



# OSPREY

News and information for the employees and clients of Osprey Corporation.

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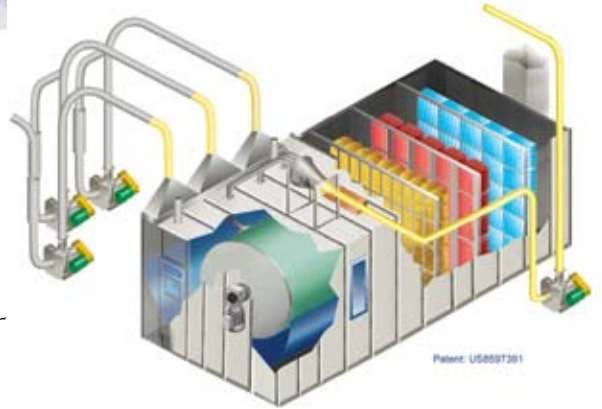
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## Blue-Sky Filter Patent Issued

We are pleased to announce that on December 13, 2013, US Patent No. 8,597,391 B1 was issued for the Osprey Blue-Sky filter. First introduced at Index 2011, the Blue-Sky filter is a proven and safe filter design for those wanting the highest filtration efficiency available along with a reduced explosion risk. The filter consists of a primary rotary drum filter stage and a HEPA filter stage coupled to the outlet side of at least one passive filter stage.

Osprey was also issued on March 25, 2014, US Patent No. 8,679,236 B1 for a Blue-Sky filter retrofit method. This retrofit method can be for the replacement of Osprey Cartridge



Final Filters or as an addition to single stage filters. Todd Dietz, Osprey's engineering manager, was instrumental in the patent process. We would like to thank Todd, Drew White, and the many others at Osprey for a successful outcome.



*Airflow Training - Singapore*

## Airflow & Advanced Hygienic Training

Osprey offers two training programs designed to teach critical subjects such as air system design, core forming, and production line optimization. Important topics related to troubleshooting process air systems, duct design, and fundamentals of airflow and safety are covered in an intensive three day training course. Participants will develop a deeper understanding of air system design and balancing which

will allow them to operate their lines with more efficiency in a cleaner and safer environment.

### Advanced Hygienic Training:

**Date:** September 16-18, 2014

**Location:** Chateau-Arnoux, France.

Featured presenters are Nordson, Optima, Fameccanica, Accusentry, Innovent, Osprey, Sandvik, and Bicma. For availability and pricing information, please contact Christoph Ritter at [c.ritter@ospreyfilters.com](mailto:c.ritter@ospreyfilters.com)



*Airflow Training - France*

## Product Development Update

We are constantly developing improvements to existing equipment that increase performance and reliability while simplifying maintenance.

- Our new Rotary Diverter Valve includes an active sealing mechanism that provides increased cleaning capability for all drum filters.

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## Is This Dust Hazardous?

If you are considering the purchase of a drum filter or similar equipment for filtering process air, there is a possibility that the material being conveyed from the process lines to the filter is combustible. Many readers have a general idea of the dangers involved with combustible dusts, and have heard of the terms NFPA 654 or ATEX, but what do plants need to understand about these terms? This article will help define the concept of combustible dust, introduce the standards that pertain to combustible dust, and describe the typical steps that plants should follow once they recognize that they may be dealing with a combustible dust.

## Is this Dust Combustible?

Dust explosions are serious hazards that have led to loss of life and major facility damage in many industries. For dust explosions to occur there are five elements needed: fuel (combustible dust), oxygen, ignition source, correct dust dispersal concentration, and confinement. Combustible dusts are often defined as fine particulates that present a flash fire hazard or explosion hazard when suspended in air in certain conditions. There are many types of materials that can be combustible, including plastic, wood (cellulose), textiles and chemicals to name just a few. These particular materials are listed because they are common to many readers of this newsletter. If you work with these materials, have you taken the necessary steps to determine if your application poses an explosion hazard that requires additional preventative measures? Have you sent the material to a laboratory for testing to determine

its explosive characteristics? If the answer to either question is no, then it is likely that you need to become more familiar with the industry standards that relate to preventing dust explosions.

## What are the Relevant Standards?

In the U.S., The National Fire Protection Agency (NFPA) issued the 2013 edition of NFPA 654: Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids 1. This standard provides guidance on the procedures that plants should take to prevent dust explosions and fires in facilities that handle, manufacture, process or convey combustible dust. This standard describes the risk assessment which is required to determine whether a hazard exists, the preventative actions required, and the follow-up documentation required. This standard also refers to several other NFPA standards for information on how to implement other protective measures such as deflagration venting or explosion prevention systems.

For Europe, Directive 94/9/EC, commonly referred to as ATEX 2, provides the technical requirements to be applied to equipment and protective system for use in potentially explosive atmospheres. (Note: This directive is being replaced by an updated version, 2014/34/EU, in 2016). The technical requirements for conforming to this ATEX directive are detailed in separate "Harmonized Standards" for electrical and non-electrical equipment.

## What Actions are Required?

A thorough review of the applicable standards is required to determine what is required for each particular

process and material. However, some of the basic steps that plants need to follow are the same in many instances. A hazard analysis needs to be conducted to determine if there is a fire or explosion risk in the process. The first step in this process is to determine whether the dust is explosive, so the material will need to be sent to a laboratory to determine the explosive characteristics of the material. If it is determined that the material is explosive, then the plant will need to refer to the relevant standards for guidance on what additional actions are required. The test results will also need to be supplied to any equipment suppliers so that they can properly design the required equipment.

## Summary

The purpose of this article is to make readers aware of the fact that the materials being handled in their process could be combustible and could therefore pose an explosion hazard. Therefore, the plant must become familiar with the relevant combustible dust standards: NFPA 654 in the U.S., and ATEX directive 94/9/EC in Europe. Following the recommendations in these standards can help protect employee life, reduce the risk of equipment damage, and help ensure legal compliance.

Osprey Corporation can provide general guidance on what steps customers should be taking to become more familiar with the NFPA standards and ATEX directives, and can provide equipment which meets the requirements of these standards.

**Contact Osprey Corporation today for more information at: [www.ospreyfilters.com](http://www.ospreyfilters.com)**



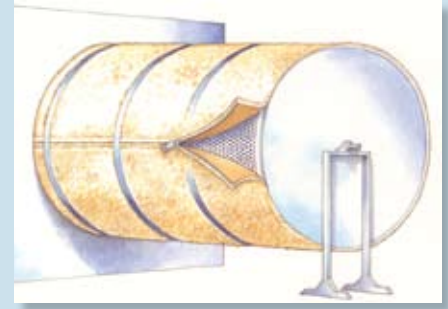
## Recycle More Film with Existing Assets

Osprey roll feeders allow you to recycle more than just trim or the occasional roll with your existing grinder. Our roll feeders are custom built in various sizes and include features like high strength tension rolls, speed adjustment, and individual wiper blades to prevent aggravating roll wrapping. Osprey roll feeders are easy on your budget, easy to install, and easily help you start saving. That's better for you, and better for everyone.

## Guardian Seal & Zipped Media

Since the Guardian Seal and Zipper Media have been introduced, a majority of customers have switched to the new drum seals and filter media. Customers who have made the switch have rarely gone back to the original seals and media.

Osprey will still offer the older designs. However, they require longer lead times due to the reduced volume of sales. Please ask for the latest designs to reduce direct costs and valuable downtime.



## Product Development Update: *continued from page 1*

- Final design is complete on a system that will reduce filter media installation time by up to 50%. Particular considerations have been made to benefit customers with large size filters using heavy and cumbersome media working in a limited space.
- A new mounting assembly for drum filter vacuum nozzles simplifies installation and eliminates side-to-side movement of the current design. The new design is easier to position and slides

along a common mounting rod. The side-to-side movement was the leading cause of interference and damage between the vacuum nozzles and the media holding bands.

- Future developments include user friendly controls interface for better operational awareness and continuing development on new filter platforms that are smaller in size with increased capacity.



*New Hanging Nozzle Assembly*



*New Rotary Diverter Valve*

## Announcements

### Danielle Harwood



As an administrative assistant, Danielle is the first impression of Osprey for many that contact or visit. Originally from Covington Georgia, Danielle graduated from Georgia Southern with a Bachelor of Science degree. Danielle enjoys concerts and visits to the beach. Her hobbies include painting, decorating, and crafting. Danielle also assists accounting, sales, and technical service.

### Justtyn Hutcheson



Justtyn attended the Georgia Institute of Technology where he obtained a B.S. degree in Mechanical Engineering in 2009. Prior to joining Osprey, Justtyn designed a range of wide-area surveillance platforms including electronics enclosure layout and design. He currently lives in Duluth with his wife, Jennifer, and their two dogs.

### Stephen Kasik



Stephen recently joined Osprey as a project engineer. Stephen grew up in Marietta, Georgia where he attended Southern Polytechnic State University, graduating in 2009 with a degree in Mechanical Engineering Technology. Stephen's engineering background includes machine design and project management.

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## Andrew Montgomery

After graduating New College Lanarkshire, Scotland with a degree in Physics and Engineering, Andrew started a career in mechanized scaf-

folding and aerial platforms. Later, he focused his attention on auto hauling system where he worked with a team that developed a new and advanced auto hauling platform. As part of the product development group at Osprey, Andrew builds machines in 3D CAD, assembles finished components, and assists with testing and evaluation.



## Brandon Roberts

Brandon is Osprey's newest field service technician. A native Atlantan, he served in the United States Marine Corps and is a Desert Storm veteran. After serving in the military, Brandon

worked in commercial heating and air conditioning systems for ten years. Most recently, he was a mechanical technician with a soft disposables manufacture. Brandon has a daughter, 13, and a 10 year old son.



## In Memoriam: Joe Williams

With great sadness and regret, we report that William Joseph (Joe) Williams, age 77 of Griffin, passed away May 15, 2014 at his home.

Mr. Williams served his country in the United States Navy on the U.S.S. Bream, SS 243. He turned down a football scholarship to enlist in the

Navy. Joe enjoyed golf, loved his family, and was a friend to everyone. He gave 35 years of service to the company and was like family. Joe was part of a very special group that started with Mr. Tom Barron Sr. in 1964. He possessed great strength and kindness. Those who met Joe will never forget his strong handshake. Said his wife, Betty, "Even to his last days before going to bed, he would always say good night, sleep tight, don't let the bed bugs bite, and I love you."

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