



OKLAHOMA

Uniform Building Code Commission Staff Comment Form - [BEBF 6](#)

BEBF Technical Committee

Review of the 2021 Editions of the International Building Code® (IBC®), International Existing Building Code® (IEBC®), International Fire Code®

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Contact Information:

Name: OUBCC Staff

Date 04/27/23

Email: Kathy.Hehnlly@oubcc.ok.gov

Phone: 405-521-6501

Code Change Information

Originating Committee: BEBF 2018

Code Modified: 2018 IBC

Original Comment Form Number: CCF 139

Rule Number: 748:20-2-9 (4)

Which area of the code (Section, Table, Figure) was revised?

IBC Table 414.5.1

Page Number: IBC 4-31

Previous Change

Table 414.5.1 Explosion Control Requirements. See table on next page. The change that was made is highlighted on the table.

Historical information:

The change was made by the 2018 BEBF committee when they brought in the 2021 modifications to the IBC related to Energy Storage Systems. This change exists in the 2021 language and staff recommend is to vote to delete the modification from the agency rules and allow the code to revert to the published text.

**[F] TABLE 414.5.1
EXPLOSION CONTROL REQUIREMENTS ^{a,h}**

MATERIAL	CLASS	Barricade construction (Explosion Control Method)	Explosion (deflagration) venting or explosion (deflagration) prevention systems ^{b'} (Explosion Control Method)
HAZARD CATEGORY			
Combustible dusts ^c	-	Not Required	Required
Cryogenic flammables	-	Not Required	Required
Explosives	Division 1.1	Required	Not Required
Explosives	Division 1.2	Required	Not Required
Explosives	Division 1.3	Not Required	Required
Explosives	Division 1.4	Not Required	Required
Explosives	Division 1.5	Required	Not Required
Explosives	Division 1.6	Required	Not Required
Flammable gas	Gaseous	Not Required	Required
Flammable gas	Liquefied	Not Required	Required
Flammable liquid	IA ^d	Not Required	Required
Flammable liquid	IB ^e	Not Required	Required
Organic peroxides	U	Required	Not Required
Organic peroxides	I	Required	Not Required
Oxidizer liquids and solids	4	Required	Not Required
Pyrophoric gas	-	Not Required	Required
Unstable (reactive)	4	Required	Not Required
Unstable (reactive)	3 Detonable	Required	Not Required
Unstable (reactive)	3 Nondetonable	Not Required	Required
Water-reactive liquids and solids	3	Not Required	Required
	2 ^g	Not Required	Required
SPECIAL USES			
Acetylene generator rooms	-	Not Required	Required
Electrochemical energy storage systems ⁱ	-	Not Required	Required
Grain processing	-	Not Required	Required
Liquefied petroleum gas-distribution facilities	-	Not Required	Required
Where explosion hazards exist ^f	Detonation	Required	Not Required
Where explosion hazards exist ^f	Deflagration	Not Required	Required

a. See Section 414.1.3.

b. See the *International Fire Code*.

c. As generated during manufacturing or processing.

d. Storage or use.

e. In open use or dispensing.

f. Rooms containing dispensing and use of hazardous materials where an explosive environment can occur because of the characteristics or nature of the hazardous materials or as a result of the dispensing or use process.

g. A method of explosion control shall be provided where Class 2 water-reactive materials can form potentially explosive mixtures.

h. Explosion venting is not required for Group H-5 fabrication areas complying with Section 415.11.1 and the *International Fire Code*.

i. Where explosion control is required in Section 1206.6 of the *International Fire Code*.