employees entered conveyor with fire extinguishers. The burning conveyor belt broke, causing two dust explosions.	Unknown	Food	bridge conveyor	Marine Cargo Handling	Packaging & storage	Fire	NA		

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36	1986	1986-12-15	Peoria	IL	0	0	Dust explosion		Food		Alcohol Plant	311221	Hot Bearing	Minor	Bucket Elevator		
37	1986	1986-12-31	Galax	VA	0	2	Employees preparing to start a fire in a boiler by inserting kindling into the firebox; some airborne dust entered the firebox when an ignition source (burning newspaper) was added to the boiler, causing a flashback.	Wood dust	Wood	boiler/firebox	Hardwood Dimension and Flooring Mills	Lumber & wood products	Fire	NA			
38	1987	1987-2-4	Marion	NY	1	5	An employee was removing (grinding) tefcon coatings from aluminum fuser rolls when explosion occurred.	Aluminum dust	Metal	grinder, aluminum fuser rolls	Coating, Engraving, and Allied Services	Fabricated metal products	Unknown	NA			
39	1987	1987-3-18	Grove Hill	AL	1	0	On March 18, 1987, an employee went outside to light a sawdust burner with a borrowed disposable butane cigarette lighter. The wind was high (approximately 30-40 mph) that day. The employee went inside the burner to light the sawdust, then came out and closed the door behind him. He then started to run. He ran around the yard, on fire, until he found a puddle of rain water. He then began to roll in the water, trying to put out the fire. It is conjectured that the wood dust inside the burner was heavily suspended in air (due to the high winds) and exploded in a flash fire when the employee lit the disposable butane cigarette lighter. Alternatively, it is conjectured that the disposable cigarette lighter may have exploded.	Wood dust	Wood	Saw dust burner	manufacturer of furniture	Furniture & fixtures	Flame	NA	Disposal	Saw dust incineration	
40	1987	1987-3-27	East Chicago	IN	1	2	Employees were removing dust bags from a Pangborn dust collector located in the 4-A roll shop at the company's plant #2. The dust collector had two rooms: a motor room for the exhaust fan, and a bag room, in which bags hung from the ceiling over a hopper that was protected by a grate. A contractor hired to remove the dust with a vacuum truck, was in the motor room. His head and shoulders were through a 14 by 34 inch porthole leading into the bag room. He was taking bags from one employee and throwing them out of the dust collector. The vacuum truck was connected to the hopper and was in operation when an explosion occurred in the hopper and flames shot upward to where the three employees were working.	Iron dust	Metal	Dust collection system	steel plant	Primary metal industries	Unknown	NA	Production	Repair/modification	
41	1987	1987-4-8	Mishawaka	IN	1	0	An employee was adding several bags of a chemical (cab-/sic Osica) and xylene to a 500 gallon churn. The xylene and the chemical dust ignited, causing flash fire	cab-/sic dust	Plastic	Mixer	fabricator of rubber products	Rubber & plastic products	Unknown	NA	Production	Loading/unloading	
42	1987	1987-6-10	Salt Lake City	UT	0	6	Employees were present when a surface dresser belt sander metal finishing machine had been used to surface aluminum plate parts. The particulate matter was drawn into a bag dust collector and the process was then changed to steel. A leadman saw smoke coming from the machine, but ignored it. After about an hour, profuse smoke came out of the dust collector and when the residue tray was opened a sparking fire was observed. When the shag door was opened, the fire level increased. An employee used an ABC fire extinguisher to put out the fire, causing the dust to explode into a fireball.	Aluminum dust	Metal	surface dresser belt sander metal finishing machine; dust collection system	sheet metal work	Fabricated metal products	Unknown	NA	Production	Sanding/grinding	
43	1987	1987-9-13	Decatur	AL	0	0	Dust explosion		Food		Wet Corn Milling	311221	Fire	Moderate	Dryer		
44	1988	1988-1-14	Marshall	MN	0	0	Dust explosion		Food		Corn Wet Milling	311221	Metal Sparks	Minor	Bucket Elevator		
45	1988	1988-3-19	Santa Maria	CA	0	3	Dust explosion		Food		Sugar Processing	311313	Unknown	Unknown	NA		
46	1988	1988-3-30	Union	NJ	0	2	Two chemical operators received chemical burns on their upper torsos when a deflagration blast occurred as they were charging a catalyst into a reactor through a 14 inch charge port. they were both hospitalized.	Catalyst dust	Pharmaceutical	reactor; charge port	pharmaceutical manufacturing	Chem Manufact - Pharmaceutical Preparations			Production	Loading/unloading	

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47	1988	1988-4-15	Roseboro	NC	0	2	Smoke was seen coming from one of the flexible ducts of a production belt sander. The sander was shut down and the cover opened to determine the cause of the smoke. A small fire was discovered inside the sander in some accumulated wood dust. Plant personnel extinguished the fire. After this fire was extinguished, smoke was detected coming from the dust collection system pipe outside the plant. Investigation revealed that there was some dust on fire inside the pipe near the cyclone. A hole was cut in the pipe and water directed onto the fire. During this time, the exhaust system blower was turned off. While the water was being placed onto the fire in the pipe, an employee was banging on the pipe trying to dislodge the burning dust. When the blower was turned back on, the dust in the pipe exploded, rupturing the pipe in several places.	Wood dust	Wood	production belt sander	hardwood veneer and plywood manufacturer	Lumber & wood products	Unknown	NA	Production	Sanding/grinding
48	1988	1988-5-12	Cleveland	OH	1	8	Three production operations were functioning: the #3 screening system, where an inert material is ground, sized, and screened; the dryer, where ferromanganese is stabilized; and the nugget system, where manganese and iron powders are mixed with a "glue" to make "nuggets." A series of explosions occurred, probably originating at the nugget machine where sparks/fire entered the outside bag dust collector through the duct work, causing a violent explosion within the collector. The top of the collector blew, and flaming pieces of metal flew onto a wooden portion of the plant roof. The fire spread rapidly because of the wood roof, the combustible dust/powders in the plant and, possibly, because of ruptured gas lines.	Manganese dust	Metal	Dust collection system	Electric and Gas Welding and Soldering Equipment	Equipment manufacturer - industrial	Unknown	NA	Production	Loading/unloading
49	1988	1988-7-13	Lima	OH	1	2	A 30-ton ladle containing 50,000 lbs of molten iron snapped and spilled an unknown quantity of iron onto the floor at the south end of a 20ft pit in an iron foundry. A flash fire was immediately created by the combustion of the molten iron and foundry dust.	Metal dust	Metal	30-ton ladle; Alliance overhead cab crane	steel foundry	Primary metal industries	Hot surface	NA	Production	Loading/unloading
50	1988	1988-11-19	Addyston	OH	1	0	Employee lowered an exposed light bulb into a hopper in order to see while cleaning; the water used to clean the hopper broke the bulb, igniting the dust and causing an explosion.	Plastic dust	Plastic	Hopper	plastics materials, synthetic resins, and nonvulcanizable elastomers	Chem manufacture - Plastics materials & synthetic resins	Hot surface	NA		
51	1988	1988-12-2	Minneapolis	MN	0	0	Dust explosion		Food		Oat Mill	3112	Unknown	Minor	Dust Collector	
52	1988	1988-12-2	Bellamy	AL	1	0	An employee was inspecting a mill boiler and associated compartments, which had been idling for approximately 21 hours. When the employee opened the inspection door to a fly ash collector, the opening of the door resulted in an influx of air that apparently caused the bridged dust to flame up, weaken, and fall out.	Wood dust	Wood	mill boiler; Dust collection system	paper product manufacturer	Lumber & wood products	Unknown	NA	Production	Inspection
53	1989	1989-1-11	Robesonia	PA	1	0	Employee working on metal line brushing aluminum dust into mixing drum with hand brush; the static electricity ignited the dust, causing an explosion and fire.	Aluminum dust	Metal	Hand brush; mixing drum	Secondary nonferrous metals	Primary metal industries	Static	NA		
54	1989	1989-1-25	Battle Creek	MI	0	1	An explosion occurred with the pulverizer of a hammer mill (which was driving granulated sugar through a screen to produce fine powdered sugar), causing a possible second explosion in the soundproof room that employees were working in.	Sugar dust	Food	hammer mill/pulverizer	food preparations	Food products	Hot surface	NA	Production	Crushing
55	1989	1989-2-3	Atchison	KS	0	0	Dust explosion		Food		Bulk Feed Warehouse	311221	Electric Sparks	Moderate	End of Storage Building	
56	1989	1989-2-14	Cedar Rapids	IA	0	0	Dust explosion		Food		Chemical Processing Plant		Fire	Minor	Dust Collector	

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57	1989	1989-3-2	Wilkes Barre	PA	1	2	Three employees were in the area of a dry-type dust collection device that was being used to collect aluminum and steel dust from a grinder/polisher. The steel dust created heat and sparks, which ignited the aluminum dust in the dust collector. One of the employees noticed smoke and flames and attempted to extinguish the fire using an H2O fire extinguisher. The fire increased rapidly in intensity, burning all three employees.	Aluminum dust	Metal	Dust collection system; grinder/polisher	Fabricator of Wire Products	Fabricated metal products	Spark	NA	Production	Sanding/grinding
58	1989	1989-5-12	Decatur	IL	0	0	Dust explosion		Food		Wet Corn Milling	311221	Hot Metal	Severe	Drag Conveyor	
59	1989	1989-7-13	Fort Smith	AR	0	7	An explosion occurred in the powder room of the facility when chemicals used in a coating process were ignited. The source of ignition was unknown. The rubber coating is applied in a dust form. The dust probably was sparked by a device that emits an electric static discharge.	Plastic dust	Plastic	Unknown	Miscellaneous Fabricated Wire Products	Fabricated metal products	Static	NA		
60	1989	1989-8-7	Elkhart	IN	0	2	A high-speed spindle assembly malfunctioned, overheated, and partially disintegrated, sending either hot metal or burning wood into a dust collector system. An explosion took place in the bag house of the system, causing a back blast down the duct work.	Wood dust	Wood		Unsupported Plastics Profile shapes	Rubber & plastic products	Hot surface	NA		
61	1989						Information not cleared for public release	Coal dust	Coal	conveyor belt, coal crusher unit	power plant	Electric Services			Production	Inspection
62	1989	1989-11-13	Keokuk	IA	0	0	Dust explosion		Food		Wet Corn Milling	311221	Unknown	Minor	Unknown	
63	1989	1989-11-22	Keokuk	IA	0	0	Dust explosion		Food		Starch Plant	31122	Fire	Moderate	Dust Collector	
64	1990	1990-1-17	Avon Lake	OH	2	1	Employees were mixing magnesium powder (metallic), calcium carbide, and sodium chloride. They were using a steel pipe to loosen a blockage in a magnesium batching hopper. The pipe caused a spark to ignite the magnesium, causing a flash fire and explosion.	Magnesium dust	Metal	Magnesium batching hopper	Chemical preparations facility	Chem manufacture - Miscellaneous chemical products	Metal strike	NA		
65	1990	1990-2-19	?	OR	0	9	Accumulations of paper dust at the bow truss level to the roof decking were ignited by heat from an overhead natural gas heater. The fire spread rapidly both horizontally and vertically because of the dust accumulations. Accumulations of dust and paint on automatic sprinklers delayed sprinkler activation.	Paper dust	Wood	natural gas heater	cardboard box manufacturer	Paper products	Unknown	\$12.0 million	Production	Unknown
66	1990	1990-3-31	Newburgh	IN	0	7	An employee started welding cable tray brackets and conduit pipe supports while standing on top of an exhaust duct leading to the the outside of the building. The duct came from a wet type dust collection machine, and carried aluminum fines and dust. Due to a gap in the duct, aluminum fines were dispersed into open air. Welding sparks ignited the dust and fines, which created a fireball.	Aluminum dust	Metal	Lincoln arc welder #6251; Type N Roto-Clone dust collection machine	electrical generation plant	Electric Services	Spark	NA	Production	Repair/modification
67	1990	1990-4-20	Baltimore	MD	0	2	After a maintenance shutdown, an employee restarted a nitride line. An explosion occurred within the elevator of the line, and hot dust escaped through the vent panel.	Metal dust	Metal	Elevator	Electrometallurgical Products	Primary metal industries	Unknown	NA		
68	1990	1990-6-21	Hot Springs	AR	2	0	Witnessing paint peeling off the lower part of a hopper in a newly-installed aluminum dust collection system, two employees recognized this as an indication that the dust was on fire. The system was closed off and the dampers were shut so that the fire would be smothered from lack of oxygen. The fire appeared to have gone out, when an explosion occurred in the hopper.	Aluminum dust	Metal	Dust collection system	nonferrous metals	Primary metal industries	Unknown	NA	Production	Inspection
69	1990	1990-6-29	Tamaqua	PA	0	2	One employee was manually dumping magnesium powder into a pneumatic feed that would feed larger particles to a hammermill. Another employee was sweeping. The magnesium dust ignited and caused a flash fire.	Magnesium dust	Metal	Pneumatic feed; hammer mill	Nonferrous foundaries	Primary metal industries	Unknown	NA		
70	1990	1990-9-27	Pekin	IL	0	0	Dust explosion		Food		Wet Corn Milling	311221	Hot Metal	Minor	Bucket Elevator	

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71	1990	1990-10-22	Corcoran	CA	0	1	Employee was operating a gin when the battery condenser became plugged. To unplug it, he ascended to the top of the battery condenser, opening the top and bottom doors, and then returned to the top door. He felt air coming up from the machine. The cotton dust inside the condenser erupted in flames, sending a flash of flames to the ceiling.	Cotton dust	Textile	battery condenser	cotton ginning/ agriculture services	Textile products	Unknown	NA	Production	Cleaning
72	1990	1990-11-5	Grand Rapids	MI	0	0	Dust explosion		Food		Bulk Flour Station		Fire	Minor	Storage Bin	
73	1990	1990-11-9	Baltimore	MD	0	1	Chemetal employee was working with welding contractor, attaching guardrails to a fixed platform and ladder. Sparks ignited a garbage bag, which was removed; however, a spark entered the dust collector and ignited the cloud inside. Chemetal used fire extinguisher; then an explosion occurred.	Metal dust	Metal	welding device; dust collector	Electrometallurgical Products	Primary metal industries	Fire	NA		
74	1990	1990-11-27	Franklin	VA	2	0	Dust was coming from the Baur filter of the south tower. Two employees were dispatched to the tower. They removed the door of the Baur filter and were attempting to unplug the filter, when they became engulfed in flames. Sawdust from the open door of the filter and dust from the air outlet created a dust cloud that infused the tower and filtered down to the hot surface (742-810 degrees Fahrenheit) of the dust system and ignited.	Saw dust	Wood	Pneumafil Baur filter	reconstituted wood products	Lumber & wood products	Hot surface	NA	Production	Cleaning
75	1991	1991-4-1	Keokuk	IA	0	0	Dust explosion		Food		Starch Plant	31122	Unknown	Moderate	Dust Collector	
76	1991	1991-4-11	Veneta	OR	0	1	An employee was inside a baghouse, cleaning the bags that are used to remove wood dust and particulates as part of a plant's wood dust exhaust system. Process involves entering baghouse through access hole located toward bottom of the funnel-shaped structure and manually shaking the cloth bags. Employee entered by a ladder inserted through access hole. A rubber-handled trouble light was attached to the end of the ladder, extending outside the structure. Wood dust falling through the access hole was ignited by the light; fire instantly spread through the interior of the baghouse.	Wood dust	Wood	bag house, rubber-handled trouble light, dust collection system	sawmill	Lumber & wood products	Hot surface	NA	Production	Cleaning
77	1991	1991-6-6	Santa Fe Springs	CA	1	1	An explosion occurred at the granulator in a wet blend area. Sodium chlorite (NaClO ₂), CAS#7758-19-2, was found to be in use at the work site.	Sodium chlorite	Inorganic	granulator	pharmaceutical preparations	Chem Manufact - Pharmaceutical Preparations	Unknown	NA	Production	Unknown
78	1991	1991-6-12	Littleton	NH	0	1	An employee was feeding 400 lb of granular polyaluminum methyl styrene (CAS 25014-31-7) through a micropulverizer (equipped with a .032 in. screen) into a dust collector. The dust collector unit has a continuously self-cleaning bag filter located inside the building and had no provision for explosion relief or venting. Apparently a piece of metal between 1 and 2 in. got past the magnet in the micropulverizer, ignited the dust in the system, and caused a fire and explosion that blew open the access door to the dust collector.	Polyaluminum methyl styrene dust	Plastic	Mikropal #3 micropulverizer (equipped with a .032 in. screen), Dust collection system	special industry machinery	Equipment manufacturer - industrial	Metal strike	NA	Production	Loading/unloading
79	1991	1991-9-1	Las Vegas	NM	1	2	A dust explosion occurred when 3 employees were repairing a broken conveyor belt that runs inside a covered conveyor.	Wood dust	Wood	conveyor belt	reconstituted wood products	Lumber & wood products	Unknown	NA		
80	1991	1991-9-21	Gardena	CA	0	2	An employee was cutting the metal rod of a machine press with an acetylene torch while another employee was on a forklift holding the machine press steady. As the metal rod was totally cut off, the forklift jerked and a cloud of dust that had accumulated on top of the lighting fixture drifted downward. As the dust came in contact with the acetylene torch flame, it ignited and formed a fireball that burned both employees.	Metal dust	Metal	machine press, acetylene torch	Plastics Materials and Basic Forms and Shapes	Rubber & plastic products	Flame	NA	Production	Repair/modification
81	1991	1991-9-24					Information not cleared for public release		Food		Cereal Plant	31123	Spark	Minor	Dust Collector	
82	1991	1991-12-17	Romeo	MI	0	11	An explosion resulted as a spark created by a worker with an allen wrench who was turning a screw to adjust a machine. The spark ignited some propellant dust and a vacuum system carried the fire to another room where a barrel of dust exploded.	Sodium Azide	Inorganic	Machine/Vacuum system			Spark from tool		Production	Maintenance

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83	1992	1992-6-3	Center Falls	RI	0	2	Dust explosion		Food		Toy Mfg.	339932	Unknown	Minor	Storage Bin		
84	1992	1992-7-31	Baltimore	MD	0	1	On Thursday July 30th a panel door blew off the dust hopper and the unit was shut down. Metal dust was still smoldering within the equipment on Friday when two maintenance employees attempted to replace collection bags within the equipment. Opening the hopper caused air to ignite the metal dust that was smoldering. A flash fire occurred.	Ferromanganese	Metal	hopper	Electrometallurgical Products	Primary metal industries				Dust Collector	Maintenance
85	1992	1992-10-3	Gary	IN	1	0	An employee was dumping powdered magnesium into a mixer on a platform. A flash fire occurred when a static spark from the dust collector hose ignited a suspension of magnesium above the mixer opening. The magnesium suspension was created when the second drum was dumped. The employee either jumped or fell to the concrete floor, gashing his head. He suffered third-degree burns over more than 90 percent of his body. He was taken to the Chicago Burn Center, where he died later that day.	Magnesium dust	Metal	mixer, dust collector hose	industrial furnaces and ovens	Equipment manufacturer - industrial	Static	NA	Production	Loading/unloading	
86	1992	1992-11-18	Rapid City	SD	0	2	Two employees were operating and monitoring a self-fed industrial wood sanding machine used in a particleboard production process. The shaved wood particles were collected by a pneumatic extraction system and transported to pollution control equipment consisting of a cyclone and baghouse (filter). An ignition source within the confined chambers of the pollution control equipment initiated a wood dust explosion. The explosion and fire ball propagated backward through the dust extraction system and entered the work area.	Wood dust	Wood	Dust collection system	reconstituted wood products	Lumber & wood products	Unknown	NA			
87	1992	1992-12-4	Beaufort	NC	0	5	A wood silo fire was reported on December 2, 1992 and continued through December 4, 1992, at silo #2. Attempts were made on Wednesday and Thursday morning to mechanically remove the embers and material inside the silo, but the attempts were unsuccessful. Access doors were then opened and the material was removed manually by members of the fire department and employees and management of Atlantic Veneer. On Friday morning, employees were cleaning out silo #2 and removing material when wood dust inside the silo ignited and shot out of the west side access door approximately 83 ft. No employees were wearing protective clothing.	Wood dust	Wood	Silo	hardwood veneer and plywood manufacturer	Lumber & wood products	Fire	NA	Storage	Cleaning	
88	1993	1993-1-6	Deer Park	NY	2	2	At approximately 2:00 a.m., four employees were at work during the night shift in a factory when an explosion of unknown origin occurred. The explosion blew out concrete block walls and engulfed the factory in flames and smoke. Two of the employees escaped through an opening created by a downed wall. They were injured, but did not require hospitalization. The other two died of multiple injuries and smoke inhalation. Exit doors were kept locked and latched during the night shift.	Vitamin dust	Pharmaceutical	Oven	vitamin and food supplement manufacturer	Chem Manufact - Pharmaceutical Preparations	Flame	NA	Production	Capsulation	
89	1993	1993-2-8	Ashland	NH	0	8	An ignition source, probably a saw, caused a small fire and/or deflagration at the dust collection system baghouse. A low-pitch rumble was heard by employees, who then saw a large volume of dust blow out of the return air ducts, followed by a flame. A secondary explosion occurred, and the resulting pressure wave pushed out a section of wall in the opposite end of the plant.	Wood dust	Wood	Diehl ripsaw, dust collection system	shoe manufacturing	Lumber & wood products	Unknown	NA	Production	Cutting	
90	1993	1993-3-21	Cedar Rapids	IA	0	0	Dust explosion		Food		Wet Corn Milling	311221	Unknown	Minor	Dryer		
91	1993	1993-3-24	West Columbia	SC	2	2	A partially completed, electrically controlled supply line from a holding tank to a mixing tank was filled with dry terephthalic acid (TPA) up to a closed valve. Employees were assigned to cut out a section of steel grate above the mixing tank for access. The cut was being made with an air arc gauge with Plasmarc and Mappgas. The tank was under the supply line. The valve was inadvertently opened, releasing TPA dust into the atmosphere where the cutting was conducted. This caused an explosion and fire, in which two employees were killed and two others injured.	Dry Terephthalic acid dust	Plastic	air arc gauge with Plasmarc and Mappgas; mixing tank	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers	Chem manufacture - Plastics materials & synthetic resins	Spark	NA	Production	Repair/modification	

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92	1993	1993-4-26	Westbury	NY	0	0	Oven fire; cause unknown although suspected to be caused due to accumulation of combustible dust	Vitamin dust	Pharmaceutical	oven	vitamin and food supplement manufacturer	Chem Manufact - Pharmaceutical Preparations	Unknown	NA	Production	Capsulation
93	1993	1993-5-12	Lowell	IN	0	1	An employee was preparing to dump a bag of resin into a hopper with a forklift when the resin reclaim unit blew out. The dust ignited in the duct system and traveled to the reclaim unit, where the blast engulfed the area. The initial spark may have occurred from a steel-on-metal spark in the LaRouche machine or an overheated bearing in the air-lay machine.	Resin dust	Plastic	Dust collection system, LaRouche machine, air-lay machine	manufacturer of pottery products	Stone, clay, glass, & concrete products	Metal strike	NA	Production	Loading/unloading
94	1993	1993-5-17	Owatonna	MN	1	0	Dust explosion		Food		Food Plant	3119	Unknown	Severe	Top of Storage Bins	
95	1993	1993-9-3	Swissvale	PA	1	0	An employee poured approximately 21 lbs of highly explosive aluminum powder into a rotating metal bucket that contained other powdered metal pigments. During the pouring, a dust explosion and fire occurred. Possible explanation: a buildup of static charge occurred during the pouring of the powder in combination with dust conditions in the metal rotating bucket.	Aluminum dust	Metal	Metal bucket	manufacturer of pressed and blown glass	Stone, clay, glass, & concrete products	Static	NA	Production	Loading/unloading
96	1993	1993-9-27	Klamath Falls	OR	0	1	An employee was blowing down wood dust that had accumulated in a raw material storage area of a particleboard plant. During this time, a wood dust fire had started in another portion of the plant, which soon traveled to the area where he was working. A secondary wood dust explosion and fire resulted.	Wood dust	Wood	Unknown	industrial and personal paper products	Lumber & wood products	Unknown	NA	Storage	Cleaning
97	1993	1993-10-25	Hamilton	NJ	0	9	Dust explosion		Food		Candy Mfg.	31133	Fire	Moderate	Dust Collector	
98	1993	1993-12-2	Abingdon	MD	0	1	A barrel of aluminum dust stored adjacent to electrical panels somehow became contaminated with water, which exothermically reacted with the aluminum dust to form hydrogen gas. The lid blew off, and a cloud of the dust exploded. Nearby combustible material ignited.	Aluminum dust	Metal	Barrel	metal stampings	Fabricated metal products	Explosion	NA		
99	1994	1994-4-21	Cedar Rapids	IA	0	0	Dust explosion		Food		Bakery Mix Plant	311822	Sparks	Moderate	Dust Collector	
100	1994	1994-4-21	Owensville	IN	0	22	A smoldering coal fire in a turbine generator hopper was being monitored. Fire hoses were pumping water down 19-inch-wide floor openings, which were normally covered, into the hopper, which was in a bunker room on the south side of a coal tripper. The fire escalated. Two yard supervisors were at the bunker room door handling fire hoses. Four yard workers were using the fire hoses to pump water into the hopper. At 9:00 AM, just as a township fire fighter walked through the east door of the ninth floor bunker room, an explosion occurred.	Coal dust	Coal	turbine generator hopper	Electric Services	Electric Services	Flame	NA	Production	Extinguishing fire
101	1994	1994-5-28	Cedar Rapids	IA	0	0	Dust explosion		Food		Starch Plant	31122	Hot Metal	Moderate	Blender	
102	1994	1994-6-1	Baltimore	MD	0	3	A custom cabinet making business was severely damaged by a dust fire when sawdust ignited during a sanding operation.	sawdust	Wood	Sander	Cabinet manufacturer	Furniture & fixtures		\$50 K	Production	Sanding
103	1994	1994-6-16	Shakopee	MN	0	2	Dust explosion		Food		Malt Plant	311213	Unknown	Severe	Bucket Elevator	
104	1994	1994-7-16					Information not cleared for public release	Textile dust	Textile	grinder, dust collection system	textile machinery	Textile products	Spark	NA	Production	Cleaning
105	1994	1994-9-14					Information not cleared for public release	Titanium dust	metal	rubber hoses and grinder	Jet Parts Plant	Manufacturing	grinding			

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106	1994	1994-9-16	Mesa	AZ	1	6	Contractors were doing remodeling work in a press bay at TRW. An employee was grinding on a metal duct that was contaminated with sodium azide, causing an explosion.	sodium azide	chemical	metal duct	Vehicle parts and accessories	Manufacturing	grinding		press bay	remodeling work in a press bay; grinding metal duct contaminated with sodium azide
107	1994	1994-11-20	Lenoir	NC	2	4	The incident occurred in the particle board manufacturing portion of the plant. Raw dust was taken in and redefined into finished sheets of particle board. It was determined that there were three potential sources of ignition: a stray piece of metal in a grinding machine that sparked, a leak in an overhead oil line that atomized and subsequently ignited, or a natural gas leak in the vicinity of the thermal transfer unit that was ignited explosively. Following the initiating event, four explosions occurred throughout the facility. These explosions were caused by dust in the facility that was placed into suspension in the air by each prior explosion. The dust in suspension then came into contact with an ignition source and ignited explosively. It was observed that there were large amounts of dust throughout the facility, and there were minimal efforts to control ignition sources.	Wood dust	Wood	None	particle board manufacturer	Lumber & wood products			Production	
108	1994	1994-12-16	Sacramento	CA	0	2	Employees were inspecting a dust collection system bag house. After taking oxygen readings, both began work in the collector and bag house. A 110 volt halogen light was being used; it became hot and ignited the dust, causing an explosion/fire.	Wood dust	Wood	Halogen light, Dust collection system	Facilities support services	Unknown	Hot surface	NA		Inspection
109	1995	1995-1-4	Louisville	KY	1	0	An employee was attempting to change an aluminum powder sensor for a storage/convey tank. The electrical power to the sensor was still present when the unit went into operation and generated an aluminum cloud. The combination of these factors caused two successive explosions and ensuing fires in which the employee was killed. Electrical test instruments belonging to the employee were found in another location. The electrical power had not been eliminated and the pneumatic energy source had not been identified and controlled.	Aluminum dust	Metal	storage/conveyor tank	manufacturer of aluminum powder and paste	Primary metal industries	Unknown	NA	Storage	Repair/modification
110	1995	1995-2-28	Olney	IL	2	25	27 employees were working inside a building that contained various equipment for assembling aluminum alloy bicycle rims, including 3 conveyor-fed booths in which brushing and polishing were done. The booths had exhaust systems that deposited the aluminum dust into an enclosed basement. Heat or sparks from wheels that were being polished or brushed caused a fire that traveled from a booth to the basement, resulting in explosion and additional fire.	Aluminum dust	Metal	conveyor booths	motorcycles, bicycles, and parts	Equipment manufacturer - transportation	Metal strike	NA		
111	1995	1995-3-24					Information not cleared for public release		Food		Wet Corn Milling	311221	Explosive	Moderate	Storage Silo	
112	1995	1995-3-25	Blacksburg	VA	0	1	A spark ignited aluminum dust in a hopper inside the plant. A contractor was grinding steel when sparks from his operation started the blaze.	Aluminum dust	Metal			Fabricated metal products			Production	Sanding/grinding
113	1995	1995-5-22	Morrisville	PA	0	1	On May 22, 1995, an employee was using a steel hoe to clean out the flaker, a piece of processing equipment in the phosphorus pentasulfide unit at a plant in Morrisville, NJ. When the unit door was opened, air entered the flaker, ignition occurred, and a flash fire propagated through the cleanout door.	Phosphorus pentasulfide	Inorganic	steel hoe, flaker	industrial inorganic chemicals	Chem manufacture - Industrial inorganic chemicals	Spark	NA	Production	Cleaning
114	1995	1995-7-30	Decatur	IL	1	0	An employee was on a platform above a bulk trailer, unclogging dry starch from a flexible hose. A dust cloud was created and ignited by an unknown source. A flash fire explosion occurred.	Starch dust	Food	Flex hose	wet corn milling	Food products	Unknown	NA	Storage	Loading/Unloading

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115	1995	1995-9-26	Cedar Rapids	IA	0	0	Dust explosion		Food		Animal By-Product Plant	311613	Spontaneous Combustion	Minor	Storage Bin	
116	1995	1995-9-29					Information not cleared for public release	Sawdust	Wood	Bin	lumber/wood products	Lumber & wood products				
117	1995	1995-11-16	Spokane	WA	0	0	Two bags of aluminum dust caught fire. The 2,000-pound bags of aluminum dust were stacked inside the warehouse. Origin of fire unspecified.	Aluminum dust	Metal		aluminum metal product manufacturer	Fabricated metal products	Unknown		Storage	Unknown
118	1995	1995-12-11	Muscataine	IA	0	0	Dust explosion		Food		Wet Corn Milling	311221	Unknown	Moderate	Dust Collector	
119	1995	1995-12-11	Lawrence	MA	0	37	An electric spark ignited a combustible nylon fiber dust cloud in the hopper room at the beginning of a production line. The hopper room is where nylon fibers are applied to cloth backings (for upholstery & clothing) using an electric field. This process is called flocking. The explosion/fire moved throughout much of the production lines. USFA technical report states: There are many theories of how the explosion originated. The flocking process that occurred in the hopper room was implicated, however there was also evidence to suggest that the origin was related to the dryers or the oil heating system. At the time of this report, the official cause of the explosion has not been determined.	Nylon fiber dust	Plastic	hopper	manufactures various types of textile products for upholstery and clothing	Textile products	Spark	NA	Production	Nylon flocking
120	1995	1995-12-13	Fitzwilliam	NH	0	0	A spark from a sander likely initiated a dust explosion in the facility, which manufacturers plastic poles (for flags, masts, etc.). The spark apparently entered the plant's dust collection system and ignited plastic resin dust. The explosion blew open a factory door about eight feet from the sander. It damaged ductwork and the outside dust collector. It also blew out a vent on top of the building.	Plastic resin dust	Plastic	Dust collection system	Plastic manufacturing	Rubber & plastic products	Spark	NA	Production	Sanding/grinding
121	1996	1996-1-9	Lakeland	FL	1	0	An employee was standing on a structure that supported a bin containing approximately 75 kg of generate (which was a mixture of sodium azide, manganese dioxide, potassium nitrate, silica, aluminum oxide and magnesium silicate). Ultimately it was to be made into pellets used in automobile air bags. The employee was using a broomstick, attempting to poke through an obstruction in the flowing pelletizer. A fire erupted, ignited by an unknown source, and at least one explosion occurred.	generate (mixture of sodium azide, manganese dioxide, potassium nitrate, silica, aluminum oxide and magnesium silicate)	Inorganic	pelletizer	motor vehicle parts and accessories	Equipment manufacturing	unknown	NA	production area	pelletizing
122	1996	1996-1-24	Hayden	AZ	0	3	A major explosion occurred in an Electric Slag Cleaning Vessel (ESCV) in the copper smelting process. The ESCV is a furnace that uses carbon electrodes to heat a molten mixture. The first explosion likely occurred b/c of the removal of electrodes from the molten mixture, which caused a suspension of cokedust (a dust added to the molten mixture), which ignited a second major explosion.	Coke dust	Coal	Unknown	copper smelting	Primary metal industries	Fire	NA	Production	Copper processing

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123	1996	1996-2-27					Information not cleared for public release	Coal dust	Coal	Dust collection system	Electric Services	Electric Services	Unknown	NA	Production	Repair/modification
124	1996	1996-3-4	Richmond	VA	0	1	Faulty parts supplying tobacco dust to a dust collector is believed to have caused the fire.	Tobacco dust	Tobacco	dust collector	tobacco processing plant	Tobacco products				
125	1996	1996-4-27	Ukiah	CA	1	0	An employee was blending dry metal powder in an open blender in the powder testing/training area of the plant. He was using an equipment prototype when the dry metal powder suspended in the air resulted in a flash fire.	Metal dust	Metal	open blender/mixer	Industrial process furnaces and ovens	Equipment manufacturer - industrial	Unknown	NA	Production	Testing
126	1996	1996-6-25	Gallatin	TN	0	1	Sparks from an abrasive disc cutting operation were drawn into the dust collection piping system. Sparks then entered the dust collector itself, where they ignited the steel powder inside.	Metal dust	Metal	Cutting device, dust collection system	primary metal products	Primary metal industries	Spark	NA	Production	Cutting
127	1996	1996-7-10					Information not cleared for public release		Food		Brewery	31212	Static Electricity	Minor	Storage Bin	
128	1996	1996-7-20					Information not cleared for public release	Sugar dust	Food	screw conveyor, silo	Sugar Plant	311313	Hot Metal	\$44.0 million	Tunnel under bins	Loading/unloading
129	1996	1996-7-30	Dublin	VA	0	1	Employee was mixing in phenolic resin within a tote as part of a blending operation. A fire was started by a spark from hitting a screen or static. Dust particles caught fire quickly, but were extinguished by employees.	Phenolic resin dust	Plastic	Blending Tote	automobile brake pads and lining manufacturer	Equipment manufacturer			Manufacturing	Blending
130	1996	1996-8-14	Albuquerque	NM	2	0	Two employees were using portable fire extinguishers and buckets of water to extinguish smoldering sawdust that was falling out of an overhead storage hopper at a sawmill. The plant supervisor was attempting to dislodge smoldering sawdust that was stuck to the hopper's interior side walls. The two employees and the supervisor were under the hopper when the sawdust fell out in a fireball, engulfing them in flames. The two employees were killed.	sawdust	wood	hopper	sawmills and planing mills, general	lumber & wood products	fire	NA	storage area	attempting to put out smoldering sawdust
131	1996	1996-11-5	Lindon	UT	0	2	Employees were blending magnesium and lime in a large roller drum and hopper. The mixture was then taken from the hopper, up an auger, to a shaker unit, and then dumped onto a belt that carried it into a 3-compartment "pig trailer". Dust levels were controlled by a local exhaust ventilation system. An explosion and flash fire occurred within the hopper, traveled to the roller drum, the shaker unit, the pig trailer, and the open drums of magnesium. Fire put out using talc powder.	Magnesium dust	Metal	hopper, roller drum, shaker unit, "pig trailer"	Chemical preparations facility	Chem manufacture - Miscellaneous chemical products	Unknown	NA	Production	Loading/Unloading
132	1996	1996-12-24	Pittsburgh	PA	1	0	Employee was using a skip hoist and monorail system to raise a 1,000 lb (55 gallon) drum of metal iron dust. The drum overturned and dust spilled throughout the work area, including an operating fork lift, and a dust explosion occurred.	Iron dust	Metal	skip hoist, monorail system, 55 gallon drum	primary metal products	Primary metal industries	Unknown	NA	Production	Loading/Unloading
133	1997	1997-1-7	Rockford	IL	0	5	Employees were spray painting in a powder paint booth while a coworker was welding a dust collector for the booth. The powder paint ignited in the dust collector and flashed through the duct work into the booth. The powder paint in the booth then ignited, resulting in an explosion	Paint powder	Paints	dust collection system, welding device	motor vehicle parts and accessories	Equipment manufacturer - transportation	Unknown	NA	Production	Spray painting
134	1997	1997-1-10	Decatur	IL	0	5	Dust explosion		Food		Wet Corn Milling	311221	Unknown	Unknown	Pellet Dryer	
135	1997	1997-2-13	Brooklyn	OH	0	2	A possible fire or spark was produced by a buffing machine(s), where it apparently got into the dust exhaust system. Once this spark or fire got into the exhaust system, it got into the baghouse, caused a small explosion, whereupon the dust in the baghouse was shaken loose and another much larger explosion occurred, sending the force of the explosion and a resultant fire back through the exhaust system. Two employees were severely burned.	Metal dust	Metal	electroplating, plating, polishing, anodizing, and coloring	buffing machines, dust exhaust system, baghouse, ductwork	Fabricated metal products		GDC #139		

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136	1997	1997-4-16	Moosic	PA	2	0	Two employees were pushing a rail cart containing approximately 1,000 lb of black powder from one building to another when the powder deflagrated. Both employees were killed and a nearby process building was destroyed.	black powder	Explosives	rail cart			black powder	Process building destroyed		Pushing rail cart between buildings
137	1997	1997-5-16	Vinita	CA	0	1	Dust explosion		Food		Bakery	311812	Extension Light	< \$50,000	Storage Silo	
138	1997	1997-5-18	Richfield	CA	0	6	Dust explosion		Food		Walnut Hulling	311999	Fire	Severe	Silo	
139	1997	1997-6-17					Information not cleared for public release		Food		Cereal Plant	31123	Unknown	Minor	Hammer Mill	
140	1997	1997-7-30	Cedar City	UT	1	4	WEC is the Utah operations of Las Vegas-based American Pacific Corp. (PEPCON) At the time of the accident, workers may have been trying to clear a clogged dust collector. Dust created during the process contains some of the explosive material.	Ammonium Perchlorate	Chemical	Outside the batch dryer building	Ammonium Perchlorate Plant	chemical facility			Batch dryer building	workers clearing a clogged dust collector
141	1997	1997-9-12	Kearny	NJ	0	1	A maintenance mechanic was arc welding approximately 31 inches from a cardboard box that contained benzoyl peroxide powder. The welding arc struck the box and the powder flashed over. Employee suffered burns.	benzoyl peroxide	Organic oxidizer	welder	specialty cleaning, polishing, and sanitation preparations	Chem manufact	hot surface	NA		maintenance
142	1997	1997-9-30	Plainfield	CT	0	3	Three employees were present when a fire in the ventilation ducts mixed with combustion products from burning nylon flock. There followed an explosion, and all three workers were engulfed in a cloud of black sooty smoke. All treated in hospital for smoke inhalation.	nylon flock	Plastic	ventilation ducts	finishers of broadwoven fabrics of manmade fiber and silk	Textile products	fire	NA	Production	
143	1997	1997-10-20	Mankato	MN	0	0	Dust explosion		Food		Soybean Processing	311222	Fire	Moderate	Dust Collector	
144	1997	1997-11-24	Holmesville	OH	0	2	An explosion and fire occurred in the ductwork of the dust collection system associated with the belting of the aluminum alloy firehose couplings (which also contain magnesium).	Aluminum dust	Metal	hardware	dust collection system, ductwork	Fabricated metal products		GDC #127	Production	
145	1997	1997-12-18					Information not cleared for public release	Aluminum dust	Metal	thermal aluminum spray coating guns	metal coating and allied services	Fabricated metal products	Unknown	NA	Production	Spary coating
146	1998	1998-1-5	Latrobe	PA	0	0	Firefighters used dry chemicals and sand to put out a particle dust fire, which was contained inside a dust collector (round, about 10-ft in diameter and 15-ft tall).	Metal dust	Metal	Dust collection system	steel manufacturer	Primary metal industries			Production	
147	1998	1998-3-24	Lenoir	NC	0	2	A fire started in a metal shell containing a suction booster/blower and sparks were transferred through a mating flange gasket into the dust collection system. An alternate explanation for the incident is that the external heat from the fire transferred to the internal surfaces of the blower, thus sending sparks into the dust collection system.	Wood dust	Wood	Dust collection system; mating flange gasket	wood/household furniture	Furniture & fixtures	Fire	NA	Production	Dust collection
148	1998	1998-3-27	unknown	NH	0	0	The fire started in an equipment when wiring grounded out on conduit and spread into the attic in which there was a layer of sawdust. The blaze went undetected until the truss structural members collapsed.	Saw dust	Wood		firearms manufacturer	Fabricated metal products		\$5.0 million		
149	1998	1998-4-11	Oroville	CA	0	1	Dust explosion occurred while employee was operating a sander in a fiberboard area.	Wood dust	Wood	sander	softwood veneer and plywood	Lumber & wood products	Unknown	NA	Production	Sanding/grinding

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity
150	1998	1998-4-13	Wheeling	IL	0	0	An explosion occurred in the facility's dust collecting exhaust system (which sits outside the building) used to gather rubber dust. Flames from the blast shot into the building through a duct. The facilities 60 employees were evacuated. Unknown initiating event.	Rubber dust	Plastic	Dust collection system	Fabricated Rubber Products	Rubber & plastic products	Unknown	\$100 K		
151	1998	1998-5-4	Garland	TX	1	1	Two employees of a steel recycling crew were removing an overhead crane and beam hoisting assembly. One of the employees was in a manlift (3' x 10' x 4.6') about 8 feet above the ground. He was standing on the lift above a storage bin filled with highly combustible magnesium shavings, when he momentarily lit the cutting torches. Sparks from the torch ignited the shavings, which burned in excess of 500 degrees F. Both employees were burned, one fatally.	magnesium	metal	manlift; storage bin	scrap and waste materials	wholesale trade-durable goods	hot surface	NA	Storage	Cutting
152	1998	1998-5-17	Murfreesboro	TN	0	2	Dust explosion		Food		Frozen Dough	311813	Halogen Lamp	< \$50,000	Storage Bin	
153	1998	1998-7-1	Stockton	CA	0	1	Employee #1 as assisting a co-worker with trouble shooting a grinder, and clean up of a sawdust build-up in the said room. An explosion occurred in the baghouse and continued to the grinder resulting in serious burns injuries to the employee.	Wood dust	Wood	baghouse, grinder	Wood products	Lumber & wood products	Unknown	NA	Production	Sanding/grinding
154	1998	1998-7-1	Cleveland	MS	0	4	A flash fire occurred atop a suspended-grid-ceiling. The existing support steel roof was being raised to accommodate new (taller) injection molding equipment. Hot welding slag fell from an I-beam being installed, which ignited the dust that had previously settled on top of the ceiling tile, starting a fire. An employee attempted to put fire out with foot -- a flash fire resulted, consuming the suspended dust particles.	Polypropylene dust	Plastic	Injection molding	manufacturer of surgical and medical instruments	Equipment manufacturer - medical	Hot surface	NA	Production	Repair/modification
155	1998	1998-7-7	Wichita	KS	0	1	Dust explosion		Food		Aircraft Plant	336411	Electric Sparks	Minor	Polishing Room	
156	1998	1998-7-28	Hammond	IN	0	17	A coal dust explosion ignited at a Tripper, and propagated throughout the coal handling areas. An explosion and fire occurred on a coal fired electric generating station. The cause of the incident may have been due to coal dust and at the time of the incident an outside contractor was vacuuming in the area where possible ignition may have occurred.	Coal dust	Coal	Tripper, Vacuum	Electric Services	Electric Services	Unknown	NA	Production	Coal processing
157	1998	1998-8-10	Cerritos	CA	0	1	Employee observed excessive dust coming out of a sander, indicating a problem with the dust collection system. Employee went to inspect Bag house. Using a wooden ladder to gain access to the top of the dust collector frame, employee was about to shake air relief bags when an explosion in the baghouse occurred.	Wood dust	Wood	sander, dust collection system	manufacturer of drapery hardware, blinds and shades	Furniture & fixtures	Unknown	NA	Production	Sanding/grinding
158	1998	1998-8-28	Sugarland	TX	0	1	Dust explosion	Sugar dust	Food		Sugar Plant	311313	NA	Unknown	NA	
159	1998	1998-8-28	?	TX	0	16	The fire started in the plant's manufacturing area when polyurethane dust ignited and caused an explosion, which was followed by a fire in the dust collector that spread throughout the structure by way of the air handling ducts.	Polyurethane dust	Plastic	dust collector; air handling ducts	sports equipment manufacturer	Equipment manufacturer - industrial	Unknown	\$5.0 million	Production	Unknown
160	1998	1998-10-12					Information not cleared for public release	Wood dust	Wood	Unknown	lumber/wood products	Lumber & wood products	Fire	NA	Power	Extinguishing fire
161	1999	1999-2-1	Dearborn	MI	6	30	A blast occurred while 3 maintenance men were working on the boiler. The blast could have occurred by pressure building up inside the boiler or a spark that ignited gas or coal-dust that fuels the massive machines.	Coal dust	coal	boiler	Power plant	Electric Services	Flame		Production	Maintenance
162	1999	1999-2-17	Quincy	IL	1	0	Employee was using an electric sander, creating magnesium dust. The sander caught on fire, and the employee dropped it onto the table, which was covered in the dust. A flash fire occurred.	Magnesium dust	Metal	Black & Decker electric sander, model 7441 (with 80 grit sandpaper)	plating and polishing	Fabricated metal products	Fire	NA	Production	Sanding/grinding

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity	
163	1999	1999-2-25	Springfield	MA	3	9	Over a period of time resin dust accumulated in the ducting of various equipment. An oven burner ignited either a gas-air mixture (following a temporary flame out) or a dust cloud (shaking/striking of dust collection line flex hose). This caused flame and a pressure wave to enter the main dust collection network and the dust provided fuel to propagate the explosion.	Phenol-formaldehyde resin dust	Plastic	Oven; dust collection system	Grey and duct tile foundries	Primary metal industries	Fire	GDC #99			
164	1999	1999-4-5	Scottsboro	AL	1	1	A flash fire occurred during the processing of a military grade aluminum powder. The powder was being manually dumped into a bucket elevator and a shovel was in use to break up the lumps. The shovel lodged in the elevator and caused the elevator to choke; as dust levels built up, ignition occurred.	Aluminum dust	Metal	bucket elevator and shovel	nonferrous metals	Primary metal industries	Unknown	NA	Production	Loading/Unloading	
165	1999	1999-4-24	Stuart	VA	0	4	Four employees were working near the out-feed conveyor at a silo when there was an explosion and fire in the silo. They sustained burns to the arms, face, and back, for which they were hospitalized.	Wood dust	Wood	Silo	reconstituted wood products	Lumber & wood products	Unknown	NA	Storage	Loading/unloading	
166	1999	1999-8-12					Information not cleared for public release	Chlorate dust	Inorganic	Dust collection system	Chemical preparations facility	Chem manufacture - Miscellaneous chemical products	Unknown	NA			
167	1999	1999-8-16					Information not cleared for public release	Coal dust	Coal		Power plant	Electric Services			Production	Crushing	
168	1999	1999-9-22	Bethlehem	NJ	0	2	This was the second fiery blast in the plastic-processing factory in two months. A spark or malfunction in a machine that grinds plastic into pellets caused the blast. The August 3rd incident also involved a similar cause: A spark ignited plastic dust that had been left over after processing.	plastic dust	plastic	machine that grinds plastic pellets	Plastic manufacturing	Manufacturing	spark or malfunction				
169	1999	1999-10-3	Olathe	CO	1	0	Fires that originated on the press provided ignition sources for the combustible wood dust and other combustible process residues (which had accumulated in the upper levels of the press enclosure), thus causing an explosion.	Wood dust	Wood	wood press	manufacture of reconstituted wood products	Lumber & wood products	Unknown	NA			
170	1999	1999-10-4	Natchez	MS	0	1	An unknown ignition source ignited a cloud of rubber dust that formed when a rubber mixer machine malfunctioned	Rubber dust	Plastic	Rubber mixer machine	Tire manufacturer	Manufacturing	Unknown		Rubber mixer machine room		
171	1999		Albany	NY	0	0	"A dust-collector fines fire at the Albany Casting Plant was caused by housekeeping and a bad dust collector at a cost of \$250,000. No injuries" (Poulson, JOM, p. 15)		Metal								
172	1999		Albany	OR	0	0	"A fines fire at Gemeni, a powder processing plant in Albany, Oregon, was caused by static electricity from a bad electrical motor. There were excessive amounts of powder stored in the area. The cost was \$450,000; the company went out of business. No injuries" (Poulson, JOM, p. 15)		Metal								
173	2000	2000-1-22	Clovis	NM	0	3	Dust explosion		Food		Feed Warehouse		Welding/Cutting	Moderate	Bucket Elevator		
174	2000	2000-2-3	West Plains	MO	1	0	A fire occurred in the charcoal storage area. When the fire was believed to be out, an employee attempted to lower an overhead door. A flash fire occurred due to smoldering dust that was released into the air when the door was lowered.	Charcoal dust	Wood	Charcoal storage area	gum and wood chemicals	Chem manufacture - Industrial organic chemicals	Fire	NA			
175	2000	2000-2-3	Fort Wayne	IN	1	0	Employee was grinding magnesium parts on a type N Roto Clone grinding machine, when light fixtures fell from the ceilings, causing a spark that ignited the magnesium dust in the air and on the grinding machine.	Magnesium dust	Metal	Grinding machine	foundry (magnesium and aluminum)	Primary metal industries	Hot surface	NA			

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity
176	2000	2000-3-7	Kelseyville	CA	0	1	Employee was using vacuum system to extract metal discs from chemical reaction chamber at steam-powered electrical generation plant. Explosion occurred in the reaction chamber. Explosion caused by ignition of finely divided metal particles; ignition source probably a static spark -- system was not grounded or bonded.	Metal dust	Metal	Stretford style chemical reactor, used to clean steam and reduce SO2	electrical generation plant	Electric Services	Static			
177	2000	2000-3-16					Information not cleared for public release	Aluminum dust	Metal	Grinding machine,-dust collection system	metal fabrication and welding shop	Fabricated metal products	Metal strike			
178	2000	2000-3-22	Yonkers	NY	0	1	Dust explosion		Food		Sugar Processing	311312	Unknown	Minor	Unknown	
179	2000	2000-3-23	Surgoinsville	TN	0	1	Dust explosion		Food		Fiber Processing Plant		Fire	Moderate	Grinding Room	
180	2000	2000-3-24					Information not cleared for public release	Metal dust	Metal	Bader polisher, dust-collection hopper	machining of metal tubes	Primary metal industries	Metal strike	NA		
181	2000	2000-4-4					Information not cleared for public release	Saw dust	Wood	chop saw	Metal coating allied services	Fabricated metal products	Metal strike	NA		
182	2000	2000-5-4					Information not cleared for public release		Food		Food Ingredient	311991	Unknown	Moderate	Unknown	
183	2000	2000-6-12					Information not cleared for public release	calcium stearate, stearate acid, paraloid K175 modifier	Plastic	mixer, series of screw conveyors, metal silos	plastics products	Rubber & plastic products	Unknown	NA		
184	2000	2000-7-5	Elkton	MD	0	1	Employee was working on a reported defective pneumatic roof mounted conveyor system motor. The motor was reported as running rough and, while being examined, tripped the heater in the electrical starter. The employee then went inside the electrical room to manually shut off the standard duty disconnect switch. As he did this, a flash/explosion occurred, which proceeded to a portion of the surrounding electricals. The electrical room was covered in a fine cork dust (inadequate housekeeping).	Cork dust	Wood	pneumatic roof mounted conveyor system motor (Nu Vac); standard duty disconnect switch	Wood products	Lumber & wood products	Unknown	NA		
185	2000	2000-8-17	Middlefield	OH	0	1	A bearing froze up in the motor of a blade in a mixing vessel, causing a dust explosion.	Benzene sulfonylhydrazide dust	Plastic	mixing vessel	Chemical preparations facility	Chem manufacture - Miscellaneous chemical products	Hot surface	NA		
186	2000	2000-10-25	Millersburg	OR	0	4	A dust explosion was the likely cause of a fire. The fire was located in an area where particleboard is pressed into solid sheets. The particles used in the process are very fine and can explode when they are exposed to heat. After firefighters put out the fire, they remained extinguishing hot spots throughout the plant. Then a second dust explosion occurred (three hours after the first). No one was injured in the second fire.	Wood dust	Wood		particle board manufacturer	Lumber & wood products			Production	

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity
187	2000	2000-10-26					Information not cleared for public release	Plastic (toner) dust	Plastic	Dust collection system	Plastics materials and basic shapes	Rubber & plastic products	Unknown	NA		
188	2001	2001-1-10					Information not cleared for public release	Wood dust	Wood	storage silo	Burial caskets	Lumber & wood products	Metal strike	NA		
189	2001	2001-1-31	Atchison	KS	0	0	Dust explosion		Food		Packaging Warehouse	31122	Static Electricity	Moderate	Sifter	
190	2001	2001-2-14					Information not cleared for public release	Wood dust	Wood	Unknown	Reconstituted Wood Products	Lumber & wood products	Unknown	NA	Production	Unknown
191	2001	2001-3-14	Easton	MD	1	0	After mixing ingredients for a "flare ignition compound" (for use on road flares), an employee began cleaning the filling production area, dry mix room, and wet mix room. An explosion occurred in the outside dust collector. The collector contained airborne fines generated during both dry and wet mixing of the flare ignition compound. The fines contained varying amounts of Potassium Chlorate and Perchlorate with various dry fuel compounds.	Potassium chlorate/perchlorate dust	Inorganic	Dust collection system	Chemical preparations facility	Chem manufacture - Miscellaneous chemical products	Unknown	NA		
192	2001	2001-5-19	Chicago	IL	1	1	Workers were investigating alarms sounding on a cocoa bean roasting machine when the roaster exploded. The blast blew out the north-west wall of the facility.	Cocoa dust	Food	Oven	Chocolate factory	Food products			Production	Inspection
193	2001	2001-5-25	Gaylord	MI	0	6	Two separate, serious Incidents at particle board plant. A second explosion occurred the next day as fire fighters were trying to extinguish the first fire. The fire had spread to a silo containing wood chips 20 to 30 feet deep. When firefighters opened the silo to pour water on the flames, the sudden infusion of oxygen caused the second blast. One firefighter suffered first and second-degree burns, and five others were treated for smoke inhalation and minor injuries.	wood chips and dust	Wood	Silo	particle board manufacturer	Wood products	Wood Chips		Silo	Second explosion: fire extinguishing
194	2001	2001-8-29					Information not cleared for public release	Coal dust	Coal		electric services	Electric Services				
195	2001	2001-9-8					Information not cleared for public release		Food		Cereal Plant	31123	Sparks	Moderate	Dust Collector	
196	2001	2001-9-21	Wayland	MI	0	2	Dust explosion		Food		Milk Processor	311514	Fire	Minor	Dryer	
197	2001	2001-10-3					Information not cleared for public release	Zinc dust	Metal	Mechanical mixer	Chemical preparations facility	Chem manufacture - Miscellaneous chemical products	Unknown	NA	Production	Blending

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity
198	2001	2001-10-15	Las Vegas	NV	1	3	A fire occurred at a rocket propellant/motor manufacturing plant. Four employees were admitted to hospital for varying degrees of burn injuries. To date, of those four employees, two have been released, one is still in critical condition, and one has died due to thermal burns he sustained from the explosion/fire. Interviews of workers in the single use area stated the fire had started in the slot machine. The reported cause: a metal brush was placed against a metal carbide saw blade. Also, the table which the saw was attached was a ferrous metal. The saw was accidentally turned on starting up the slot machine and causing a spark at the inlet pipe to the vacuum cleaner. Propellant dust with ammonium perchlorate was at the saw blade, in the vacuum cleaner duct and/or storage receptable.	Propellant dust with ammonium perchlorate	Inorganic	Saw, vacuum cleaner	rocket propellant/motor manufacturing plant	Propellants & explosive manufacturing	Spark		Production	Cutting
199	2001	2001-12-11					Information not cleared for public release	Aluminum dust	Metal	dust collector	metal fabrication	Fabricated metal products			Production	Sanding/grinding
200	2002	2002-1-16	Marquette	MI	1	0	A coal-fired boiler was being brought on-line. The coal feeding system had not been purged properly. An excessive amount of coal dust left in the system ignited, causing an explosion.	Coal dust	Coal	coal-fired boiler, coal feeding system	Electric Services	Electric Services	Fire	NA		
201	2002	2002-1-23	Nebraska City	NE	0	13	A fire and explosion injuries 13 firefighters. The fire, which lasted three days, occurred in four old bins (previously used for grain storage) that contained "crumb rubber". The company shreds old tires, deep-freezes the chips and shatters them into fine pieces. The resulting product is used on playgrounds and in rubberized asphalt and athletic fields. The southeast bin blew (exploded) about 11 hours into the fire. Just before the blast, a loader had started removing tire chips from the bins while firefighters were dousing the outside of the bin with water. Firefighters turned off the water and started spraying liquid nitrogen inside the bins to displace the oxygen (nitrogen is used in the product's freezing process).	Rubber dust	Plastic	Tire bin	Tire recycling	Rubber & plastic products				
202	2002	2002-2-11					Information not cleared for public release		Plastic							
203	2002	2002-2-13					Information not cleared for public release	Coal dust	Coal	hopper	Electric services	Electric Services	Hot surface	NA		
204	2002	2002-4-14	Saylor Tow	IA	0	4	Four workers at a manufacturing plant just north of the city were recovering Sunday after being injured in an explosion triggered by dust. The blast happened Saturday morning at Dee Zee Manufacturing.									
205	2002	2002-5-16	Vicksburg	MS	5	7	Rubber dust explosion and fire after dust in Bagging Bin was ignited. The bin and the reversible screw conveyor suffered mechanical failure, allowing pressure waves and hot gases to exit the bin. Atmospheric dust ignited, and fire spread quickly through duct work and the rest of the plant, causing further fires and explosion.	Rubber dust	Plastic	Dust collection system, reversible screw conveyor	Fabricated rubber products	Rubber & plastic products	Hot surface	NA		
206	2002	2002-5-26	Moonachie	NJ	0	0	Dust collector fire and explosion	Coeffe	Food							
207	2002	2002-6-6	Hempfield	PA	0	3	A spark from a nearby machine apparently got into a dust collector, setting fire to cobalt and tungsten dust that was being collected to be recycled.	cobalt and tungsten dust	Metal							
208	2002	2002-6-10	Fletcher	NC	0	0	About 375 employees were evacuated from the furniture manufacturing plant after a fire broke out in a dust collection silo.		Wood							

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity		
209	2002	2002-7-19	Rock Hill	SC	0	0	A fire that started Friday evening on a conveyor belt moved into two of the plant's four silos, spurring the evacuation of about 30 employees. At about 6 p.m., plant employees heard an explosion that sounded like a loud pop. The fire, which likely started when a spark ignited dust on the conveyor system, moved into the two silos nearby. No one was injured in the fire, and only three employees were near the silos when the fire started. Plant manufactures acetate flake, a raw material used to produce acetate filament and acetate filter tow.	acetate flake	Plastic									
210	2002	2002-8-8	Millersburg	OR	1	3	Dust explosion		Food		Pelleting Plant	311119	Unknown	Severe	Unknown			
211	2002	2002-8-8	Clarksdale	MS	1	0	A flexible electrical cable used with a cotton compress conveyor was accidentally kicked by an employee; a spark resulted, igniting loose cotton dust around the conveyor, which spread to the bales of cotton and reached the ceiling of the warehouse.	Cotton dust	Textile	cotton compress conveyor	Farm product warehousing and storage	Packaging & storage	Unknown	NA				
212	2002	2002-8-25	Sevierville	TN	1	0	Explosion originated from inside a dry-cloth baghouse. Mechanical agitation and/or a static discharge appear to be the likely caused a spark that ignited the dust.	Aluminum dust	Metal	baghouse	Industrial Inorganic Chemicals	Chem manufacture - Industrial inorganic chemicals	Static	NA				
213	2002	2002-9-3	Cartersville	GA	0	0	The fire began when a worker switched on a breaker generating a spark that ignited a powder stored and processed in the building. The powder, stored in bags, is processed at the building into a slurry that is used in making paper. The slurry is then sold to companies who use it as a catalyst in making paper. The fire started in the control center and ignited several bags of the powder.											
214	2002	2002-9-5	Austin	MN	1	4	Dust explosion		Food			Food products						
215	2002	2002-9-20	Atchison	KS	0	0	Dust explosion		Food		Distillery	31214	Static Electricity	Minor	Storage Bin			
216	2002	2002-11-18	New London	NC	0	3	Three men were severely burned in a freak explosion just as they were finishing a welding job in a silo. The three had been welding a metal chute for about an hour and a half inside one of eight silos at Fiber Composite Corp., which makes wood composite for decks and rails.	Wood dust & polyethylene	Wood & plastic									
217	2002	2002-12-26	Linden	AL	1	0	A flash fire occurred inside a sawmill's fuel house when an employee was cutting pipe. A piece of pipe fell and hit a brace, causing a spark, which ignited the saw dust inside the pipe.	Saw dust	Wood		Saw mills and planning mills	Lumber & wood products	Metal strike	NA				
218	2002	2002-12-27	Pella	IO	0	0	A wood dust explosion started a fire that damaged a warehouse and several semitrailers Friday afternoon. Most of the fire was quickly extinguished and no injuries were reported, police said. The explosion at the company which distributes sawdust and wood shavings was apparently caused by wood dust but the ignition source could not immediately be identified, police said.		Wood									
219	2002	2002-12-27					Information not cleared for public release	Aluminum dust	Metal									

Incident #	Date	Date	City	State	Fatality	Injury	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity	
220	2002			TN	0	0	Deflagration inside of a Dust Collector-Grafted Rubber Compound (GRC): Primary filter overpressured-deflagration. No external secondary explosion. Secondary explosion in an interconnected out-of-service dust collector with dust-filled filter elements. Circumstances leading to the incident: smoldering degraded GRC was sucked into a primary filter in a ventilation system. The dust collector explosion caused a secondary explosion in an out of service dust collector because the ventilation system was connected to the dust collector exhaust stack and also still contained dust filled filter elements. A relatively high GRC content product (36%) was recently introduced to the process. MOC process less than adequate. Circumstances limiting the impact of the incident: Dust collection equipment located outdoors in an unoccupied area, limiting exposure to personnel and potential for secondary explosion.		Paints	Dust Collector-Grafted Rubber Compound	Paint Manufacturing	Paint products	dust			Dust Collector	
221	2003	2003-1-14	Twinsburg	OH	0	0	An explosion in a dust collector at Commercial Alloy Sales on Highland Road ignited a fire about 5:20 p.m. Tuesday. No major injuries were reported, and a damage estimate was not available Tuesday night. The Twinsburg Fire Department reported the explosion came from duct work in the building and from the dust collector unit outside the building. The dust collector was blown apart, with heavy fire and flames coming from the unit, according to the Fire Department.	Aluminum dust									
222	2003	2003-1-21	Peoria	IL	0	1	A fire started on the floor of a sandblasting booth, which was littered with plastic granules, the byproduct of sandblasting magnesium wheels. Initiating event unknown. Fine grains of plastic lying on the floor of the business likely was the fuel source.	Plastic dust	Plastic	Sandblasting booth	Industrial cleaning/sandblasting	Automotive services	Unknown	\$2.5 mil	Machinery room		
223	2003	2003-1-23	Scott Cour	MO	0	0	According to firefighters, the blaze started shortly before two o'clock Thursday afternoon inside two silos at that makes wood laminate flooring. There were several small explosions when the fire broke out, which could have been the sound of the sawdust igniting from a nearby boiler room spark.	Saw dust	Wood								
224	2003	2003-1-29	Kinston	NC	6	38	Explosion and fire destroyed a rubber compounding facility, causing six deaths, dozens of injuries, and hundreds of job losses. The facility produced rubber stoppers and other products for medical use. The fuel for the explosion was a fine plastic powder, which accumulated above a suspended ceiling over a manufacturing area at the plant and ignited	Polyethylene dust	Plastic	Milling equipment	Mechanical rubber goods	Rubber & plastic products					
225	2003	2003-2-10	Rothschild	WI	0	0	A coal dust explosion Monday forced plant to shut down one of its electrical generators	Coal dust	Coal								
226	2003	2003-2-14	Hickory	NC	0	2	An explosion Thursday at a furniture manufacturing plant started a fire in the filtering system for wood waste, damaging the system but seriously injuring no one. The explosion happened inside a baghouse. Company officials believe a spark in the filtering system ignited wood dust and air inside the baghouse. But they didn't know what caused the spark. The most likely cause: Part of a nail, screw or other piece of metal in the wood debris hit the blade of a fan used to draw particles through the system.	Wood dust	Wood								
227	2003	2003-2-20	Corbin	KY	7	37	phenolic resin dust became suspended in air during cleaning activities. This dust either entered a curing oven, or flames extended outside of the oven door -- the dust was ignited, causing an explosion and several additional secondary explosions.	Phenol-formaldehyde resin dust	Plastic	Oven		Rubber & plastic products			Production	Cleaning	
228	2003	2003-2-25	Nashville	TN	0	0	The fire started in a sawdust chopper. The sawdust is sucked into a hopper, sort of a silo that holds the dust until it's transported somewhere else. Firefighters say they are called to the plant two or three times a year when the sawdust spontaneously combusts	Saw dust	Wood								

Incident #	Date	Date	City	State	Fatalities	Injuries	Description	Fuel	General Fuel Category	Equipment Involved	Facility Type	General Facility Type	Ignition Source	Property Damage	Area of Facility	Work Activity
229	2003	2003-2-25	Johnson	TN	0	0	An explosion in a sawdust bin in a flooring plant; no injuries or serious damage. The spark was probably caused by a metal fragment or nail striking the machinery.	Saw dust	Wood							
230	2003	2003-3-7					Information not cleared for public release	Saw dust	Wood							
231	2003	2003-3-12	Beaverton	PA	0	0	Fire broke out in a dust collection building and was quickly extinguished before it could spread to the main factory.	Wood dust	Wood							
232	2003	2003-3-14	Blendon T	MI	0	0	A fire at a steel polishing plant destroyed the building and its contents after dust in a machine sparked flames that couldn't be knocked down by employees. The fire investigation points the source of the flames to a polishing and buffing machine that turns raw metal into polished steel plates, the fire chief said.	Metal dust	Metal							
233	2003	2003-3-17	Hanover	PA	0	0	A fire originated in a dust collection system and ignited a metal dust bin and several filters. The dust collector vacuums dust away from the stations where workers were polishing metal parts for motorcycles.	Metal dust	Metal	Dust collection system	metal polishing and grinding	Fabricated metal products			Production	Polishing
234	2003	2003-4-9	Richmond	IN	0	0	Dust collector fire. No one was injured. The water was pouring out the bottom of the rooftop collector and swirling down a drain in the middle of the plant's parking lot. There were no visible flames, but there was smoke in the area. The dust collector is on the roof at the rear of the factory. No injuries. \$100,000 estimated damage.	Saw dust	Wood							
235	2003	2003-4-26					Information not cleared for public release									
236	2003	2003-5-20	Erlanger	KY	1	3	An employee was in the plant silo room, where candy ingredients are stored, when the explosion occurred. The silo contained maltodextrin, a highly combustible grain-like substance that likely caused the explosion.	maltodextrin dust	Food	silo	candy manufacturer	Food products			Storage	
237	2003	2003-5-23	Rocklin	CA	0	2	Dust explosion burns employees. (no other information description given)	Wood dust	Wood			Furniture & fixtures				
238	2003	2003-5-30	Muscataine	IA	0	1	Coal dust fire at electrical power generating facility.	Coal dust	Coal							
239	2003	2003-7-9	Champaign	IL	1	1	Two employees were using a torch to remove components of a dust collector. A small, smoldering fire started and one of the employees, using a Halon fire extinguisher, extinguished the fire. While extinguishing the fire, aluminum dust was dispersed into the air, causing an explosion. Both employees were injured in the blast and taken to the burn unit. One of the employees died from the injuries sustained in the blast. The other employee remains in critical condition.	Aluminum dust	Metal	torch		Fabricated metal products	Flame		Production	
240	2003	2003-7-22	Columbia	SC	0	0	Dust explosion	dust mixture of polyethylene	Plastic	grinder	pharmaceutical preparations	Chem Manufact - Pharmaceutical Preparations				
241	2003	2003-7-22	Columbia	SC	0	7	A dust explosion occurred on July 22, 2003, at a pharmaceutical packaging company where seven workers were injured in an explosion in a warehouse after dust from plastics ignited. One employee was treated for burns, and the others suffered minor injuries.									
242	2003	2003-7-30	Rapid City	SD	0	0	The fire broke out in a dust-containment system at the plant and was limited to that area.	Metal dust	Metal							
243	2003	2003-8-11	Millersburg	OR	0	1	A worker was injured Monday in an explosion and fire at a factory after the dust from wood flour, which is used as filler in plastics and glue, ignited and exploded. One worker was transported to the hospital, but the extent of that person's injuries was not immediately known.	Wood	Wood							
244	2003	2003-8-26	Four Oaks	NC	0	0	Dust explosion		Food		Food Processor	311991		Moderate		

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245	2003	2003-9-2	Lowell	MA	0	1	Suspected dust ignited in a motor.	Saw dust	Wood	Unknown	reconstituted wood products	Lumber and wood products	unknown		Loading dock		
246	2003	2003-9-5	Dayton	OH	0	0	A fire started after changes were made to a dust collecting unit in a factory which caused a spark and ignited the fire. Less than 12 employees were in the building at the time of the fire even though more than 90 people work for the company between two factories. Dust and particles from manufacture of fiberglass/plastic composite for motor vehicle suspension leaf springs. Damage was confined to the air handling system. Welding was going on at the time and is the probable ignition source. The business has now gone to a water wash system for safety.	Plastic dust	Plastic								
247	2003	2003-10-1					Information not cleared for public release	Saw dust	Wood								
248	2003	2003-10-2	Marietta	GA	0	0	Fire likely caused by workers using acetylene torches to cut metal. A piece of molten metal was sucked up into the dust collection system at rubber products facility. Company staff noticed the fire when it was on the roof of the building and all were able to get out safely. There were several explosions at the scene, most likely caused by super-heated propane tanks. Damage to the building is estimated at \$500,000. Nobody was injured.										
249	2003	2003-10-22	Rubbertown	KY	0	0	A synthetic powdered rubber, used to make items like brake pads, caught fire in a piece of equipment called a dryer. A company spokesman said the two workers who operate the dryer were able to shut it down and escaped unharmed. A group of maintenance workers also was near where the fire began, but they were evacuated without suffering any injuries. A similar problem took place several years ago, and safety measures put into place then likely helped keep damage minimal in Thursday's incident.	Rubber dust	Plastic								
250	2003	2003-10-29	Huntington	IN	1	2	A major explosion and fire near a smelting furnace that killed one employee and severely burned another. 5 others were transported to emergency care facilities and released after treatment. At about 3:00 P M a fire was reported in the number 5 furnace chip melt side well exhaust duct. The maintenance department was sent to evaluate the fire and shut the exhaust ventilation system down to allow the fire in the pipe to self extinguish as this was the plant policy for aluminum dust fires in the pipe. About 8:10 or 8:15 the employees started the system up after the pipe had cooled and been cleaned out by the employees. Employees cleaned the ash out of the pipe started multicone blower and checked for proper operation; turned on the dry chip blower #3; then the auger checked multicone for proper operation; they were starting to leave when a big flash came out of the well where the chips feed in this moved the dust off of the ceiling & ignited it causing a ball of fire to move through the room it also destroyed equipment outside the building & started many small fires inside the building in that area.	Aluminum dust	Metal	multi-cone pipe, multi-cone blower, dry chip blower		Primary metal industries					
252	2004	2004-1-12	Clinton	IA	0	0	Dust explosion		Food		Wet Corn Milling	311221		Minor			
253	2004	2004-1-15	Wilbur	OR	0	2	Fire in the bag house at a marine plant was quickly extinguished. Investigators believe the company's dust collection system picked up a large chunk of material, producing a spark that exploded in the bag house where the dust is routed. The explosion blew the hatch open and produced a small fire. The plant does mill work, sanding for boat parts. Spark went into Hvac system and started smoldering fire. It was labor intensive to put it out. They had to remove 31 filters because all started burning. Little flame, no explosion. This was not the first incident-- hopper was getting insufficient for their production levels. Sawdust.	Saw dust	Wood								

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254	2004	2004-2-11	Omaha	NE	0	0	A spark from a cutting device inside the building ignited sawdust. The explosion blew off the pipes and ripped open the top of the metal collector.	Saw dust	Wood	cutting device, dust collector	store fixtures manufacturer	Furniture & fixtures	Spark		Production	Cutting
255	2004	2004-2-12	Lockport	IL	0	0	A fire erupted in a steel storage bunker holding coal. There have been three bunker fires at the plant in the past year.	Coal dust	Coal	steel storage bunker	power plant	Electric Services				
256	2004	2004-2-16	Red Rock	OK	0	0	Explosion and flash fire resulted in the coal handling system of the plant. Coal dust was the source of the fire.	Coal dust	Coal	Coal handling system	Power plant	Power generation	Unknown			
257	2004	2004-2-19	Archbold	OH	0	3	Hot embers from a metal strike entered the dust collection system which ignited sawdust and wood shavings.	Wood dust	Wood	Dust collection system	Woodworking Company	Manufacturing	Metal to metal strike			
258	2004	2004-2-23	Auburn Hills	MI	0	0	A furnace in the foundry malfunctioned. It sent excessive heat to the system of overhead vent ducts that serve as a large vacuum cleaner, sucking up dust and airborne metal shavings. The excessive heat ignited the metal dust in the system and resulting flash fire spread to the bag house on the roof of the facility.		metal	Dust collection system	foundry	Manufacturing	Excessive heat		Production	None
259	2004	2004-3-16	Trumann	AR	0	0	A saw motor exploded, an electrical short was suspected. The sparks were seen going up to the dust collector. An explosion occurred shortly after.	Wood dust	Wood	panel saw, dust collector	hardwood veneer and plywood	Lumber & wood products		NA		
260	2004	2004-3-16	Oklahoma City	OK	0	0	Rubber particulates in a dust collector ignited from sparks produced when motor fan malfunctioned.	Rubber dust	Plastic	Dust collector	Tire manufacturing plant		Spark		Dust Collection	
261	2004	2004-3-17	Raymond	WA	0	2	Two workers were hospitalized after being injured in a fire at a lumber mill. The fire started in a shavings bin where small pieces of lumber are mixed with bark to make boiler fuel. As fire crews tried to put on the blaze, an explosion occurred, shooting out of the side of the shavings bin and rattling the entire town. Fire was in silo that stores planar shavings. Materials involved were hemlock shavings and sawdust.	Saw dust	Wood							
262	2004	2004-4-6	Atchinson	KS	0	0	Dust explosion		Food		Packaging Warehouse	31122		Moderate		
263	2004	2004-4-7	Wood River	IL	0	0	A mix of coal dust and welding heat caused a fire aboard a barge unloading facility at a power station. The fire started with an explosion at an excavator crane; several employees were doing preventative maintenance welding to the crane just moments before the fire started. The fire then progressed up into the engine compartment and into the cabin.	Coal dust	Coal	excavator crane, welding equipment	power plant	Electric Services	Unknown	NA		
264	2004	2004-4-8	Hertford	NC	0	1	Dust explosion	Food	Food							
265	2004	2004-5-6					Information not cleared for public release	Saw dust	Wood							
266	2004	2004-5-16	Belvidere	NJ	0	0	Vitamin Plant - Fire broke out in a dust collector used to trap materials from one of the company's manufacturing processes. The dust collector, installed in January, has about 70 to 80 dust bags hanging inside.	Vitamin dust	Pharmaceutical	dust collector	Industrial Inorganic Chemicals	Chem Manufact - Pharmaceutical Preparations	unknown	NA		
267	2004	2004-6-10	Hudson	NC	0	3	A 55-gallon drum of lacquer dust (a by-product of furniture finishing) exploded (flash fire). The fire set off explosions in 50 other drums, shooting a fireball and smoke more than 100 ft high and forcing about 120 people to evacuate the area for most of the day. The lacquer dust may have been contaminated by vapors from evaporating liquid lacquer or some other "self-heating contaminant".	Lacquer dust	Plastic	drums		Chem manufacture - Miscellaneous chemical products			Storage	Unknown
268	2004	2004-6-25	West Bend	WI	0	4	Employees smelled smoke coming from the air scrubber machine. The air scrubber collects and directs filings and air from several polishing or buffing stations. As the equipment was turned on, air was introduced to a possible smoldering fire contained to the duct work. An explosion occurred. A coffee urn buffing machine is suspected to have sent sparks into duct work and dust collector to initiate the incident	Aluminum dust	Metal	Buffing machine, Air scrubber, duct work	manufacturing plant	Fabricated metal products	Spark		Production	Buffing/polishing

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269	2004	2004-7-6	Pampa	TX	1	2	The company manufacturers oilfield equipment. An explosion and flash fire occurred in a processing area where igniter material is mixed. The mixing process is for the manufacturing of igniters for oilfield setting tools used to set oil well plugs. The incident occurred as employees were grinding magnesium powder and potassium perchlorate.	Magnesium dust	Metal	Grinding	manufacturing plant		unknown	\$150,000	Production	Grinding
270	2004	2004-7-20	Bridgeport	CT	0	2	A company employee was using a rubber grinding machine when a spark ignited dust. The machine became engulfed in flames and spread to overhead duct work that had not been cleaned for some time.	Rubber dust	Plastic	grinding machine	rubber factory	Rubber & plastic products	Metal strike	NA		
271	2004	2004-9-14	New Washington	OH	0	1	An explosion occurred when a powder coating gun ignited at the plant. Four people were in the building at the time. The only injury was to a worker who got the hair on his arm singed. The filtering system had extensive damage.	Metal dust	Metal		Steel Pipe and Tubes	Primary metal industries				
272	2004	2004-9-16	Santa Clara	CA	0	0	A fire began in the ventilation ducts of the paper plant.	Wood dust	Wood	ducts	Folding Paperboard Boxes	Paper products				
273	2004	2004-9-18	Ayer	MA	1	16	Dust sparked a fire in the baghouse. The baghouse has a large vat at the top of it, where residue from the tofu product is pumped, then heated to disintegrate to dust, which is blown into filters, from which the finished residue product is bagged to be hauled away. Apparently in the filter process, the dust sparked causing the fire.	Tofu dust	Food	baghouse	tofu manufacturer	Food products	Unknown	NA		
274	2004	2004-9-23	Lincoln	IL	0	0	A hot bearing in the motor of a dust collection system locked up and shot a spark through about 80 feet of duct, triggering a minor dust explosion.	Wood dust	Wood	dust collection system	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers	Furniture & fixtures	Metal strike	\$5,000		
275	2004	2004-9-28	Pekin	IL	0	0	Firefighters extinguished a fire earlier this week at a power plant in Pekin in about one hour. Crews from both Pekin and Peoria were called to Midwest Generation's Powerton plant at 9:45 a.m. Tuesday. Company spokesman Charlie Parnell said the fire started on the fifth floor in what is called the crusher room, where coal is pulverized into a powder and some of the coal combusted, WEEK-TV reported. Parnell said no one was injured in the fire and there were no interruptions in service.	Coal dust	Coal							
276	2004	2004-10-12	Bremen	IN	0	0	Fire began in dust collector but remained confined to ductwork. The dust collector gathers dust created as the foam insulation is readied for shipment, removing it from the production area.	Plastic dust	Plastic	dust collector	foam insulation manufacturer	Rubber & plastic products	Unknown	NA		
277	2004	2004-11-23	Marseilles	IL	0	0	ABS resin plastic dust burned in dust collector. On site team had taken care of knock-down. FD finished off dust collector. Estimated \$250,000 damages.	Plastic resin	Plastic							
278	2004	2004-12-3	Leipsic	OH	0	1	The day before the incident, firefighters worked to clear smoldering cellulose from a silo at the plant. It is believed that an ember remained in some machinery overnight and eventually caused a flash dust explosion at the plant Friday afternoon. One firefighter was injured.	Cellulose dust	Wood	silo	pet food manufacturer	Food products	Hot surface		<u>Storage</u>	Inspection
279	2004	2004-12-8	Salisbury	MD	0	0	A hot spark from a wood cutting machine is thought to be the cause of a two-alarm fire at a boat manufacturing plant on Wednesday.. -The Daily times ----- Fire was located inside wood chip and dust evacuation system. System consisted of ducts leading to a large silo on the exterior of the building. Fire was located approximately 40 feet inside the building from the silo. Fire had extended from there into the silo. -NFIRS-1 Report ----- A spark set sawdust particles on fire at a boat manufacturing plant -Fire World	Saw dust	Wood							

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280	2005	2005-2-25	Mayfield	KY	0	2	An unknown ignition source ignited a rubber dust cloud that formed in the compounding room and spread into the dust collection system	Rubber dust	Plastic	Rubber mixer machine	Tire Manufacturer	Manufacturing	Unknown		Rubber compounding room	Mixing
281	2005	2005-3-22	Wilbur	OR	0	0	A bag house used for dust collection caught fire.			bag house					bag house	
282	2005	2005-5-3	San Fernando	CA	0	2	Dust exploded in a flash fire at a vitamin manufacturing plant burning two people. More than 50 workers were evacuated. A spark ignited the vitamin cloud.	Vitamin dust	Pharmaceutical		pharmaceutical manufacturing	Manufacturing	spark		vitamin powder packaging area	
283	2005	2005-6-1	Des Moines	IA	0	1	Employees were cutting on the platform decking of the old calcium carbonate hopper when a cover fell off an abandoned leg of the dust collector duct above them. The flange is approximately 8 feet above the work platform. Material which had accumulated behind the flange fell from the duct into the work area. A cloud of dust was created as the material fell. The dust is believed to be zinc oxide, calcium carbonate, or stearic acid. The dust ignited, causing a small fire.	Inorganic	Inorganic	Cutting torch	Tire Manufacturing	Manufacturing	Cutting torch	None	2nd floor, pigment dump station	Employee was in process of removing obsolete equipment
284	2005	2005-6-10	Chattanooga	TN	0	5	Employees disassembling a paint booth with a cutting torch were involved in a flash fire when the booth collapsed resulting in a cloud of paint dust, which was ignited by the flames of the torch.	Paint powder	Paints	Paint booth, cutting torch						
285	2005	2005-7-4	Seattle	WA	0	0	The fire was contained in a hopper, which is similar to a smoke stack. The fire originated in the dust collector and coal dust was ignited.	coal dust	Organic	dust collector	cement plant	Manufacturing			hopper and dust collector	
286	2005	2005-7-8	Old Town	ME	0	0	A dust fire broke out in one of the paper machines. Ignition sources is unknown. Housekeeping issues led to secondary fires	Saw dust	Wood	Paper machine	paper product manufacturer	Manufacturing	Unknown			
287	2005	2005-7-22	Hartford	WI	0	2	Employees at Midas performing operations associated with an aluminum spray booth suspected that flow was blocked to the dust collector adjoining the booth. During inspection, employees found the vent pipe to the dust collector glowing. One of the employees shook the pipe causing aluminum dust to dislodge lead to an dust explosion.	Aluminum dust	Metal	Dust collection system	Muffler manufacturer	Manufacturing				
288	2005	2005-7-26	Springfield	OR	0	0	An explosion and fire shut down operations at a particle board mill. The fire began with a sawdust explosion in a bag house. The fire started with a spark and was under control within 45 minutes.	Saw dust	Wood	Bag House, sawdust collection in pockets	Wood Products Manufacturing Plant	Wood Products			bag house	
289	2005	2005-10-14	Schofield	WI	1	1	One factory worker died and another was hospitalized with burns after an explosion and fire tore through a wood-products manufacturing plant. Losses exceed \$1 million. The local fire chief stated that he believed it was a dust explosion.	Saw dust	Wood	Wood flour mills	Wood Products Manufacturing Plant	Wood Products		\$1 million	Wood flour mills in the machine room	
290	2005	2005-11-9	Rockford	IL	0	0	A powder coating machine caught fire causing 45 employees to evacuate. Firefighters said the powder-coating machine malfunctioned and ignited powder-coating material. One sprinkler head extinguished the fire.	Powder-coating material	Chemical	powder-coating machine	Display manufacturing plant	Manufacturing		\$50,000		
291	2005	2005-11-14	Pella	IA	0	2	A month after a previous fire the location was smoldering. Fire crews started to fight the flames in the lower level and several shipping trailers, when a secondary explosion blew the top off one of the towers, injuring two firefighters.	Wood dust	Wood		Wood Products Manufacturing Plant	Wood products				

