

Owner / Applicant Information

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Project Information

SIA - N1 Airlock-Oil Storage
5500 State Road 38 East

Lafayette IN 47903

County TIPPECANOE

Project Type New ☐ Addition ☒ Alteration ☐ Existing ☐ Change of Occupancy ☐

Project Status ☒ U F=Filed U or Null=Unfiled

IDHS Issued Correction order? ☒ No Has Violation been Issued? ☒ No

Violation Issued by: NA

Local Building Official

Phone: Email:

Local Fire Official

Phone: Email:

Variance Details

Code Name: 2010 Indiana Energy Conservation Code (675 IAC 19-4)

Table 5-5.5

Conditions: The engine expansion addition roof insulation will be 2 inches thick to match the existing roof in lieu of the required 4 inches for an R-19 value. The proposed design is for a insulating value of R-11. The addition is 6,100 s.f to an existing building area of approximately 3.5 million s.f.

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

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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 addition will add just 0.01% to the total roof area of the building. Based upon the existing roof insulation value providing the additional insulation would have a negligible benefit in energy savings.

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.

☐

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: The additional insulation will provide little or no energy savings within the building.

Variance Details

Code Name: Other Code (Not in the list provided)
2014 IBC 1016.2

Conditions:

Travel distance within the existing plant exceeds the 250 feet permitted by the code.

Variances have been granted for previous expansions to permit the maximum travel distance of 600 feet within the facility. This is to permit the alterations to the travel distance within the facility in small areas affected by the addition.

The building is type IIB construction and fully sprinklered.

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

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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 building is protected throughout with an automatic sprinkler system and on-site water storage facility. Horizontal exits are provided in areas throughout the building. The portion of the building with excessive travel distance is not occupied by the general public, only employees who are trained in evacuation procedures and routes.

Travel distance with in the warehouse addition will meet the 600 feet permitted by previous variances.

The oil storage is for a Class IIB liquid see attached MSDS.

DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE:

- Y

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

The addition is required in order to meet production demand. Due to the size of the existing building it is not feasible to provide additional two hour horizontal exits or exterior exits within the building throughout the existing facility.

