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Refinery Fire Incident A Case

REFINERY FIRE INCIDENT: A CASE STUDY OF A MULTIPLE FATALITY INCIDENT AT THE TOSCO AVON REFINERY, MARTINEZ, CALIFORNIA¹ Donald Holmstrom, Stephen Selk, Stephen Wallace, and Isadore Rosenthal, U.S. Chemical Safety and Hazard Investigation Board, 2175 K St., N.W., Suite 400, Washington, D.C. 20037

Refinery fire incident: A case study of a multiple ...

On June 21, 2019, a refinery in Philadelphia, Pennsylvania

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experienced an explosion and fire in the Hydrofluoric Acid (HF) alkylation unit--releasing nearly 5,000 pounds of HF into the air. This incident occurred during normal operation of the refinery.

Case Study: Philadelphia Refinery Explosion and Fire

Fire officials told CBS News the incident was a massive propane explosion. The cause still under investigation and the bulk of the refinery, back up and running.

Investigation into cause of explosion at California oil ...

The more recent incident at the Philadelphia Energy Solutions (PES) refinery provides another use case. Below is an overview of the refinery complex, which had the capacity to process 335,000 barrels per day (bpd), making it the largest refinery on the East Coast. It was also the oldest.

The aftermath of the PES refinery fire

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The explosive fire that broke out Tuesday at the West Coast's largest oil refinery was sparked in a section of the plant that California inspectors recently cited for workplace safety violations.

Carson refinery fined for workplace safety before fire ...

Local officials in Superior, Wis., last year ordered an evacuation of much of the city of 27,000 when a raging fire at a Husky Energy refinery risked engulfing a storage tank containing 15,000 pounds of hydrofluoric acid.

'It looked like Armageddon': Refinery fire puts focus on ...

This case study describes the sudden release of flammable liquid and subsequent fire and explosion that occurred on April 8, 2004 at the Giant Industries' Ciniza oil refinery, Jamestown, NM. The incident injured six employees and caused evacuation of non-

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essential employees as well as customers of a nearby travel center and truck stop.

Case Study: Oil Refinery Fire and Explosion, Jamestown, NM ...

Phillips 66 refinery in Carson hit by second fire in two months. About 120 Los Angeles County firefighters were on the scene of Thursday's Phillips 66 refinery fire in Carson. For the second time in less than two months, firefighters scrambled Thursday to put out a blaze involving the crude oil pumps at the Phillips 66 refinery in Carson.

Phillips 66 refinery in Carson hit by second fire in two ...

An August 6, 2012, release of flammable vapor led to a fire at the Chevron Refinery in Richmond, California. The CSB released three investigation reports into this incident - an Interim Report, a Regulatory Report and a Final Report.

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Chevron Refinery Fire | CSB

Excess flaring (Level 1) resulted from Refinery units powering down due to less available hydrogen and steam and the fuel gas system imbalance. Approximately 3 hours into the incident (~2:20 pm), the remaining two turbines at the power plant tripped offline. Without a sufficient amount of steam to the flare,...

Major Accidents at Chemical/Refinery Plants :: Hazardous

...

Chevron Refinery Pipe Rupture and Fire A pipe rupture on the Crude Unit of the Chevron Refinery in Richmond, California on August 6, 2012, resulted in a vapor release and explosion. Eighteen employees were caught in the vapor cloud but were able to make their way to safety before ignition.

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Maintenance Lessons from 5 Major Oil ... - Prometheus Group

A fire at an oil refinery in South Philadelphia caused a series of explosions before dawn on Friday, unleashing a giant ball of flames and plumes of smoke into the air. The incident prompted a shelter-in-place order for a nearby neighborhood and sent more than 100 firefighters to the scene.

Philadelphia Oil Refinery Explosions Create Giant Fireball ...

A spill of liquid hydrocarbon may catch fire and yield a pool fire. Hence, accidents in refineries can be amongst the most devastating industrial accidents. Marsh Risk

Copyright Jim Thomson 2013 Safety In Engineering Ltd ...

At least 33 fires, explosions and chemical releases at U.S. oil refineries and industrial plants have occurred in the last year as

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the Environmental Protection Agency delayed updating a Chemical Disaster Rule intended to stop many of those accidents from occurring, a coalition of environmental groups said in a report released Tuesday.

33 accidents happened at oil refineries as EPA delayed ...

What to Do in Case of a Fire Immediately pull the nearest fire alarm pull station as you exit the building. When evacuating the building, be sure to feel doors for heat before opening them to be sure there is no fire danger on the other side.

What to Do in Case of a Fire - Public Safety

In the 5 months after the August 6, 2012 Chevron fire and January 14, 2013, the California refinery industry reported 20 to 25 upset events to the U.S. Department of Energy, including fires, hydrogen sulfide releases, unexpected flare events, mechanical break -downs and others.

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Case Study: The Richmond, Chevron Refinery Fire

The incident occurred in the refinery's hydrofluoric acid (HF) alkylation unit. Alkylation is a standard oil refinery process that combines olefins with isobutane using a catalyst, HF in this case, to produce alkylate. Alkylate, which is highly flammable, is used to boost the octane rating of gasoline.

CSB Issues Case Study on April 2004 Oil Refinery ...

The oil refinery explosion and fire that rocked Superior, Wis., in April could have been prevented if the plant's equipment had been properly maintained, a federal investigation has found.

OSHA: Explosion, fire at Superior refinery could have been ...

The photo shows the incident scene pre- and post-incident. The V-1 vessel was the Treater Feed Surge Drum, which contained a

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mix of hydrocarbons and exploded violently in the wake of the fire caused by the leak; it fractured into three pieces, one of which flew across the Schuylkill River.

What caused the South Philly refinery explosion? - WHY?

A fire at the Carson Marathon refinery late Tuesday sent smoke over Southern California. The incident caused a temporary shutdown of the 405 Freeway and is expected to raise gas prices. Read here for more.

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