

Dust nuisance around companies

- measurement of dustfall through wind directional sampling



FORCE Technology has developed a new method for indicating where fallout dust is dispersing from. The method is called METDUST.

METDUST measurement equipment

Dust problems may arise in the vicinity of industries with outdoor deposits and stores of dust emitting materials, including stores of coal, flyash, sawdust and shavings and corn.

The finer and lighter the particles stored, the greater the risk that the wind will raise and disperse dust into the surrounding environment.

That part of the raised dust, which is deposited, is referred to as fallout dust. Fallout dust is measured as the quantity of dust deposited per unit of time per unit of area.

When dust fallout exceeds a certain level, complaints will usually be heard from the affected residents in the vicinity of the source.

Such complaints are processed by the supervisory authority, i.e. usually the environmental departments of local districts and counties.

As far as possible, supervisory authorities seek to carry out objective checks of the scope of the problem.

FORCE Technology has developed a new method capable of showing the origin of dust. The newly developed measurement equipment has been named METDUST.



Appliance of METDUST

METDUST can be used anywhere where there is a need to chart the scope of dust nuisance.

FORCE Technology offers the following measurements using METDUST:

- Fly ash from depots around incineration plants
- Coal particles from coal stores around power stations
- Wood dust from the timber processing industry
- Quarry dust
- Organic dust from corn drying
- Gravel pit dust
- Lime dust from crushing of lime containing products
- Dust from building sites.

The great advantage of METDUST is that it can be set to collect dust when the wind is blowing from predetermined directions.

In contrast, traditional bulk sampling methods are unable to show where the dust is coming from.

Thus when using the traditional method (containers that are permanently open and which do not take wind direction into consideration) discussions nearly always arise as to who or what is the origin of any higher than normal values.

FORCE Technology has implemented the method in assignments involving measurement and consultancy in the area and has already carried out many measurements at Danish installations.

Yderligere information

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