

# Reese's

## PIECES

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



### Reese Tower Services Expands Unmanned Aerial Vehicles Capabilities

RTS is pleased to announce that Vice President Jeremy Klapac has received his FAA Part 107 certificate. This certificate allows Klapac to pilot UAVs commercially for RTS and expands upon its pool of existing, certified pilots.

“I’m excited to be an addition to our current UAV team and help further the development of our UAV segment” said Klapac. “The utilization of drones helps to reduce the number of times we need to put men or women in the air to perform a task that current drone technology can handle. With this we will help to drive safety through our industry while also working towards reduced lead times and disruption to the end user.”

UAV technology is currently in use by RTS to support its full portfolio of inspection services for the telecommunications industry and can be employed nationwide. The continued expansion of its UAV group provides its customer base with another option and choice that can assist in making even the most challenging inspection projects routine.

Brian Reese, President of RTS commented on this milestone, “We are proud to expand our UAV offerings to our current and potential clients to enhance safety and provide them detailed inspection results in a shorter time frame. We’ve built our reputation on the quality of our services and deliverables and this simply takes both of those items to the next level.” □



### Welding Defects – Incomplete Fusion

We continue our series on welding defects by discussing incomplete fusion. AWS D1.1 Structural Welding Code – Steel (2015), Table 6.1 – Visual Inspection Acceptance Criteria provides the visual inspection guidelines for an inspector’s weld inspection activities. Incomplete fusion is addressed in Part 2 of this table.

#### What is Incomplete Fusion?

Incomplete fusion is a weld discontinuity in which fusion did not occur between the weld metal and fusion faces or adjoining weld beads (AWS B1.10). It can be visible at the surface of the weld, at the weld/base metal interface, or be present below the surface of the weld material. When it is not visible, the inspector needs a volumetric non-destructive examination such as ultrasound to identify this defect.

#### Why Does Incomplete Fusion Occur?

Incomplete fusion is the result of improper welding techniques, improper preparation of the base metal, or improper joint design

(insufficient groove angle). Basically, there is not enough heat to adequately melt and fuse the metals.

#### What Does AWS D1.1 Table 6.1 Say?

AWS D1.1 Table 6.1, Part 2 - Weld/Base Metal Fusion states that complete fusion shall exist between adjacent layers of weld metal and between weld metal and base metal.

Incomplete fusion present at the surface between adjoining weld metal is identified visually and is typically based on the judgement of the inspector. **Sub-surface incomplete fusion in complete joint penetration (CJP) weld connections** will be identified with ultrasonic testing and will typically cause a failing test. □

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# NATE Unveils Climber Video on Weather Challenges

*Focusing on weather-related environments tower technicians may confront*

**N**ATE recently posted a new Climber Conversation video highlighting the challenging potential weather-related hazards tower technicians are confronted with while working at elevations. The video release is timely as weather patterns have changed dramatically

across the United States during recent months.

According to the organization, "The Climber Conversation volume is a companion series to the Association's popular Climber Connection campaign and is a vital component of NATE's workforce development

outreach to promote the profession and attract new workers into the industry."

The recent video posted, titled "Weather Challenges" includes expert testimonial and footage from tower technicians describing weather elements they have endured while

working at heights. To view the video, click the youtube icon to the right.



For more information on NATE, visit [www.natehome.com](http://www.natehome.com) today. □

Article based on original post by NATE

## Reese's MINIATURES

IN  
**DOWN CAME  
THE RAIN**



A BRIAN REESE PRODUCTION

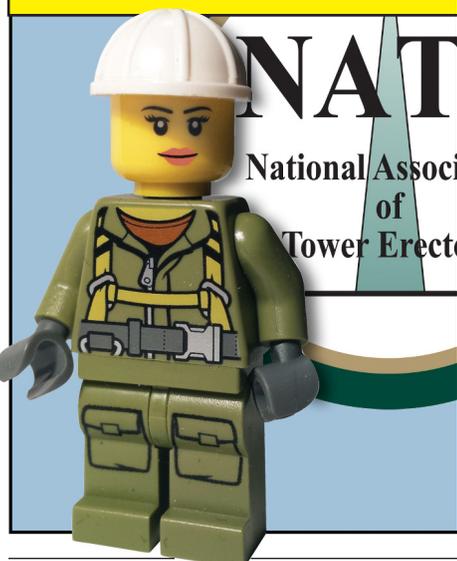
**ITSY BITSY LEGO,  
CLIMBED UP THE TOWER TALL**



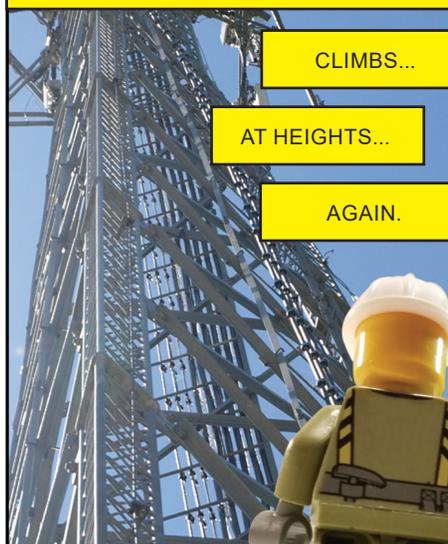
**DOWN CAME SOME RAIN  
AND STILL NO CHANCE SHE'D FALL**



**SAFELY DOES HER JOB,  
SHE'S TRAINED FOR RISK AND RAIN.**



**THE ITSY BITSY LEGO...**



**REESE TOWER SERVICES**

advocates safe working practices. For more information on safety and the expert services RTS offers, including weld inspections, mappings, and condition assessments visit us at: [reasetowerservices.com](http://reasetowerservices.com)



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