DPRCG 2024 CONVOCATION

Going Down the Tubes

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Cast of Characters

- **Big Bucket Minerals**: Owner and operator of terminal facility which transfers raw mining materials to and from ship to shore
- A-Plus Operators: Operated the transfer facility
- Mighty Fine Design: Structural engineer/insured
- Nuts & Bolts Contractors: General contractor that performed upgrades
- Drew Pachinko: Truck driver injured when tubes collapsed





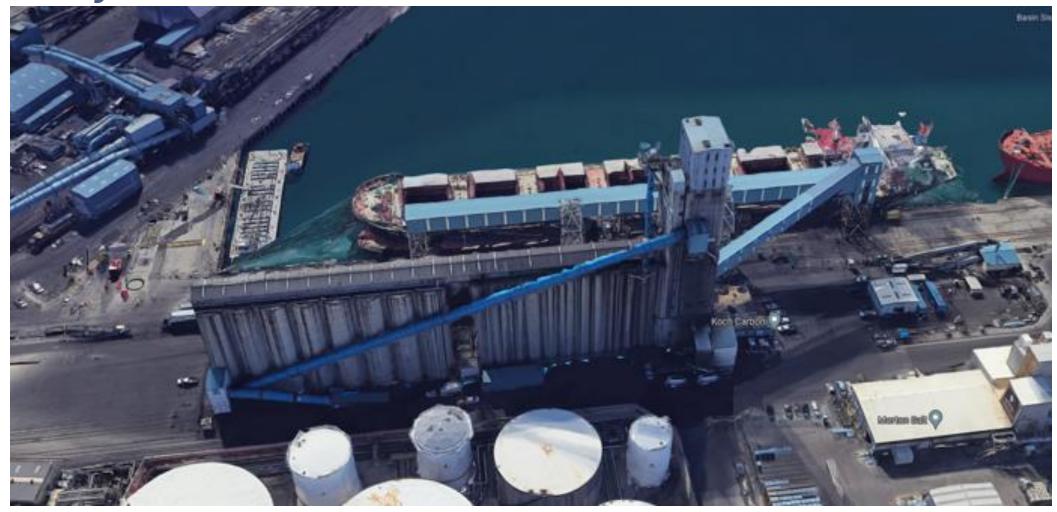
The Project

- Bulk-handling minerals terminal at a port transferring minerals to and from ship and shore
- Upgrade of two "tube galleries"
 - 10' wide tubes with conveyors inside
 - BC-1 was 100' long and rose from ground level up to 40'
 - BC-2 was 475' long and suspended from 25' up to 175'





The Project







Mighty Fine's Scope / Contract

- Structural engineer on project
- Master Service Agreement
 - Contractor shall rely on its own examination and investigation of the conditions at the site.
 - Indemnity arising out of the work performed, including negligence and breach of contract
 - Waiver of subrogation





Mighty Fine's Scope / Contract

- Insured provided proposal to replace BC-2 (higher tube)
 - BC-2 was the newer tube
 - "Determine Added Weight"
 - "Check Existing Supports and Tube"
- Later, Insured offered proposal for BC-1
 - BC-1 was older; was supposed to be replaced earlier but Owner delayed
 - No detailed scope items such as for BC-2





What (happened?)

■ BC-2 collapsed onto BC-1

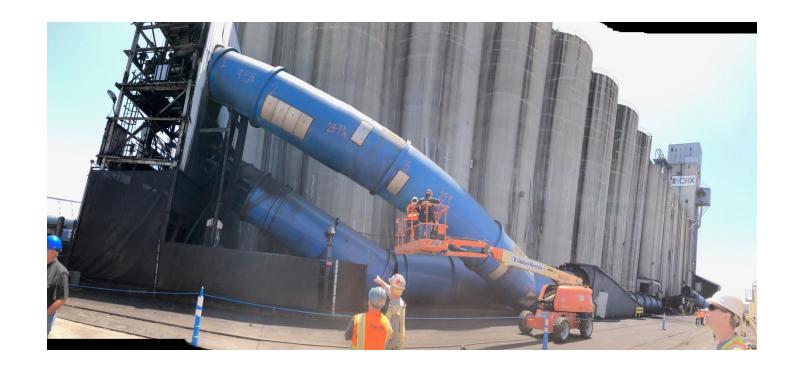






So what (happened?)

- Both tubes damaged
- No minerals could be transferred via these tubes
- One tube hit the cargo portion of a dump truck (not the cab, but the driver was injured)





Assertions

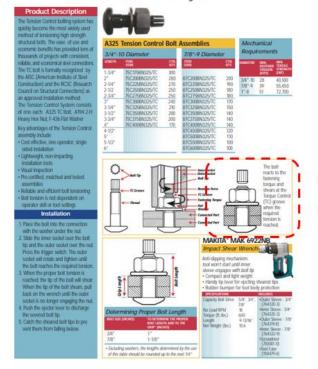
- Owner never retained an expert and simply relied on an "it's either design or construction" approach
- Due to the amount of damages, parties agreed to independently investigate
- Insured felt failure was due to improperly fastened bolts
 - Selected by GC
 - Bolt tip shears off when properly tensioned
 - Design called for dimensions of bolts, but no further details

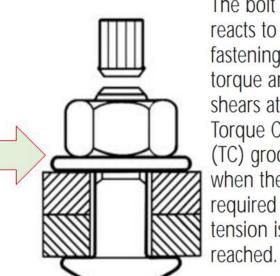




Assertions

A325 Tension Control Bolt System





The bolt reacts to the fastening torque and shears at the Torque Control (TC) groove when the tension is







Assertions

- Facility operator argued the problem was Insured's specification of 3/4" bolts instead of 1" bolts
 - This change was requested by the GC, but not documented
 - Dismissed argument that improper tension was the issue
- GC kept promising an expert report, but never provided one
- Insured's retained expert was highly qualified:
 - Disagreed that improper tensioning was the issue
 - Felt ¾" bolts were sufficient
 - BUT analyzed the project and concluded that the existing supports were insufficient!!





Damages

- Clean up and demo: \$1.35M
- Repair and replace tubes: \$9.4M
- Incremental ship loading labor: \$7.2M
- Additional Security: \$42K
- Direct Commercial Losses: \$57M
 - Realized as of mediation: \$26M
 - Up to time facility would be fully operational: \$31M







Liability

 Insured was to have determined added weight and checked existing supports in its contract

- BUT:

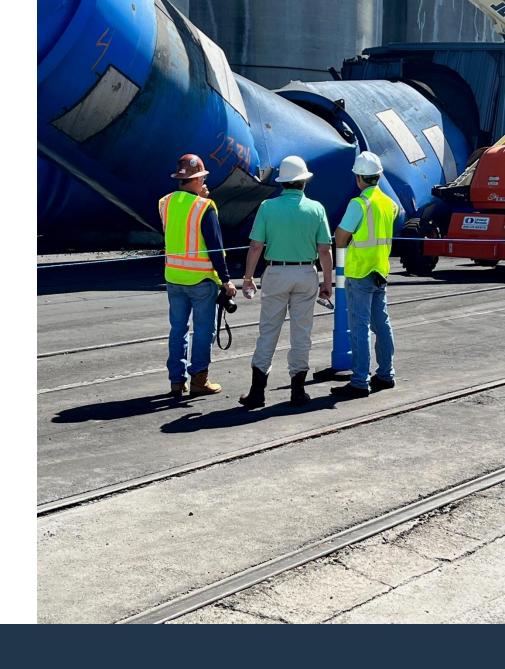
- GC sent email that it checked all supports and only found one area of concern that it would address
- Owner had hired independent engineer which inspected silos and concluded they were structurally sound
- Contractual Terms
 - Indemnity "arose from its work"





Liability

- Other experts were blaming Insured
 - Risk of at least 1% allocation
 - \$75M claim, but only \$2M policy
- Don't forget about the PI plaintiff







Lessons Learned

- Know and live up to contractual obligations, especially if they might relate to life safety issues!
- If relying on another entity for your scope, verify reliance with client, check the other party's analysis, and amend your contract.
- Don't get caught up in one analysis during review and evaluation of claim.
- Know your jurisdiction (joint and several liability) and do what you can in your contract to remain liable for only your design.
- Limitation of liability can make a real difference.





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