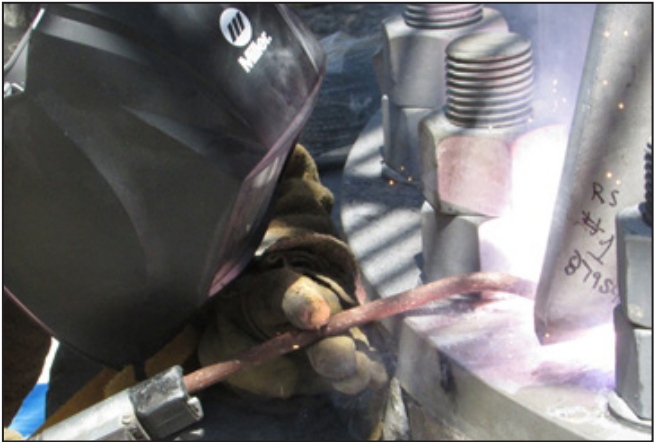


TEN YEAR ANNIVERSARY
Reese's
— P I E C E S —

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



Toe Cracking & the Impact On Your Infrastructure

The structural integrity of communication poles is critical not only for the performance of communication systems but more importantly for the safety of the public. These poles are often subjected to environmental degradation, dynamic wind loading, and vibrations over time. Lack of proper maintenance is not uncommon. As a result, thorough and periodic inspections by qualified personnel are essential. One of the most critical failure points in tubular steel poles is the upper weld toe at the base, where the pole is welded to the base plate.

Cracks originating in this area can propagate and lead to catastrophic collapse if undetected. These cracks are often small and subsurface in the early stages, making them impossible to detect through visual inspection of the weld alone.

This is where non-destructive examination (NDE) methods - particularly ultrasonic testing (UT) and magnetic particle inspection (MT) - become invaluable. UT uses high-frequency sound waves to detect internal flaws in metal, allowing inspectors to identify subsurface cracking at or near the toe of the weld. MT, on the other hand, is ideal for surface and slightly subsurface discontinuities. The complementary use of these methods ensures a more comprehensive evaluation of the pole's condition without damaging the structure.

Equally important is the role of a Certified Weld Inspector (CWI) in the inspection process. A CWI brings expertise in interpreting weld quality and spotting early signs of structural compromise through detailed

visual inspection. While visual inspection alone is not sufficient to detect all issues, it remains the first line of defense and helps guide where to apply more advanced NDE techniques. The CWI can identify telltale signs of stress, improper welding techniques, or corrosion-related deterioration that may go unnoticed by untrained personnel. Their oversight ensures that the inspection process adheres to industry standards and that any remedial actions are based on accurate, qualified assessments.

In short, a structured inspection program that integrates CWI-led visual inspection with UT and MT is essential for extending the service life of your poles, minimizing liability, and ensuring the safety of communities that rely on these critical infrastructure elements. □

Reese's MINIATURES

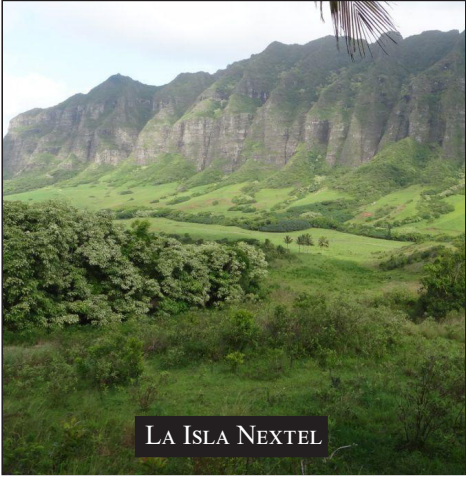
IN

JURASSIC STRESS MARK



A BRIAN REESE PRODUCTION

ON THE REMOTE PREHISTORIC ISLAND OF NEXTEL, A MAMMOTH CELL SITE HAS BEEN DISCOVERED TO POSSESS SERIOUS STRUCTURAL FLAWS. IN ORDER TO AVOID DISASTER, RTS HAS BEEN BROUGHT IN TO INVESTIGATE THE PROBLEMS AND INSURE LONG-LIFE FOR THE BEHEMOTH.



LA ISLA NEXTEL

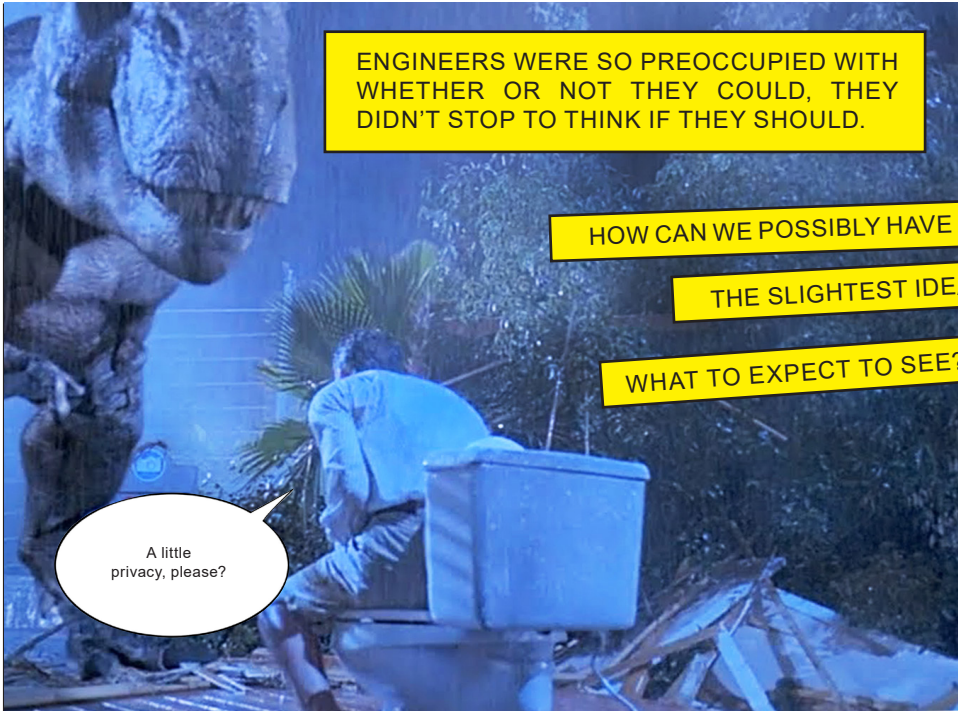
DINOSAURS AND CELL TOWERS, SEPARATED BY SO MANY YEARS... THROWN INTO THE MIX TOGETHER!




ENGINEERS WERE SO PREOCCUPIED WITH WHETHER OR NOT THEY COULD, THEY DIDN'T STOP TO THINK IF THEY SHOULD.

HOW CAN WE POSSIBLY HAVE
THE SLIGHTEST IDEA
WHAT TO EXPECT TO SEE?

A little
privacy, please?



I CAN SEE THE DANGER INHERENT IN WHAT I'M DOING HERE. I PUT MYSELF IN A PLACE I DON'T BELONG. I ALSO KNOW...IT'S A **LOST WORLD** WITHOUT RELIABLE COMMUNICATION AND THESE TOWERS NEED OUR HELP!



DON'T WORRY.
I GOT IT!

DO YOU GOT IT?

WHETHER LA ISLA NEXTEL OR WHEREVER YOUR TOWER MAY BE, AT **RTS** WE BRING A MILLION 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, **RTS WELCOMES THE OPPORTUNITY TO EARN YOUR TRUST AND BUSINESS.**

(570) 359-3293

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