

Dust Collection Design And Maintenance

Collections maintenance

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Collection maintenance is an area of collections management that consists of the day-to-day hands on care of collections and cultural heritage. The primary goal of collections maintenance or preventive conservation is to prevent further decay of cultural heritage by ensuring proper storage and upkeep including performing regular housekeeping of the spaces and objects and monitoring and controlling storage and gallery environments. Collections maintenance is part of the risk management field of collections management. The professionals most involved with collections maintenance include collection managers, registrars, and archivists, depending on the size and scope of the institution. Collections maintenance takes place in two primary areas of the museum: storage areas and display areas.

Collection...

Dust collector

gas. Designed to handle high-volume dust loads, a dust collector system consists of a blower, dust filter, a filter-cleaning system, and a dust receptacle

A dust collector is a system used to enhance the quality of air released from industrial and commercial processes by collecting dust particle and other impurities from air or gas. Designed to handle high-volume dust loads, a dust collector system consists of a blower, dust filter, a filter-cleaning system, and a dust receptacle or dust removal system. It is distinguished from air purifiers, which use disposable filters to remove dust.

Dust explosion

Selection, Installation and Maintenance Seminars for Combustible Dust Safety HSE (UK) advice on safe handling of

combustible dust Combustible Dust, CCOHS

A dust explosion is the rapid combustion of fine particles suspended in the air within an enclosed location. Dust explosions can occur where any dispersed powdered combustible material is present in high-enough concentrations in the atmosphere or other oxidizing gaseous medium, such as pure oxygen. In cases when fuel plays the role of a combustible material, the explosion is known as a fuel-air explosion.

Dust explosions are a frequent hazard in coal mines, grain elevators and silos, and other industrial environments. They are also commonly used by special effects artists, filmmakers, and pyrotechnicians, given their spectacular appearance and ability to be safely contained under certain carefully controlled conditions.

Thermobaric weapons exploit this principle by rapidly saturating an area...

Fugitive dust

dust that is visible from a distance is known as a dust cloud, and a large dust cloud driven by a gust front is known as a dust storm. Fugitive dust particles

Fugitive dust is an environmental air quality term for very small particles suspended in the air, primarily mineral dust that is sourced from the soil of Earth's pedosphere. A significant volume of fugitive dust that is visible from a distance is known as a dust cloud, and a large dust cloud driven by a gust front is known as a dust storm.

Fugitive dust particles are mainly minerals common to soil, including silicon oxides, aluminum oxides, calcium carbonates and iron oxides. About half of fugitive dust particles are larger than 10 micrometres in diameter and settle more quickly than the smaller particles. It does not include particulate matter from other common artificial sources such as vehicle exhaust, burn piles or smokestacks. The term is used to denote that the dust "escapes" into the...

Wet scrubber

characteristics and dust properties (if particles are present) are of primary importance. Scrubbers can be designed to collect particulate matter and/or gaseous

The term wet scrubber describes a variety of devices that remove pollutants from a furnace flue gas or from other gas

streams. In a wet scrubber, the polluted gas stream is brought into contact with the scrubbing liquid, by spraying it with the liquid, by forcing it through a pool of liquid, or by some other contact method, so as to remove the pollutants.

Wet scrubbers capture relatively small dust particles with the wet scrubber's large liquid droplets. In most wet scrubbing systems, droplets produced are generally larger than 50 micrometres (in the 150 to 500 micrometres range). As a point of reference, human hair ranges in diameter from 50 to 100 micrometres. The size distribution of particles to be collected is source specific.

For example, particles produced by mechanical means (crushing...

Collection manager

Control: Dust, pests, light exposure, extremes and/or fluctuations in temperature and relative humidity can adversely affect objects. The collection manager

A collection manager ensures the proper care and preservation of objects within cultural institutions such as museums, libraries, and archives. Collection managers, along with registrars, curators, and conservators, play an important role in collections care. Collection Managers and Registrars are two distinct collection roles that are often combined into one within small to mid-size cultural institutions. Collection Managers can be found in large museums and those with a history and natural history

focus whose diverse collections require experienced assessment to properly sort, catalog, and store artifacts. A collection manager may oversee the registrar, archivist, curator, photographer, or other collection professionals, and may assume the responsibilities of these roles in their absence...

Baghouse

filter, bag filter, or fabric filter is an air pollution control device and dust collector that removes particulates entrained in gas released from commercial

A baghouse, also known as a baghouse filter, bag filter, or fabric filter is an air pollution control device and dust collector that removes particulates entrained in gas released from commercial processes. Power plants, steel mills, pharmaceutical producers, food manufacturers, chemical producers and other industrial companies often use

baghouses to control emission of air pollutants. Baghouses came into widespread use in the late 1970s after the invention of high-temperature fabrics (for use in the filter media) capable of withstanding temperatures over 350 °F (177 °C).

Unlike electrostatic precipitators, where performance may vary significantly depending on process and electrical conditions, functioning baghouses typically have a particulate collection efficiency of 99% or better, even when...

309th Aerospace Maintenance and Regeneration Group

Aerospace Maintenance and Regeneration Group (309th AMARG), often called The Boneyard, is a United States Air Force aircraft and missile storage and maintenance

The 309th Aerospace Maintenance and Regeneration Group (309th AMARG), often called The Boneyard, is a United States Air Force aircraft and missile storage and maintenance facility in Tucson, Arizona, located on Davis-Monthan Air Force Base. The 309th AMARG was previously Aerospace Maintenance and Regeneration Center, and the Military Aircraft Storage and Disposition Center.

The 309th AMARG takes care of nearly 4,000 aircraft, which makes it the largest aircraft storage and preservation facility in the world. An Air Force Materiel Command unit, the group is under the command of the Ogden Air Logistics Complex at Hill Air Force Base, Utah. The 309th AMARG was originally meant to store excess Department of Defense and Coast Guard aircraft, but has in recent years been designated the sole repository...

Housekeeping

well as the maintenance of computer storage systems. The basic concept can be divided into domestic housekeeping, for private households, and institutional

Housekeeping is the management and routine support activities of running and maintaining an organized physical institution occupied or used by people, like a house, ship, hospital or factory, such as cleaning, tidying/organizing, cooking, shopping, and bill payment. These tasks may be performed by members of the household, or by persons hired for the purpose. This is a more broad role than a cleaner, who is focused only on the cleaning aspect. The term is also used to refer to the money allocated for such use. By extension, it may also refer to an office or a corporation, as well as

the maintenance of computer storage systems.

The basic concept can be divided into domestic housekeeping, for private households, and institutional housekeeping for commercial and other institutions providing shelter...

Vacuum cleaner

suction, and often agitation, in order to remove dirt and other debris from carpets, hard floors, and other surfaces. The dirt is collected into a dust bag

A vacuum cleaner, also known simply as a vacuum, is a device that uses suction, and often agitation, in order to remove dirt and other debris from carpets, hard floors, and other surfaces.

The dirt is collected into a dust bag or a plastic bin. Vacuum cleaners, which are used in homes as well as in commercial settings, exist in a variety of sizes and types, including stick vacuums, handheld vacuums, upright vacuums, and canister vacuums. Specialized shop vacuums can be used to clean both solid debris and liquids.

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