



Division of Solid and Infectious Waste Management

Summary of the Fire and Explosion Related Requirements in OAC Chapter 3745-520 “Regulation of New Construction and Demolition Debris Facilities”

Does OAC Chapter 3745-520 “Regulation of New Construction and Demolition Debris Facilities” apply to me?

- OAC Chapter 3745-520 DOES NOT APPLY to an existing C&DD facility that will be filled up and closed without expanding the existing facility boundary or existing disposal limits.
OAC Chapter 3745-520 DOES APPLY to an owner or operator of a “new C&DD facility”; the statutory term “new C&DD facility” includes a proposed C&DD facility that has never existed before and an existing C&DD facility where the owner or operator wants to expand the facility.

When do the new fire and explosion related rules apply to operation of a new C&DD facility?

The new fire related requirements apply upon issuance of new facility C&DD license. The requirements for a new facility C&DD license application are found in OAC rule 3745-520-400.

Where are the fire and explosion related requirements for new a C&DD facility found?

The table below identifies the location of fire related requirements. Fire and explosion related operational requirements apply during a new C&DD facility’s operation, during closure, and throughout the post-closure care period. License application rules require submittal of a fire and explosion contingency plan as part of the general plan of facility operations. There are monitoring requirements for fire detection that apply should the facility have a gas management system.

Table with 2 columns: OAC Rule Number and Requirement Description. Categories include: Fire and explosion: operational requirements, Fire and explosion: license application requirements, and Fire and explosion: closure and post-closure care requirements.

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## How do these fire and explosion related rule requirements fit together?

### *Routine facility inspection and log of operations*

Awareness of the indications of fire and explosions is the basis of the OAC rule 3745-520-615(A)(1) requirement to conduct routine facility inspections and document observations and responses in accordance with OAC rule 3745-520-610. At this routine facility inspection level, the rules do not require any specialized monitoring equipment.

#### *Routine facility odor inspection and log of odor complaints*

OAC 3745-520-610	Records management, log of operations, and log of odor complaints
OAC 3745-520-615	Routine facility inspections (indications of fire or explosion)

### *Fire and explosion investigation and response*

Timely investigation and response are critical in addressing a facility fire or explosion. Upon an indication of fire or explosion, OAC rule 3745-520-670(B) establishes the owner or operator's requirements to investigate. Confirmation of a fire or explosion requires the owner or operator respond in accordance with OAC rule 3745-520-670(C) including implementation of the fire and explosion contingency plan. The fire and explosion contingency plan is part of the facility's general plan of facility operations (GPFO) contained in the approved license application. The contents of the fire and explosion contingency plan are found in OAC rule 3745-520-470. The fire and explosion contingency plan includes notification of the fire department and appropriate emergency response authorities and an evaluation of how the facility personnel may respond to a fire or explosion.

#### *Fire and explosion investigation and response*

OAC 3745-520-670(B)	Investigation of fire or explosion
OAC 3745-520-670(C)	Response to fire or explosion (including implementation of the fire and explosion contingency plan)
OAC 3745-520-670(D)	Continued compliance with a fire and explosion contingency plan

### *New C&DD facilities with gas management system*

If the new C&DD facility has a gas management system, OAC rule 3745-520-675 contains specific monitoring requirements to determine whether any gas management system is being properly operated, monitored to detect fire, and required responses based on monitoring results. OAC rule 3745-520-200 identifies when a gas management system is required. OAC rule 3745-520-665 contains the operational requirements applicable to any gas management system.

#### *New C&DD facilities with gas management system*

OAC 3745-520-200	Engineered components and systems of engineered components (When a gas management system is required)
OAC 3745-520-665	Gas management system operation
OAC 3745-520-675	Monitoring to determine whether a gas management system is being properly operated and to detect fire; responses required based on monitoring results