

## Aires Consulting Combustible Dust Recognition Survey

### Loss Potential:

From 1980 through 2005 there were 281 combustible dust fires and explosions in general industry. These incidents resulted in 119 workers killed and 718 workers injured. Seven (7) of these explosions were catastrophic, involving multiple fatalities and a significant economic impact.

### The Solution:

Combustible dust risk factors are not readily apparent to all. A member of Aires senior staff trained in the identification, recognition, and control of combustible dust hazards will perform a one day onsite recognition survey. The survey will specifically examine the following critical issues:

- Walk-through inspection of the entire process.
- Examination of the process materials for combustibility.
- Examination of dust clouds and surface dust accumulations at the facility.
- Evaluation of process equipment for explosion hazards and the presence of explosion protection.
- Review of the electrical installations in combustible dust areas.
- Review facility programs and procedures including; housekeeping, hazard communication and hot work programs.

A complete report is issued, which documents the recognition survey. Where applicable this report identifies action items and priorities to lower combustible dust risks.

The combustible dust recognition survey is an essential loss control tool in reducing the potential for catastrophic combustible dust incidents.

Based upon the results of the survey Aires can provide additional assistance as requested, including the development of a Combustible Dust Control Program (CDCP).



### Elements of a Combustible Dust Explosion

- ✓ Fuel (Dust)
- ✓ Ignition Source
- ✓ Oxygen
- ✓ Dispersion of Dust Particles
- ✓ Confinement of Dust Particles

### Potential Dust Exposures

- ✓ Metal
- ✓ Wood
- ✓ Plastic
- ✓ Biosolids
- ✓ Coal
- ✓ Organics (Food)
- ✓ Textiles



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