

We are



Hello,

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## Process Safety Dispatch

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### Process Safety, Hindenburg Airship Disaster, a Mule, a Yacht

WHAT DO THESE 4 THINGS HAVE IN COMMON?



Photos by Anna Kaminova and Kristel Hayes on Unsplash

Here's a puzzler for you...

What does the Hindenburg Airship disaster of 1937, a mule, a yacht and process safety in 2021, all have in common? In this issue of Process Safety Dispatch, we find out. But first some definitions....

Definitions:

1. **Hindenburg Airship Disaster:** took place 84 years ago in the skies above New Jersey as the hydrogen-filled 'balloon' with 97 persons on board caught fire and exploded on its approach to its mooring location. This, at the end of its first ever journey with passengers from Frankfurt, Germany to the USA.
2. **Process Safety:** is a disciplined framework for managing the integrity of operating systems and processes handling hazardous substances. It deals with the prevention and control of incidents that have the potential to release hazardous materials or energy that could ultimately result in serious injuries, property damage, lost production, and environmental impact.
3. **Mule:** the offspring of a horse and a donkey, especially, the offspring of a male donkey and a mare.
4. **Yacht:** a sailboat with a mast used for racing or pleasure.

So, for our puzzler we have an airship full of hydrogen gas, a cross between a horse and a donkey, a yacht and a discipline to which many of us strive to adhere – yet there is a clear link. Read on to discover more...

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## 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



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# Combustible Dust: Sampling for Dust Combustibility Testing

Our 'Go To' guide for selecting/collecting your powder samples for combustibility testing.



Photo by Joel Henry on Unsplash

OK, so you have understood from NFPA 652 that you are responsible for determining if your materials are combustible or explosible, and if so, for characterizing their properties as required to support your Dust Hazards Analysis (DHA) [Ref 1]. Maybe you have selected the tests you think you need, and perhaps even sent an order to a test house somewhere. All you need to do now is collect the samples and ship them, right?

Stop right there.

Let's take a step back and consider how you arrived at your decision to select those powder/dust samples and then review how you might go about collecting and shipping samples so as to ensure you get test results that can actually be used in your DHA.

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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.

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## 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** [\[watch\]](#)

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