

Reese's

PIECES

RTS specializes in providing weld inspections, mappings, and condition assessment services to the tower & pole industries



Tower Modification Inspections

As discussed last quarter, the newly released Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures, ANSI/TIA-222-I-2023, was approved on September 25th of last year to be effective January 1st, 2024.

Section 15.8 of the Standard addresses modifications to existing structures and the importance of verification of the work. 15.8.4 states that all modifications shall be inspected in accordance with the requirements specified on the design documents. Recommendations for the inspection of modifications to an existing structure are covered in Annex O of the Standard. Reports summarizing the inspection indicating conformity, non-conformances, and recommendations including photos should be provided by the inspector.

Activities requiring verification by the inspector include the following:

Pre-Construction:

- | | |
|---|------------------------------|
| 1. Fabricator Certified Weld Inspection | 3. Fabricator NDE Inspection |
| 2. Material Test Report (MTR) | 4. Field Welding |

During/Post-Construction

- | | |
|--|---|
| 1. Foundation and Geotechnical Inspections | 9. Guy Tension, Twist, and Plumb Report |
| 2. Concrete Placement and Tests | 10. Structural Bolted Connection |
| 3. Structural Backfill | 11. Grounding |
| 4. Post-Installed Anchor Rods | 12. Climbing Facilities |
| 5. Base Plate Grout | 13. Mounting System Interface |
| 6. Field Weld Inspections | 14. Non-Penetrating/Ballast Mount |
| 7. Structural Components | 15. Penetrating/Anchored Mount |
| 8. Galvanized and Painted Surfaces | |

The inspection guidelines for a site-specific structure may vary depending upon the type of structure, site-specific conditions, and the complexity of the modification. In addition, owners may also consider having a new tower build inspected after installation to ensure that they are getting what they paid for and that the quality meets the project specifications.

Planning the inspection process is very important. Discussing expectations before the project begins allows everyone to be on the same page. Communication between the project manager, modification contractor, and inspector is critical for the success of the project. Communicate early and often!



NATE Debuts Safety Sleeves Testing Video

NATE recently unveiled a video shining a spotlight on the Safety Sleeves Testing Event that the Safety Equipment Manufacturers Committee (SEMC) held at the University of Dayton Research Institute in Dayton, Ohio.

The latest video from the Climber Connection series takes a deep dive into the SEMC's protocols and procedures that were implemented to test safety sleeves. This was accomplished by replicating how they are utilized by technicians in the field at tower sites. The group tested safety sleeve performance on corroded cables, painted cables, cables with parasitic ice, improperly tensioned cables, cables at different angles and other real-world scenarios. In round one of the testing event, 110 drop tests were conducted over a period of six days. In round two of the testing, 45 drop tests were conducted over a 3-day timeframe.

"This video does a great job of breaking down the comprehensive nature and the technical steps involved in the SEMC's safety sleeve testing initiative," said committee member Joey Deuer, President of Deuer Development. "The NATE SEMC's mission is to test equipment based on how it functions in real-world, field-based environments and the key takeaways from this testing will likely be incorporated into future ANSI Z359 Fall Protection Standard revisions, resulting in a safer industry," added Deuer.

To view the video click the YouTube icon (right) or copy and paste the url: <https://www.youtube.com/watch?v=W6dG9oTpt5Y>



Reese's MINIATURES

IN



-WHO YOU GONNA CALL?

OUR STORY BEGINS IN DRUMS, PA, WHERE BRIAN REESE GETS AN URGENT CALL ABOUT A POTENTIAL TOWER FAILURE. THE SITUATION IS CRITICAL AND NEEDS IMMEDIATE ATTENTION.



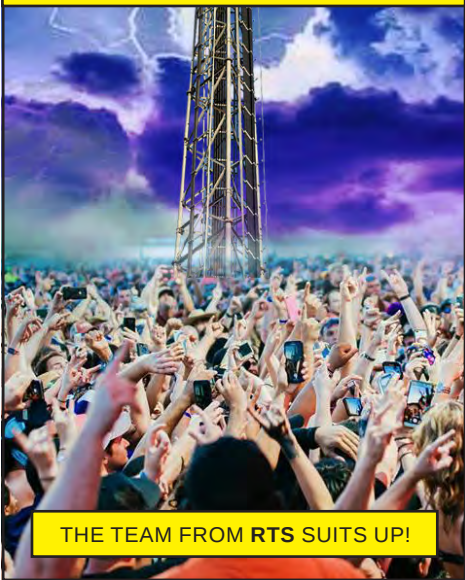
"WE'VE GOT ONE!", HE YELLS

AND WHEN THEY ARRIVE, BRIAN SAYS "THIS TOWER IS HEADED FOR A DISASTER OF BIBLICAL PROPORTIONS! FIRE AND BRIMSTONE COMING DOWN..."



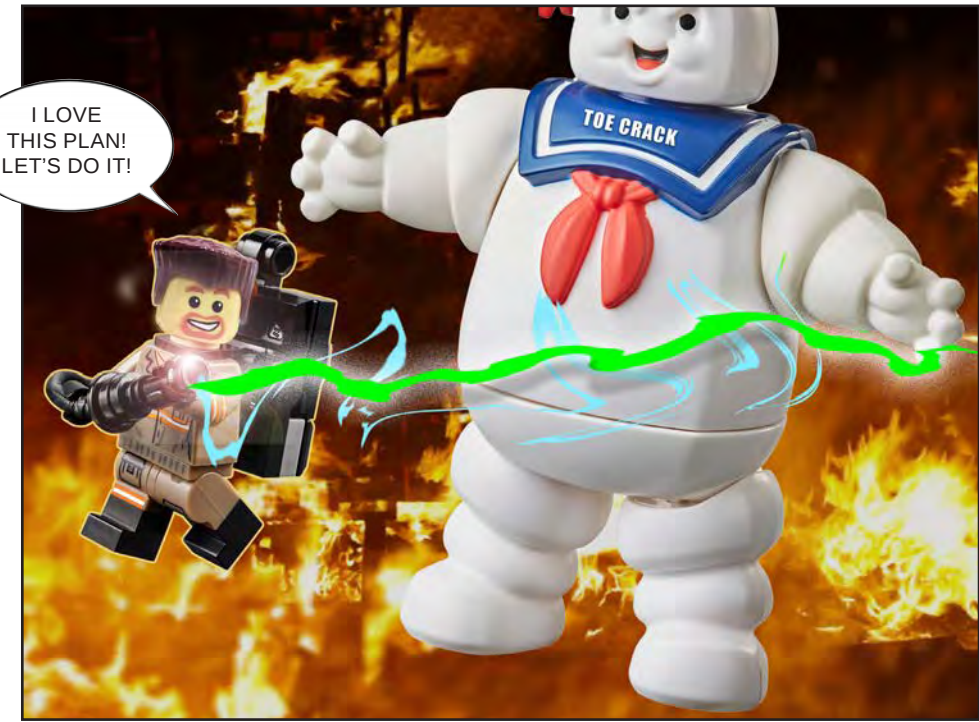
"RIVERS AND SEAS BOILING!"

CROWDS GATHER AT THE TOWER. THEY CHEER AS THE TOEBUSTERS ARRIVE WITH POLICE ESCORT AND NATIONAL GUARD TROOPS.



THE TEAM FROM RTS SITS UP!

"WE'RE GONNA HAVE TO PUT IN A LOT OF OVERTIME ON THIS ONE," SAYS BRIAN. INSTANTLY BRIAN, CODY, DEVIN & THE TOEBUSTERS LEAP INTO ACTION!



INFRASTRUCTURE IN THE U.S IS AGING FASTER THAN WE CAN MAINTAIN IT. ACCORDING TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS, THE COUNTRY NEEDS TO INVEST NEARLY THREE TRILLION DOLLARS OVER THE NEXT 10 YEARS.

ADDITIONALLY, THE INTEGRITY OF STRUCTURES IS CONSTANTLY UNDER ATTACK BY THE ELEMENTS, CORROSION, AND FATIGUE.

WHO WILL YOU CALL?

REESE TOWER SERVICES. WE BRING YEARS OF EXPERIENCE IN GROUND-BASED AND SAFE AERIAL INSPECTIONS INCLUDING CONDITION ASSESSMENTS, RETRIEVING FIELD DATA, PERFORMING WELD INSPECTIONS, AND NON-DESTRUCTIVE WELD EXAMINATIONS. WHETHER YOUR MOTIVATION IS STRUCTURAL OPTIMIZATION OR EXTENDING THE LIFE OF YOUR STRUCTURES,

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WORDS & PICTURES by Scott and Karl Dolash