

From: Bruno, Kenneth
Sent: 3/24/2014 5:19:27 PM
To: Doll, Laura (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=LRDD)
Cc: Malashenko, Elizaveta I. (elizaveta.malashenko@cpuc.ca.gov)
Bcc:
Subject: RE: 100 Largest Losses (in the Hydrocarbon Industry) 1974-2013 (Marsh)

Thanks Laura for sending – this is a very interesting report.

From: Doll, Laura [mailto:LRDD@pge.com]
Sent: Monday, March 24, 2014 5:10 PM
To: Malashenko, Elizaveta I.; Bruno, Kenneth
Subject: FW: 100 Largest Losses (in the Hydrocarbon Industry) 1974-2013 (Marsh)

Liza and Ken -- Perhaps you get these, but FYI.

Regards,

Laura

From: Stavropoulos, Nickolas
Sent: Monday, March 24, 2014 5:05 PM
To: Gas Ops Monthly KTS
Subject: FYI: 100 Largest Losses (in the Hydrocarbon Industry) 1974-2013 (Marsh)

Hi Team,

I thought you might be interested in the attached report. Jeff Weise from PHMSA sent this to me and the other members of the API Committee working to develop a Safety Management System for our industry. The report is particularly instructive about the importance of adequate management systems and rigorous process safety practices to build

the layers of protection necessary to prevent catastrophic events.

Best, Nick

The 100 Largest Losses (in the Hydrocarbon Industry) 1974-2013

Published: 18-Mar- 2014

Marsh's 23rd edition of The 100 Largest Losses explores the largest property-damage losses to impact the hydrocarbon extraction, transport, and processing industry, making it a valuable publication for risk professionals working across the energy sector.

The information set out in this report is compiled from Marsh's energy loss database, which holds almost 10,000 records of losses spanning a period of more than 40 years. Losses are expressed in 2013 estimated equivalent loss values, and grouped into the following five categories: refineries, petrochemical, gas processing, terminals and distribution, and upstream.

This report is intended to provide readers with a greater understanding of the risks to energy facilities by informing them of the wide range and scale of losses that have occurred in the past and the importance of process safety across the energy sector

See report at

<https://uk.marsh.com/Portals/18/Documents/100%20Largest%20Losses%2023rd%20Edition%20.pdf>

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