



# FRAZIER RELIABILITY SOLUTIONS

## Make Drone Inspections An Integral Part Of Your Turn Around Planning

Shutdowns, Turnarounds, and Outages (STO) are usually sizable projects executed under strict time constraints with severe financial impacts for project delays.

They are also subject to significant potential scope changes that arise from found and extra work during the outage period, and require rapid decision making and approvals that cannot be avoided.

McKinsey reports that most projects are 20% over schedule and 80% over budget. Using unmanned aerial vehicles to inspect equipment before the outage can significantly reduce outage discovery costs and schedule delays

Our state of the art unmanned aerial inspection systems feature live streaming video with high definition cameras for photo and video capture with incredible detail.

Our drones give us access to difficult to reach areas without risk to personnel. We can locate defects in 3D and analyze structural details from multiple angles. We can inspect power lines, process equipment, towers, columns, flares, cooling towers, pipelines and infrastructure.

- Reduce unanticipated “discovery” issues.
- Reduce cost and schedule over runs.
- Improve turn around planning, procurement, sequencing and logistics.

During the Outage: During the outage, drones are ideal for safety audits, QA/QC, productivity tracking and optimization, and project compliance and documentation.

Contact us to find out how our drone technologies can help you have a safe and successful outage.

Also, ask us about CCTV monitoring of confined space activities during the outage.



**High Resolution Aerial Photography and Videography**  
**Live Streaming Video & Video Editing**  
**Fully Insured FAA Licensed Pilots**  
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500 North Kimball Ave.  
Suite 103C  
Southlake, TX 76092

817-416-4306  
mark@gofrazier.com



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