Owner / Applicant Information

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Project Information

DC BLOX IND1-A
305 FINTAIL DR

INDIANAPOLIS OK 46219

County MARION

Project Type New [ ] Addition [ ] Alteration [ ] Existing [ ] Change of Occupancy [ ]

Project Status [F] F=Filed U or Null=Unfiled

IDHS Issued Correction order? [No] Has Violation been Issued? [No]

Violation Issued by: NA

Local Building Official

Phone: 3173278700 Email: planreview.Class1@indy.gov

Local Fire Official

Phone: 3173278700 Email: David.carpenter@indy.gov

Variance Details

Code Name:

2014 IFC Section 601.1

Conditions: Lithium Ion Batteries for stationary energy storage systems.

DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE ARE PROTECTED:

1=Non-compliance with the rule will not be adverse to the public health, safety or w

[2]

2= Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (be specific).

Facts: The currently adopted code standards do not cover Lithium Ion Batteries for stationary energy storage systems, so we are proposing to reference 2024 IFC and 2020 NFPA 855

DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE:

[ ] Imposition of the rule would result in an undue hardship (unusual difficulty) because of physical limitations of the construction site or its utility services.

[Y] Imposition of the rule would result in an undue hardship (unusual difficulty) because of major operational problems in the use of the building or structure.

[ ] Imposition of the rule would result in an undue hardship (unusual difficulty) because of excessive costs of additional or altered construction elements.

[ ] Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure

Facts: Lithium Ion batteries are the most common and current standard for use in Stationary energy storage systems. Not being allowed to use Lithium ion would cause an increase to the over all building size and require ordering non typical batteries.

Variance Details

Code Name: 2008 Indiana Building Code (675 IAC 13-2.5)

2014 IFC Section 601.1

Conditions: 2014 Indiana BLDG code which includes 2012 edition of IFC1207.1.5 does not cover lithium ion batteries for power storage, which will be used on this project. This building will be operating as a data center and the batteries are for emergency back up during the time it takes for the generators to start.

DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE ARE PROTECTED:

1=Non-compliance with the rule will not be adverse to the public health, safety or w

[1]

2= Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (be specific).

Facts: Previous code versions do not cover use for Lithium Ion batteries, and the common battery type in modern UPS's (Uninterruptable Power Supply) are Lithium Ion. The risk to the public is no greater, we just need modern codes that include Lithium Ion Batteries.

DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE:

[ ] Imposition of the rule would result in an undue hardship (unusual difficulty) because of physical limitations of the construction site or its utility services.

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[ ] Imposition of the rule would result in an undue hardship (unusual difficulty) because of excessive costs of additional or altered construction elements.

[ ] Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure

Facts: We would have to switch to a non typical and larger floor print battery technology that would likely increase the building size, and have a shorter life span so more frequent replacement and disposal of older technology batteries.