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Best Management Practices. Agency's (EPA) Storm Water Pollution Prevention Plans and sources are faced with the Environmental Protection

permits issued in 1992. require the EPA to address storm water runoff. Federal reg-The National Urban Runoff Program (NURP) and Clean ulations were promulgated in 1990, with the first general water quality. Congress amended the CWA in 1987 to Water Act (CWA) report submitted to Congress in the 1980s identified contaminated storm water as harmful to

gram, as required by a state general permit, of identifying pollution that results from this runoff. fied in a SWPPP and that BMPs must be used to control the sources for storm water runoff (such as rooftops) be identi-Permit. Storm water permits require that all potential water discharges during activities covered by the General non-storm water discharges and reduce pollutants in storm ment and implementation of BMPs to effectively prevent potential pollutant sources and describing the design, place-A Storm Water Pollution Prevention Plan (SWPPP) is a pro-

> to know to help control the problem What the restaurant industry needs

FOG that is released by rooftop grease exhaust ventilators disposing of all FOG generated in a restaurant, including storm water drain systems. BMPs include relatively simple runoff of fats, oil and grease that spill onto roofs and into housekeeping practices that reduce water pollution sources. BMPs should include source reduction efforts and good tasks, such as identifying, collecting, trapping, and properly This means businesses are responsible for controlling the

consultant. He says, "Rooftop spills and grease contamination to look at very closely," notes David R. Hawn, president of problem that the restaurant and food service industry needs that spills from rooftop exhaust equipment. "This is one depending upon the specific material." This, he says, "can cost food service operators thousands of dollars each year. generated from exhaust ducts and ventilators continue to Dedicated Roof and Hydro-Solutions and a registered roof One of the most overlooked areas of such a plan is grease causes most roofs to soften, delaminate, blister, or crack, lead to leaks, premature failure, and environmental hazards." When grease comes in contact with a roofing system, it

is a poorly designed collection device. It is required that all The leading cause of rooftop grease spills and contamination .nfabk.org

and have not heard the terms "Best Management (SWPPP), and "Rooftop Grease Contamination" If you are in the quick-serve restaurant business grease-blocked sewer spills. increasingly hold restaurants accountable for world of food service, as regulatory agencies grease management is spilling quickly into the Practices" (BMPs), "Fats Oil and Grease" (RGC), it's about time you did. The lexicon of "Storm Water Pollution Prevention Plans" (FOG),

the disposal of fats, oil and grease. Thanks to efforts by For a recent case history, look no further than Los Angeles. follow BMPs in the disposal of fats, oil, and grease (FOG) the city changed its proposal to require that all restaurants requirement of installing costly underground interceptors for This past summer, restaurants in the city were spared the California Restaurant Association government affairs staff,

ate and discharge FOG and other potential pollutant problem of rooftop grease disposal. All industries that gener-Nationwide, the restaurant industry has the same common 2

modifying, revoking and reissuing, terminating, monitoring System (NPDES). This is the national program for issuing, The EPA requires businesses that are discharging pollutants and enforcing permits; and imposing and enforcing pretreat. fall under EPA's National Pollutant Discharge Elimination into storm water drains to develop SWPPPs. These plans

FOG between the collection device and the roof surface; and maintain. They overflow and can leak, trapping hazardous Unfortunately, many of these contraptions are not designed commercial kitchens generate. They are also difficult to clean to collect and trap the volume of liquid grease that most fill with grease and rainwater, they overflow onto roofs and this can cause permanent roof damage. When these devices into rooftop storm drains, causing storm water pollution.

exhaust duct. These devices are supposedly designed to device in place typically found under the drain spout of the cases rooftop ventilators have some type of collection catch grease spills. ventilator. Some are located on the lower base section of an place that meets industry standards. However, many restaurant operators seem to overlook this requirement. In most

rooftop ventilators have a grease containment product in

By Joseph Baribeau





inhibit the performance of any fan." tion device that is applied to exhaust systems shall not the fan or duct near the termination of the system into a cooking operations," says "Rooftop termination shall be and food service industry is also faced with the National In addition to the EPA's SWPPPs and BMPs, the restaurant proof, structurally sound for the service to which it is collection container that is noncombustible, closed, rainto drain grease out of any traps or low points formed in arranged with or provided with the following: The ability "Ventilation control and fire protection of commercial 7.8.2.1. found in the 2001 edition. The section, titled applied, and will not sustain combustion. A grease collec-Fire Protection Association's (NFPA) Code 96 section

tractor or employee is on a roof that has a grease probgrease spills also pose a safety hazard. Every time a con-Rooftop grease spills are a major health hazard. Rooftop grease attracts all types of pests and rodents. Rooftop lem, they run the risk of coming in contact with grease.

tors. Unfortunately, an operator's not knowing of a hazard working environment for employees and outside contraclaw or at a workers compensation hearing. or problem does not stand up as a defense in a court of responsibility of the restaurant operator to provide a safe claims and personal injury claims each year. It is the dents cost thousands of dollars in workers compensation the bottom of their shoes. Work related slip and fall acci-We all know what happens when someone gets grease on

place to stop grease from spilling onto a roof. Restaurant grease. To correct this commonly overlooked problem, maintaining these requirements. ing their roofs more frequently. It is also good practice to identifying hidden hazards in the workplace such as rooftop owners need to be vigilant when it comes to enforcing and make sure proper grease containment products are in restaurant operators and managers need to start inspect-It is important for restaurant operators to get involved in

or replacement filter in place. plastic buckets, sandboxes, and any other type of obsolete devices such as sheet metal collection boxes, contraption that do not have a disposable grease diaper It is important to remove any traditional collection or

tem should be waterproof. Rainwater or FOG should not spilling the grease onto a clean roof. Replacement grease A properly designed grease containment system will allow system in place would be defeated. passes through, the purpose of having a grease containment be able to pass through the collection material. If water diapers or filters that are provided with a containment sysrainwater to drain out of the equipment or system without

> the roof around the base or duct curbing of an exhaust system and the roof's surface, causing roof damage. system. These devices could trap the FOG between the fan should be replaced with a proper grease containment Any containment product that is found sitting directly on

grease containment products are very expensive to purment equipment be UL listed. industry standard or required that rooftop grease containexpensive piece of equipment to work properly. It is not an containment system doesn't necessarily need to be an to replace and maintain as well. A good rooftop grease chase and have installed. Replacement filters are very costly filter that can easily be replaced as needed. Caution: Some the system chosen provides a disposable grease diaper or purchase of grease containment products is to make sure Another thing to remember when considering the

free consultation for the best solution available. grease containment manufacturers and distributors provide safety over those prescribed by this standard." Some quality, strength, fire resistance, effectiveness, durability, and systems, methods, or devices of equivalent or superior 2001 edition and section 1.5 Equivalency, which reads, Protection Association's (NFPA) Code 96 section 7.8.2.1. "Nothing in this standard is intended to prevent the use of This standard can be verified in the National Fire

can be installed for maximum protection. exhaust ventilator, there are products on the market that point of spillage. If grease is leaking from other areas of an be installed directly under the ventilator's drain spout or grease ventilator. For best results, this equipment should grease diaper or filter in place can easily be attached to any tant that the equipment or the drip pan that holds the When choosing a grease containment product, it is impor-

code 96 section 7.8.2.1 could be used as a guideline. requirements of local, state and federal agencies. NFPA containment product you choose should always meet the more than is needed to solve the problem. The grease containment systems are very expensive and most are Be careful when choosing, as most four-sided grease

chain is happy with a product it is safe to purchase. sure it works and is simple to install and maintain. Also, monials. Chances are that if a large quick-serve restaurant it is always a good idea to ask for customer product testi-When considering a grease containment product, make

important. Remember that the cost of corrective action is the proper rooftop grease containment product is so grease contamination and regulations. This is why choosing minimal compared to the cost of ignoring the problem. As you can see, there is much to know about rooftop

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