



## TEXAS DEPARTMENT OF LICENSING AND REGULATION

Compliance Division/Elevator Program

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April 12, 2016

Barry Stewart  
President Central Region  
ThyssenKrupp Elevator  
2801 Network Blvd., Suite 700  
Frisco, Tx. 75034

**Re: New Technology Variance for ThyssenKrupp Twin Elevator System  
NTV 15-02**

Dear Mr. Stewart,

The Texas Department of Licensing and Regulation (the Department) is pleased to inform you that your New Technology Variance request to install *ThyssenKrupp's Twin Elevator System* is approved, subject to the conditions discussed below.

The approval is based upon the New Technology Variance Application submitted to the Department on April 21, 2015 and supporting documentation supplied in subsequent meetings. Any deviations (i.e. in manufacturing, installation, or advances in technology) from the original NTV application and supporting documentation nullifies this approval and can only be considered upon submittal of another New Technology Variance.

Approval of the New Technology Variance is based on the *ASME A17.1 - 2007* edition of the *Safety Code for Elevators and Escalators*, which is the currently adopted standard in Texas. This variance approval is granted allowing exceptions to the new installation and alteration requirements of:

- *Section 2.2.1 Pits General*
- *Section 2.2.8 Access to Underside of Car*
- *Section 2.4.1.1 & 2.4.1.2 Bottom Car Clearances*
- *Section 2.4.6 Top Car Clearance for Counterweighted Elevators*
- *Section 2.12.2.3 Operation of the Driving Machine with a Hoistway Door Unlocked or Not in the Closed Position*
- *Section 2.12.7 Hoistway Access Switches*
- *Section 2.19 Emergency Brake*
- *Section 2.22 Buffers and Bumpers*
- *Section 2.25 Terminal Stopping Devices*
- *Section 2.25.2 Normal Terminal Stopping Devices*
- *Section 2.26 Operating Devices and Control Equipment*
- *Section 8.4.10.1.2 Equipment Specifications*
- *Section 8.4.10.1.3 Elevator Operation*
- *Section 8.6 Maintenance, Repair, and Replacement*

The New Technology Variance approval is also subject to the following terms and conditions:

1. Each "Twin Elevator System" and installation must meet the requirements of ASME A17.1-2007 Section 2.1.1.4 and have pre-approval (in writing) from the local authorities having jurisdiction (AHJ) that it satisfies the applicable building code requirements.
2. Each "Twin Elevator" NEW installation must have a "blind hoistway" or floor below its lowest landing, so that it meets the requirements of ASME A17.1-2007 Section 2.27. During Fire Service Operation, the lower elevator will park in the "blind hoistway" below the lowest landing and the

upper car will respond on Phase I Fire Service. Thus converting the ThyssenKrupp Twin System to a traditional single car hoistway. For existing buildings where the Twin Elevator System replaces the existing elevator system and equipment (i.e. an alteration), ThyssenKrupp will need to obtain a "preliminary approval" from TDLR. Final approval is contingent upon the local AHJ (including the Fire Marshal) approving the Twin Elevators System Phase I and Phase II Fire Service Operation and the Department approval of the Plan Review.

3. ThyssenKrupp will be responsible for the training of any and all Licensed Inspectors on Approved Inspection Procedures, Fire Departments (in the city of installation) on Rescue Procedures and Fire Service Operation, and Maintenance Procedures on any Twin Elevator System building maintained by others.
4. A copy of the variance, variance approval letter, and plan review (including the actual date of installation or alteration) together with any approval required by local, authorities must be maintained in the Maintenance Control Program for the life of the equipment or until such time as the product meets all of the adopted standards in Texas.
5. The applicant must ensure a written report of all incidents and accidents on any equipment that has incorporated this new technology is provided to TDLR within 24 hours of occurrence.

This approval shall apply to all new installations and alterations anywhere in the State of Texas, except the City of Houston. Consideration for approval must be requested directly from the City of Houston.

This approval by the Department shall remain in effect unless revoked. A copy of this approval will be made available to all registered inspectors and elevator personnel. Inspectors shall be informed that the requirements covered by the above variance are not to be cited on any inspection reports. No waivers or delays will be required.

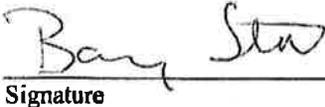
If you agree with the conditions and terms contained in this approval letter, please so indicate by signing and dating a copy of this letter and returning it to the Department. If we can be of any further assistance in this matter, please do not hesitate to contact us.

Sincerely,



Jim Murnighan  
Chief Elevator Inspector  
Business and Building Section  
Compliance Division - TDLR

Accepted by the Applicant:

  
Signature

May 12, 2016  
Date

Barry Stewart

President - Central Region

Printed Name and Title