

Investigation Report: Sugar Dust Explosion and Fire: (14 Killed, 36 Injured)



On February 7, 2008, at about 7:15 p.m., a series of sugar dust explosions at the Imperial Sugar manufacturing facility in Port Wentworth, Georgia, resulted in 14 worker fatalities. Eight workers died at the scene and six others eventually succumbed to their injuries at the Joseph M. Still Burn Center in Augusta, Georgia. Thirty six workers were treated for serious burns and injuries some caused permanent, life altering conditions. The explosions and subsequent fires destroyed the sugar packing buildings, palletizer room, and silos, and severely damaged the bulk train car loading area and parts of the sugar refining process areas. The Imperial Sugar manufacturing facility housed a refinery that converts raw cane sugar into granulated sugar. A system of screw and belt conveyors, and bucket elevators transported granulated sugar from the refinery to three 105-foot tall sugar storage silos. It was then transported through conveyors and bucket elevators to specialty sugar processing areas and granulated sugar packaging machines. Sugar products were packaged in four-story packing buildings that surrounded the silos, or loaded into railcars and tanker trucks in the bulk sugar loading area. The U.S. Chemical Safety and Hazard Investigation Board (CSB) determined that the first dust explosion initiated in the enclosed steel belt conveyor located below the sugar silos. The recently installed steel cover panels on the belt conveyor allowed explosive concentrations of sugar dust to accumulate inside the enclosure. An unknown source ignited the sugar dust, causing a violent explosion. The explosion lofted sugar dust that had accumulated on the floors and elevated horizontal surfaces, propagating more dust explosions through the buildings. Secondary dust explosions occurred throughout the packing buildings, parts of the refinery, and the bulk sugar loading buildings. The pressure waves

from the explosions heaved thick concrete floors and collapsed brick walls, blocking stairwell and other exit routes. The resulting fires destroyed the packing buildings, silos, palletizer building and heavily damaged parts of the refinery and bulk sugar loading area.

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Imperial Sugar plant explosion was preventable Reuters Five years after a combustible-dust explosion killed 14 workers in Georgia, The Worker Protection against Combustible Dust Explosions and Fires Act of GA, killed 14 workers and injured 36 others, many with life-threatening burns. CSBs final report on the Imperial explosion stated that the sugar **Particulate Products: Tailoring Properties for Optimal Performance - Google Books Result** Imperial Sugar Dust Explosion final draft report released powerful cascade of secondary dust explosions that fatally injured 14 workers and injured 36 identified 281 combustible dust fires and explosions between 19 that killed **Common lessons learned from an analysis of multiple - IChemE** The first iron dust flash fire incident killed two workers . 31 incident investigation) The hydrogen explosion and ensuing iron dust flash fires injured four .. report listed 80 metal dust fires and explosions, including one iron dust incident that .. a catastrophic sugar dust explosion at Imperial Sugar killed 14 and injured. 36. **Imperial Sugary Refinery by Selena Nooradeen on Prezi** Similarly, clouds of dust particles have caused explosions in industrial of dust explosions and fires in a sugar refinery killed 14 workers and injured another 36 workers **FIGURE 5.3.3.1 Imperial Sugar Manufacturing Facility,5** (from U.S. Chemical Safety Board Investigation Report) (a) before explosion, (b) after explosion. **Combustion: From Basics to Applications - Google Books Result** Its investigations and reports also identify weaknesses in emergency . final report on the explosion, which killed 14 workers and injured 36 others, Report Sugar Dust Explosion and Fire Imperial Sugar Company (PDF). **Sugar Company Ignored Explosion Hazards, Investigation Concludes** CSB Investigation Supervisor John Vorderbrueggen, P.E., who led the The CSB report said that the sugar industry was familiar with dust A 2006 CSB study identified 281 combustible dust fires and explosions between 1980 and 2005 that killed 119 workers and injured 718, and extensively damaged **Final CSB Report on Imperial Sugar Disaster Concludes Inadequate** The initial

blast and subsequent dust explosions throughout the plant killed 14 workers and injured 36. According to the Investigation Report produced by the CSB: The explosion lofted sugar dust that had accumulated on the floors years to control dust explosion hazards even as smaller fires and **2008 Georgia sugar refinery explosion - Wikipedia** damaged in a 2008 explosion that killed 14 workers and injured 36 others. dust fires and explosions between 1980 and 2005 that killed 119 workers and injured 718. CSB Investigation Supervisor John Vorderbrueggen, who led the The CSB report said that the sugar industry was familiar with dust **The Dust Explosion Sugar Dust - Scribd** INVESTIGATION REPORT SUGAR DUST EXPLOSION AND FIRE (14 Killed, 36 Injured). IMPERIAL SUGAR COMPANY PORT WENTWORTH, GEORGIA **Imperial Sugar Investigation - Tennessee Valley Chapter of the INVESTIGATION REPORT**. Report No. 2008-05-I-GA. September 2009. SUGAR DUST EXPLOSION AND FIRE. (14 Killed, 36 Injured). IMPERIAL SUGAR **Chemical board punts on dust explosions Hoeganaes Corporation - Chemical Safety Board** Investigation Report: Sugar Dust Explosion and Fire: (14 Killed, 36 Injured) [U.S. Chemical Safety and Hazard Investigation Board] on . *FREE* **U.S. Chemical Safety and Hazard Investigation Board** INVESTIGATION REPORT. Report No. 2008-05-I-GA. September 2009. SUGAR DUST EXPLOSION AND FIRE. (14 Killed, 36 Injured). IMPERIAL SUGAR **Imperial Sugar Company - The New York Times** Sugar dust inside the enclosed conveyor was likely ignited by an dust explosions that fatally injured 14 workers and injured 36 others, many with life-threatening burns. CSB Investigation Supervisor John Vorderbrueggen, P.E., who led dust fires and explosions between 1980 and 2005 that killed 119 Like all fires, a dust fire occurs when fuel is exposed to heat in the presence of . Michigan) exploded on February 1, 1999, killing six workers and injuring 36. account for over 20 percent of explosions, and plastics for 14 percent (U.S. . and Hazard Investigation Board, 2009, Investigation report sugar dust explosion and. **Sugar dust explosion risks - FoodProcessing** A few are listed below for the interested reader: GESTIS DUST EX Investigation Report Sugar Dust Explosion and Fire (14 killed, 36 injured), Report No. **AL Solutions - Chemical Safety Board** Deaths, 14. Non-fatal injuries, 36. The 2008 Georgia sugar refinery explosion was an industrial disaster that occurred on February 7, 2008 in Port Wentworth, Georgia, United States. 13 people were killed and 40 injured when a dust explosion occurred at a The last two annual reports by Imperial before the explosion said that any **investigation report - Chemical Safety Board** A huge fire last year at a sugar refinery plant near Savannah, Ga., that killed 14 workers and injured 36 more was entirely preventable, a federal official said. **INVESTIGATION REPORT** Incident Type: Combustible Dust Explosion and Fire causing 14 deaths and injuring 38 others, including 14 with serious and life-threatening **Bill Urges Action on Combustible Dust : PaintSquare News** The initiating event was a sugar dust explosion in the enclosed steel conveyor belt under the Fourteen workers were killed and 36 workers were injured in the incident. The CSB investigation identified the following incident causes: 1. The 14 fatalities were most likely the result of the secondary explosions and fires. 7. **Intelligent Systems and Decision Making for Risk Analysis and - Google Books Result** February 7, 2008: The 2008 Georgia sugar refinery explosion in Port Wentworth, Georgia, United States. Thirteen people were killed and 42 injured when a dust **Chemical Safety Board Workers Comp Insider** INVESTIGATION REPORT. Report No. 2008-05-I-GA. September 2009. SUGAR DUST EXPLOSION AND FIRE. (14 Killed, 36 Injured). **Dust Explosion Investigation in Turkey - aidic** Imperial Sugar Refinery Combustible Dust Explosion Investigation on The explosions and subsequent fires destroyed the sugar packing buildings, palletizer room, and Port Wentworth, United States of America, 2008 (14 Killed, 36 Injured) A short a specific report highlighting the increasing number of dust explosions. **Imperial Sugar Company Dust Explosion and Fire - Investigations** Reports of hazardous materials spills and releases have become agency charged with investigating industrial chemical inci- dents. All these type of (1989), Buncefield explosion (2005), Imperial Sugar fires . 6 killed and 36 injured 14 killed and over 40 injured dust, despite having a history of dust explosion prior to. **Imperial Sugar Dust Explosion-final investigation report released by** This case study examines a metal dust explosion and fire at the AL Solutions The incident resulted in three employee fatalities and one contractor injury. . Chemical Safety and Hazard Investigation Board (CSB) investigators as a . in Figure 14 were all found to be combustible, and the zirconium sample meets the. **Investigation Report Boeken** However, in 2008, the sugar dust had made an explosion and a fire. According to the investigation Report produced by the CSB: The initial blast and dust explosions throughout the plant killed 14 workers and injured 36. **Imperial Sugar Refinery Combustible Dust Explosion Investigation** building in Manhattan injured 36 people, including six New York City On February 7, 2008, a huge sugar dust explosion and fire occurred at the Imperial Sugar refinery northwest of Savannah, Georgia, causing 14 deaths and injuring 38 others, .. information the laboratory could report to all parties, including the CSB.