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FUSIBLE LINK

FEBRUARY 2016

President's Message…

Our January breakfast meeting was held at the NJ offices of FM Global and feature an update on storage protection by Wes Baker FM's guru on Protection Standards as outlined in FM Data Sheet 8-9. We want to thank both Wes and FM for the informative presentation and for hosting the meeting. In February we will be back to our normal evening meeting at the Hanover Manor. The meeting is set for Monday, February 1st. Our speaker will be Robert Accosta from ARUP who will present "What is Integrated Design? ". Come out and network with your peers and keep current on the latest innovations and happenings in our field and in the areas of fire protection and prevention.

See you in February.

Rich Reitberger
President

Chapter Meeting Minutes
January 11, 2016

President Rich Reitberger convened the meeting at 9:15 AM at the FM Global offices in Parsippany, NJ with a salute to the flag.
A motion was made by Joe Janiga to approve the December meeting minutes as prepared by Dave Gluckman and the members voted to approve. Nate Gorey presented the December Treasurer's report to the group. Chris Vitale made motion to approve and was approved by the members.

Rich Reitberger discussed the status of the Scholarship Foundation; Rich Reitberger was elected President, Tim Collins was elected Vice President and Mike Newman was elected secretary. By transitioning the Scholarship Fund into a separate 501c3 foundation, the scholarship fund will be allowed to accept donations and grow. Additional sub-committees will generate from this foundation such as the Golf Outing Committee.

The 2016 James Goerl Golf Outing will be held on June 6th at the New York Country Club in New Hempstead, NY.

Wes Baker, Senior Engineer Technical Specialist, Assistant Vice President, FM Global presented changes in the FM Global Data Sheet 8-9, in particular new in-rack sprinkler designs. As industries evolve, many clients are storing larger quantities of plastics to greater heights than seen before. The effectiveness of previous in-rack sprinkler system designs for the storage of plastics was limited by the use of small-orifice sprinklers and storage heights, leaving no more than 10 ft (3.0 m) of storage above the top level of in-rack sprinklers. In addition, the in-rack sprinkler systems were required to be hydraulically balanced with the ceiling sprinkler systems.

FM Global Data Sheet 8-9 have been revised to incorporate new in-rack sprinkler system design criteria. Based on full-scale fire testing, fire modelling, and an understanding of today's technology, the cost-effective wet system designs provide options for protecting uncartoned plastic storage to unlimited heights.

The new options for in-rack sprinkler systems will utilize minimum K14.0 (K200) sprinklers discharging water at flow rates that are dependent on the vertical location of the in-rack sprinklers (up to 40 ft [12.2 m]) and the commodity hazard being protected. In addition, the in-rack sprinkler systems will not need to be hydraulically balanced with the ceiling sprinkler systems nor will they have to account for flow of ceiling sprinklers simultaneously.

More information on these protection schemes can be found at www.fmglobaldatasheets.com

Rich Reitberger called the meeting to a close at 11:00

US Chemical Safety Board issues report on Explosion on February 2015, accident at the ExxonMobil Refinery

The CSB has issued a detailed report on the explosion that can be found at:

http://www.csb.gov/chemical-safety-board-to-convene-january-13-2016-public-meeting-in-torrance-california/

A summary of the report is as follows:

Executive Summary

1.1 Incident Summary

On August 6, 2012, the Chevron U.S.A. Inc. Refinery in Richmond, California, ("the Chevron Richmond Refinery") experienced a catastrophic pipe failure in the #4 Crude Unit ("the crude unit"). The pipe, a 52-inch long carbon steel piping component of the #4 sidecut line, ruptured and released flammable, hydrocarbon process fluid, which partially vaporized into a large vapor cloud that engulfed 19 Chevron employees and ignited. All of the employees escaped, narrowly avoiding serious injury. The ignition of the flammable portion of the vapor cloud and subsequent continued burning of the hydrocarbon process fluid resulted in a large plume of particulates and vapor traveling across the Richmond, California area. Approximately 15,000 people from the surrounding area sought medical treatment due to the release.

1.2 Interim Report

The CSB released an Interim Report on the Chevron incident in April 2013 ("the Interim Report"), which highlighted technical findings and safety system deficiencies. Testing conducted on the ruptured pipe determined that it had experienced extreme thinning near the rupture location due to sulfidation corrosion.[1] Sulfidation corrosion is a damage mechanism that causes thinning in iron-containing materials, such as steel, due to the reaction between sulfur compounds and iron at temperatures ranging from 450 °F to 800 °F.[2] This damage mechanism[3] causes pipe walls to gradually thin over time, and is common in crude oil distillation[4] where naturally occurring sulfur and sulfur compounds found in crude oil feed, such as hydrogen sulfide,[5] are available to react with steel piping and equipment. The Interim Report stated that virtually all crude oil feeds contain sulfur compounds and, as a result, sulfidation corrosion is a damage mechanism present at every refinery that processes crude oil. Sulfidation corrosion can cause thinning to the point of pipe failure when not properly monitored and controlled.

The Interim Report noted a number of causal safety system deficiencies that highlight regulatory gaps relating to major accident prevention at California petroleum refineries. For example, in conducting its process hazard analysis[6] (PHA) of the crude unit, which was required under California's Process Safety Management (PSM) standard,[7] Chevron did not conduct a rigorous review of corrosion and damage mechanisms present in the crude unit, and did not identify sulfidation corrosion as a hazard. As such, Chevron did not effectively address inherent safety[8] or implement effective controls to prevent sulfidation corrosion, including those controls proposed by Chevron's technical group. Although both the California and federal PSM standards require that hazards be identified, evaluated, and controlled, there is no further discussion of how far to reduce risks, and there is no requirement to address the effectiveness of controls or to use the hierarchy of controls.[9] Therefore, this type of analysis was not required to be conducted, and Chevron was never cited post-incident for failing to evaluate the effectiveness of safeguards.

In another example, despite internal recommendations to replace the entire #4 sidecut piping with an inherently safer, more corrosion-resistant material of construction through the Management of Change (MOC) process, incident investigations, technical reports, and employee recommendations, Chevron repeatedly failed to implement those proposed recommendations. Chevron's 2006 MOC analysis limited application of those recommendations to only a small section of the pipe. As a result, the portion of the pipe that failed on the August 6th incident remained in service until the incident. As there is no requirement to implement effective recommendations or control hazards under the MOC element, it is essentially an activity-based requirement. Chevron was not cited for narrowing the scope of the MOC, despite its disregard of internal recommendations. The CSB concluded in its Interim Report that Chevron did not regularly or rigorously apply inherently safer technology, which provides an opportunity for preventing major accidents, in its PHAs, MOCs, incident investigation recommendations, or during turnarounds.

The CSB made safety recommendations in the Interim Report to a number of entities, including the California State Legislature, the U.S. Environmental Protection Agency, and Contra Costa County. The Board recommended that the California State Legislature require California petroleum refineries to perform damage mechanism hazard reviews, to identify and report leading and lagging process safety indicators, to document recognized methodologies, rationale, and conclusions used to claim that safeguards intended to control hazards will be effective, and to document their inherently safer systems analysis and the hierarchy of controls in establishing safeguards for process hazards, with the goal of driving risk of major accidents to as low as reasonably practicable, or ALARP. These concepts, introduced in the Interim Report and highlighted in the recommendations, are the basic building blocks for the implementation of the safety case regime, a regulatory scheme that will be discussed in great detail in the following report.
The CSB concluded its Interim Report by highlighting additional issues that were still under investigation, including emergency planning and reporting, emergency response, safety culture, and regulatory oversight of petroleum refineries in California. The following report fulfills the CSB's commitment to examine whether the implementation of the safety case regulatory regime could be a more effective regulatory tool to achieve major accident prevention for California petroleum refineries. The reader will find additional issues, arguments, and counterarguments regarding the safety case regulatory regime addressed in Appendix C of this report.

US: Several injured in explosion at Massachusetts chemical plant

Several people were injured in a chemical explosion at the Dow Chemical plant in North Andover, Massachusetts on 7 January with at least five people injured being taken to hospital.

"We are aware of five injuries, at least one critical injury, all have been transported," North Andover Town Manager Andrew Maylor said. Fire officials said that three of those injured were flown hospitals in Boston which is about 30 miles away.

According to CBS Boston, emergency crews responded to the chemical facility around 2.30pm EST (7.30pm GMT). Maylor told reporters that there was no threat to residents and businesses and that chemicals were not released into the air.

"Whatever caused the explosion has been addressed, so there is not a current risk, whether that results in the need for a cleanup, I think that's why state officials are on site to address that," Maylor said.

Authorities are investigating the cause of the explosion. Fox News reported that the incident is being investigated by the fire investigation unit, the bomb squad and a state Hazmat team. A chemical explosion at the same Dow Chemical plant in 2013 led to the death of one worker.

Homeowner requests to have his new home sprinklered, builder says no

"Home fire sprinklers should be a matter of consumer choice"

"That's a popular argument made by sprinkler opponents, who balk at code requirements for this life-saving feature. Instead, they say they'll be glad to install the devices if a homeowner asks for them.

That's not what happened in New Jersey.

A news report on NJ.com, partly titled "Bamboozled," describes the rigmarole homeowner Ed Ondayko went through when he told his builder, Toll Brothers, he wanted fire sprinklers. "The safety and well-being of my family means everything to me," Ondayko, who works in the fire protection industry, told NJ.com. "One can replace their personal possessions and valuables, but nothing can replace the loss or disfigurement of a loved one due to a fire."

In an attempt to prevent these tragedies, Ondayko wanted Toll Brothers to install sprinklers in his new home in Monroe Township, New Jersey. The company wouldn't accommodate his request. A Toll Brothers representative in charge of the Monroe housing development noted in a letter that "we do not have the subcontractors and qualified personnel in place ... to grant this request and undertake a project such as this. He added, "we cannot commit to installing this particular feature in light of our current resources and expertise."

A subcontractor came forward on Ondayko's behalf and let Toll Brothers know he was qualified to perform the installation. Even though the contractor was already installing fire sprinklers at a Toll Brothers apartment complex in New Jersey, the company refused the offer, according to the NJ.com report.

After contacting the media, Toll Brothers met with Ondayko. According to the news report, Toll Brothers offered several options, including the option to have a Toll Brothers contractor install sprinklers. They refused to let Ondayko bring in his own contractor, even if that would cut installation costs. "It's basically their guy or no guy," Ondayko told NJ.com. Before making a decision, he's weighing his options.

"The primary response from homebuilders is that fire sprinklers should be the consumer's choice and not mandated," David Kurasz, executive director of the New Jersey Fire Sprinkler Advisory Board and member of the New Jersey Fire Sprinkler Coalition, told NJ.com. "Unfortunately, as seen in the case with Mr. Ondayko, many homebuilders simply do not want to install [sprinklers] as it is not a primary, money-making option like carpets, granite countertops, or crown molding."

- See more at: http://nfpa.typepad.com/firesprinklerinitiative//2015/12/homeowner-requests-to-have-his-new-home-sprinklered-builder-says-no.html#sthash.joEG2kTq.dpuf

Employment Opportunities

ARUP is looking for a Senior Fire Consultant/Engineer - Tri State Region - offices in Edison and NYC

At Arup, our innovative spirit compels us to express our ingenuity in unique ways —developing many of the world's most innovative and sustainable buildings, transport and civil engineering projects. Arup is a global engineering and consulting firm of 11,000 creative minds.

Our integrated approach to engineering and design brings together the best professionals to meet our clients' needs.

We are currently seeking a Senior Fire Consultant/Engineer to play a very active role in the continued development of Arup's fire engineering practice in the Americas and will work closely with many of the world's leading architects and building owners developing innovative, performance based design solutions for a wide range of building, industrial and transport projects.

Your responsibilities will involve:

- Provide fire safety consulting engineering services to a variety of potential clients, including but not limited to architects, developers, owners, government and insurers.
- Consulting on building codes and standards including IBC, NFPA codes and tri-state jurisdictions (NYC, NYS, NJ).
- Develop fire strategies for projects across all markets
- Fire alarm design and construction administration support including reviewing shop drawings, submittals, RFIs and conducting field reports for large rail projects.
- Responsible for project management of multiple projects to ensure successful delivery on time and budget.
- Developing client relationships and pursuing new business opportunities.
- Contributing to our research and development activities.

Qualified professionals will have a Bachelors or Master's degree in Fire Engineering or related field. PE license in fire protection engineering desired. Candidate must possess good communication skills essential for team-based working, excellent planning and organization skills required for our fast-paced environment, and must be highly motivated, proactive and willing to take on new challenges.

Share your passion and experience in a global culture that believes your potential to achieve is endless. This is your opportunity to shine.

Arup is proud to be an equal opportunity employer.

APPLY at: https://arupjobs.taleo.net/careersection/jobdetail.ftl?job=NEW000037&lang=en

Lockton Northeast Series – Property Risk Control Consultant

Location: Hartford (Farmington)/New York City/Philadelphia (Blue Bell)

About Lockton:

More than 5,300 professionals at Lockton provide 41,000 clients around the world with risk management, insurance, and employee benefits consulting services that improve their businesses. From its founding in 1966 in Kansas City, Missouri, Lockton has attracted entrepreneurial professionals who have driven its growth to become the largest privately held, independent insurance broker in the world and 10th largest overall. Independent researcher Greenwich Associates has awarded Lockton its Service Excellence Award for risk management for large companies. For five consecutive years, Business Insurance magazine has recognized Lockton as a "Best Place to Work in Insurance." To see the latest insights from Lockton's experts, check Lockton Market Update.

Lockton is known throughout the insurance industry as an entrepreneurial, progressive and successful insurance broker. As a result of continued individual and group accomplishments, Lockton has a record of steady and substantial growth. Unlike publically held companies that have to report to public shareholders on a quarterly basis, Lockton operates on a long term goal basis over years, not quarters. If you are a committed professional with a passion for delivering unparalleled service, Lockton is interested in hearing from you.

Job Description:

Responsibilities: Lockton is searching for an experienced property risk control consultant to work in a fast-paced team environment to support the insurance placement process, participate in the acquisition of new business and advocate for the client with insurers and support their risk management/property loss prevention processes and programs.

Qualifications:

- 5+ years of insurance carrier, broker or risk management property risk control experience.
- Bachelor's Degree in Engineering or Applied Science or equivalent
- PE license or CFPS certification a plus
- Strong oral and written communications skills
- Proficiency in knowledge and application of National Fire Protection Association (NFPA) Standards and FM Global Data Sheets
- Strong interpersonal skills to communicate effectively with clients
- Expertise in development and analysis of property insurance industry loss estimates including MFL's, PML's and LE's.
- Strong advocacy skills in working with FM Global insured clients
- Self-motivated individual with successful ability to work in a team environment
- Microsoft Office and internet proficiency

Interest candidates should contact David A. Larson, SVP - Risk Services Practice Leader, Lockton Companies, 1185 Ave of the Americas, New York, NY 10036; E-mail: dlarson@lockton.com; Office: (646) 572-7367.

Lockton Companies, LLC is an equal opportunity employer. As a privately held company, we offer a competitive compensation and benefits package reflecting our commitment to attracting and retaining great individuals. This includes health and dental coverage, which begins on your first day of work, 401(k) with match and immediate vesting, a competitive vacation plan and unrivaled career advancement opportunities.

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Affiliated FM Insurance
FM Global
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Phone: (973) 541-6771
Fax: (973) 541-6909

MEETING NOTICE

Date: Monday, February 1, 2016

Place: Hanover Manor
16 Eagle Rock Avenue
East Hanover, NJ 07936

Price: $30.00

Time: Gathering starts at 5 PM, meeting starts at 6 PM

Topic: What is Integrated Design?

Speaker: Robert F. Accosta Jr., PE, Sr. Fire Engineer, Arup

PLEASE COMPLETE AND RETURN WITH YOUR CHECK PAYABLE TO "SFPE NJ CHAPTER" TO:

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vicki.serafin@affiliatedfm.com

OR PAY AT THE DOOR

NAME: _____

COMPANY:_____TELEPHONE:_____

Meeting Dates/Programs 2015-2016

March 7	**John Drucker—NJ Code Update**
April 4	**"Managing corrosion in water-based sprinkler systems—the causes, the myths, and to how to assess" - Jeff Kochelek, CEO of Engineered Corrosion Solutions**
May 4	**Seminar**
June 6	**James Goerl Golf Outing will be held at the New York Country Club in New Hempstead, NY**
June 20	**Annual Meeting—Use of Large Capacity Lithium Batteries in NYC Buildings**

SFPE New Jersey

2015-2016 Chapter Committees

STANDING COMMITTEES

Program
Mike Newman

Arrangements
Vicki Serafin, Chairperson

Membership
Paul McGrath, Chairman

Nominating
Joe Janiga, Chairman (IPP)
Chris Vitale
John Antola, Jr.

Auditing
Vanessa Gallagher, Chairman
Rich Reitberger

Archivist/Historian
Jim Tolos, Vicki & Nicole

Speakers Gifts
Rich Reitberger

Communications
Fusible Link—Brad Hart
Ana Crisostomo—Coordinator

Communications-Other
Paul McGrath
Mike Newman

Mailing/Automation/e-mail—Vicki Serafin, Chairperson

Webmaster—Mike Newman & Paul McGrath

SPECIAL COMMITTEES

Spring Seminar
Ed Armm—Chairman
Dave Kurasz—Sprinkler Speakers Coordinator
Jim Loftus—Alarm Speakers Coordinator
Paul McGrath—Vendor Coordinator

Bylaws
Jim Tolos, Chairman
Joe Janiga
John Antola

Career Recruitment
Tim Costello, Chairman
Donna Spano
Marios Michaelides

Chapter Excellence Awards
Ernesto Vega-Janica

PE Examination
Donna Spano

Chapter Seminar/Field Trip
Richard Reitberger, Chairman
Ed Armm , CoChairman
Dave Gluckman
Nathan Gorey

Legislative
Rich Reitberger, Chairman
Jerry Naylis
Dave Kurasz

Finance
Rich Reitberger - Chairman
Vanessa Gallagher
C. Patel

HELPFUL LINKS

ADAAG http://www.access-board.gov/adaag/about/index.htm
AFAA National http://www.afaa.org/
AFSA http://www.firesprinkler.org/
ANSI http://web.ansi.org/
ASHRAE http://www.ashrae.org/
Campus-Firewatch http://www.campus-firewatch.com/
Coffee Break Training http://www.usfa.dhs.gov/nfa/coffee-break/
CPSC http://www.cpsc.gov/
CSAA http://www.csaaul.org/
Municipal Codes (E Codes) http://www.generalcode.com/Webcode2.html
FDNY http://nyc.gov/html/fdny/html/home2.shtml
FM Global http://www.fmglobal.com/
FSDANY http://www.fsdany.org/regs.htm
FSI http://www.firesprinklerinitiative.org/
FSSA http://www.fssa.net/
Fire Tech Productions—Nicet Training (FTP) http://www.firetech.com/
Home Fire Spklr Coalition http://www.homefiresprinkler.org/
HVAC Bld. Control Fire Safety http://www.iklimnet.com/hotelfires/hotelfiresmain.html
AFAA-NJ http://www.afaanj.org/
International Code Council - http://www.iccsafe.org/
International Code Council Residential Sprinkler Exam - http://www.iccsafe.org/news/nr/2009/0709_ResidentialSprinklerExam.pdf
The Joint Commission (JCAHO) - http://www.jointcommission.org/www.JointCommission.org/
Material safety data Sheets (MSDS-OSHA Site) - http://www.osha.gov/SLTC/hazardcommunications/index.html
National of Fire Equipment Distributors (NAFED) - http://www.nafed.org/index.cfm