

Owner / Applicant Information

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Project Information

Parkview RMC Core Tower Expansion
11109 Parkview Plaza Dr

FORT WAYNE IN 46846

County ALLEN

Project Type New ☒ Y 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:

Email:

Local Fire Official

Phone:

Email:

Variance Details

Code Name: Other Code (Not in the list provided)

ASME A17.1 2007 yr 2.20.1

Conditions: 2.20.1 Suspension Means
Steel Coated Belts (Suspension Means)
Otis machine numbers 655737-740 and 659151-152 will utilize Steel Coated Belts as the suspension means.

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: 1) All aspects of the belts, terminations and monitoring system are fully compliant with the ASME A17.1-2010 edition of the code.
2) Otis will install a permanent belt monitoring device on this GEN2 elevator.

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.

☒ Y 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: Coated Steel Belts are an essential component of the Otis machine-roomless configuration of the GEN2 traction elevator. The belt allows for the use of a much smaller diameter drive sheave. The GEN2 machine-roomless system could not be reconfigured to use steel cables. Changing to an overhead traction machine would add significant costs to the elevator and building construction. The elevator cost would increase over 30%, and the building would require the construction of an overhead penthouse.

Variance Details

Code Name: Other Code (Not in the list provided)
ASME A17.1 2007 yr 2.18.4.2.5

Conditions: At car speeds of 200 FPM and 350 FPM Otis utilizes as alternate technology for providing a speed reducing switch required by ASME A17.1 section 2.18.4.2.5.

Otis is using the 3rd channel (C channel) on the main encoder to provide this input into the control algorithms. The A and B channels of the encoder are used for primary/ secondary position and speed for the control system. The $\zeta C \zeta$ channel is utilized presently as a redundant check for the A and B channels and as an independent speed methodology to provide the ETSD (2.25.4.2) function, A17 required. The ETSD input is a designated electrical protective device.

The manual reset will be provided via the same reset switch as the uncontrolled motion reset switch.

There are six (6) GEN2 elevators on this project. Otis machine numbers 655737-740 and 659151-152.

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Facts: The Gen 2 at 200 system is designed to be compliant with A17.1 ζ 2007 with exception of components such as the alternate speed reducing switch technology which has A17.7 (AECO) approval.

DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE:

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- 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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Facts: The speed reducing switch is essentially to being able to use the GEN2 machine-roomless technology. An overhead traction elevator could add an additional 50% to the overall cost of the elevator system.

Variance Details

Code Name: Other Code (Not in the list provided)
ASME A17.1 2007 yr 2.18.5.1

Conditions: Governor Rope Diameter
This GEN2 installation will utilize a 6.3 mm (1/4") diameter governor rope.
This project will consist of six (6) GEN2 elevators. Otis machine numbers 655737-740 and 659151-152.

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 6.3 mm (1/4") rope is covered under the ASME A17.1-2010/CSA B44-2010 Code. Otis has also obtained AECO approval for the component for those Jurisdictions that have not currently upgraded to the latest Code.

DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE:

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

Facts: The GEN2 underslung product has only been designed to accommodate the use of a 6.3 mm (1/4") governor rope. It would not be possible to utilize a 3/8" governor rope on this system. Switching to a different product type to accommodate the governor rope would add over 40% to the elevator cost.