

We are



Hello,

December 2020

Process Safety Dispatch

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I'd like to tell you about the progress we've made here at Stonehouse – and by popular demand - provide you access to some of the **case histories**, **technical articles** and "**explainers**" that we've covered over the past 12 months in Process Safety Dispatch.

Progress at Stonehouse

Stonehouse was conceived back in the late months of 2017. Sitting around the kitchen table with friends and colleagues back then, a plan was developed to **raise the bar** in provision of **expert process safety services**. Stonehouse Process Safety was born.

We set out to make use of our decades of experience in process safety consulting, testing and training – to provide a new kind of service that was **customer focused**, **highly responsive**, **practical**, and **cost-effective** but without losing site of the need to provide the highest levels of **quality**. We believe we have got something right! To manage demand over the past 12 months we have doubled our staff, added new tests, and duplicated equipment to broaden capability. We thank all of our clients for their encouragement and enthusiastic support for what we are doing. We look forward to continuing working with you – as well as welcoming new clients into the 'Stonehouse way' in the year ahead.

Free on-line technical resource

We have heard that the technical articles, case histories and explainer pieces we run in Process Safety Dispatch each month are building to be a useful resource for our clients and contacts. We therefore have catalogued these (below) to make them easier to find and access. The links below provide instant access to this year's *Cases in the News* including the Beirut ammonium nitrate explosion and explosions associated with the manufacture and use of hand sanitizer – a left-field consequence of Covid-19. Other popular pieces covered explosions caused by static electricity, particularly those associated with emptying powders from drum and bags into vessels. And in the *Explainers* section, you may wish to read again an explanation of Kst as well as understanding the difference between Auto-

ignition Temperature and Flash Point.

How we can help your company

To us, 'raising the bar' in process safety services provision involves building strong, trusted relationships with our contacts and clients. We encourage lots of discussion to formulate projects. We help, discuss, and provide first-line advice without charge on any process safety matter, whether or not it becomes a project for us.

Please feel free to call 609-455-0001 or email us info@stonehousesafety.com, or visit our [website](#) for more information.

Wishing you a happy & successful New Year.

Vahid Ebadat, Ph.D.

CEO

Stonehouse Process Safety



Expert Consulting

- Dust Explosion Prevention & Mitigation
- Control of Static Electricity
- Hazardous (Electrical) Area Classification
- Process Hazard Analysis
- Process Safety Management
- Fire and Explosion Hazard Assessment
- Incident Investigation
- Organizational Process Safety Competency Assessment

Specialist Laboratory Testing

- Combustible Dust Testing
- Electrostatic Testing
- Self-Heating / Thermal Instability Testing
- Flammability Testing of Gases & Vapors



Technical Articles: January to December 2020

Dust Explosions

- Delayed Dust Explosion in Belgium
- Grain and Processing Explosions – Why So Many?
- Dust Explosion Testing: Why do it now?
- Do your own Dust Hazards Analysis (DHA)? and How to find a competent DHA consultant?

- Performing Dust Hazard Analysis (DHA) During the Coronavirus Pandemic Lockdown

Process Safety

- Understanding Risk and Basis of Safe Operations
- Hierarchy of Controls in Process Safety
- Ammonium Nitrate: From Texas City to Beirut via Tianjin...
- Flour Packaging Explosion; The Normalization of Risk
- Explosions Associated with Ethanol Production

Static Electricity

- It's Winter – Static Electricity Time
- Flammability - Static Electricity in Plastic Liners and Drums
- Manually Transferring Powders: Explosion Risk Explained
- Electrostatic Hazards: The Barton Solvents Explosion Revisited

Self-Heating / Thermal Instability

- Ammonium Nitrate: From Texas City to Beirut via Tianjin...
- Two Explosions, Two Fires, Two Days, No Water
- Spontaneously Combusting Hand Sanitizer? Understanding Auto-ignition Temperature and Flash

Training / Competence

- Can Computer-based Process Safety Training be Effective?

Classifying Hazardous Areas

- Electrical Area Classification or Hazardous Area Classification

Cases in the News

- Ammonium Nitrate: From Texas City to Beirut via Tianjin...
- Pet Food Factory Explosion – A Lesson in Combustible Dust
- Two Explosions, Two Fires, Two Days, No Water
- Hand Sanitizer Explosion Kills 2, Injures 3
- Case History: Manually Transferring Powders: Explosion Risk Explained
- Electrostatic Hazards: The Barton Solvents Explosion Revisited

Explainers

- What is Kst, Pmax...?
- Your Process Safety Questions Answered
- Understanding Auto-ignition Temperature and Flash Point: Spontaneously Combusting Hand Sanitizer?

If you would like a quote for any of our testing and/or consulting services, please click on the button below. We will get back to you promptly with your proposal.

REQUEST A QUOTE

Free On Demand Webinars

Combustible Dust Hazards: Assessment, Prevention and Protection Including the Requirements of NFPA 652 [\[watch\]](#)

Electrostatic Hazards in Processing Industry: The Nature of the Problem and Practical Measures for its Control [\[watch\]](#)

Fire and Explosion Hazards: How to Identify and Control Them in Your Process [watch]

If you received this newsletter from a colleague and would like to sign up to receive our newsletters in the future -- Sign up [Here](#).