

**Seeing is Believing!**  
*Effective Use of  
Demonstrative Evidence in  
the Digital Age*



# Our Panel



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# Our Panel



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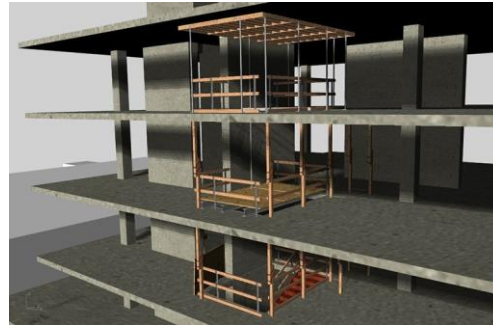
[www.moellerfirm.com](http://www.moellerfirm.com)



THE MOELLER FIRM LLC

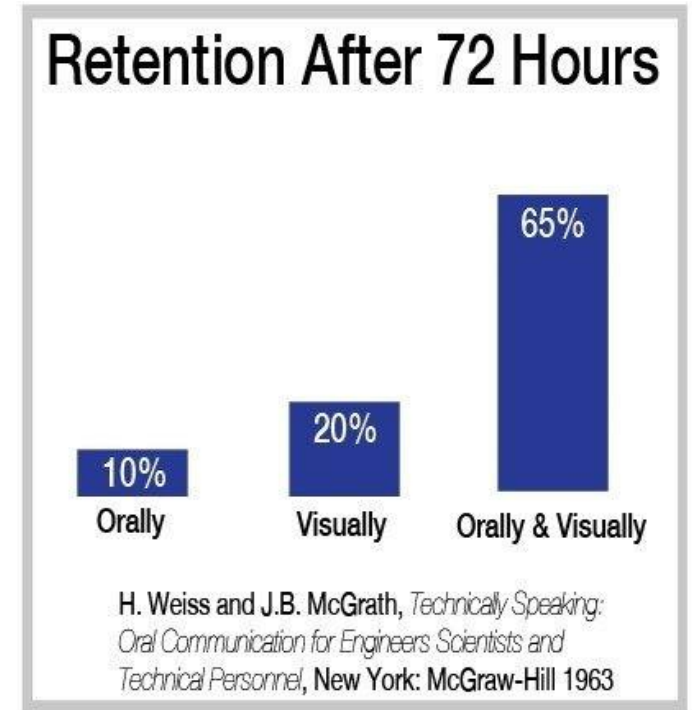
# What is Demonstrative Evidence?

- **Objects**
- **Pictures**
- **Models**
- **Animations**



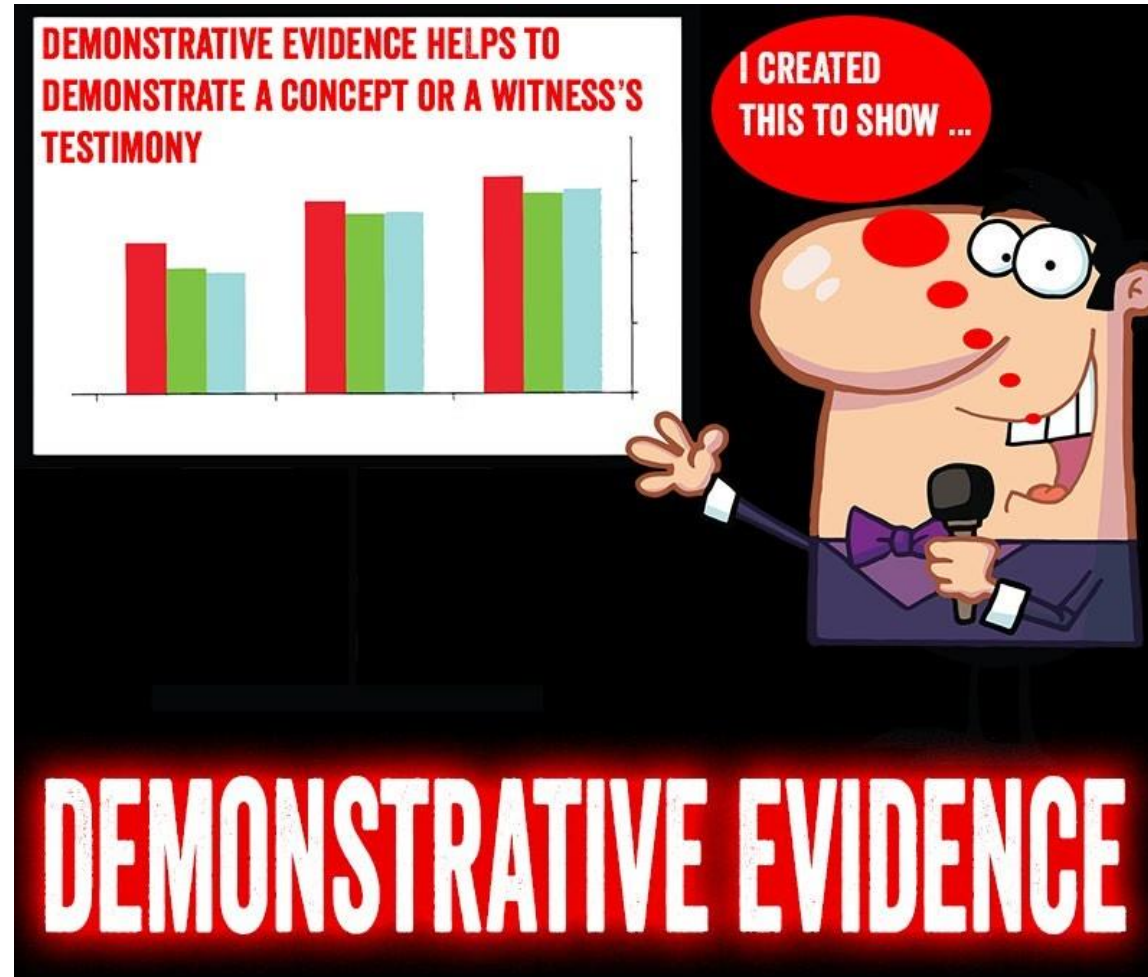
# Why Use Demonstrative Evidence?

- Retention Value
- Simplification of complex issues
- Entertainment objective
- It is expected!



- *Modern research studies show that about 85 percent of what people know is learned through visualization.*

# Purpose of Demonstrative Evidence



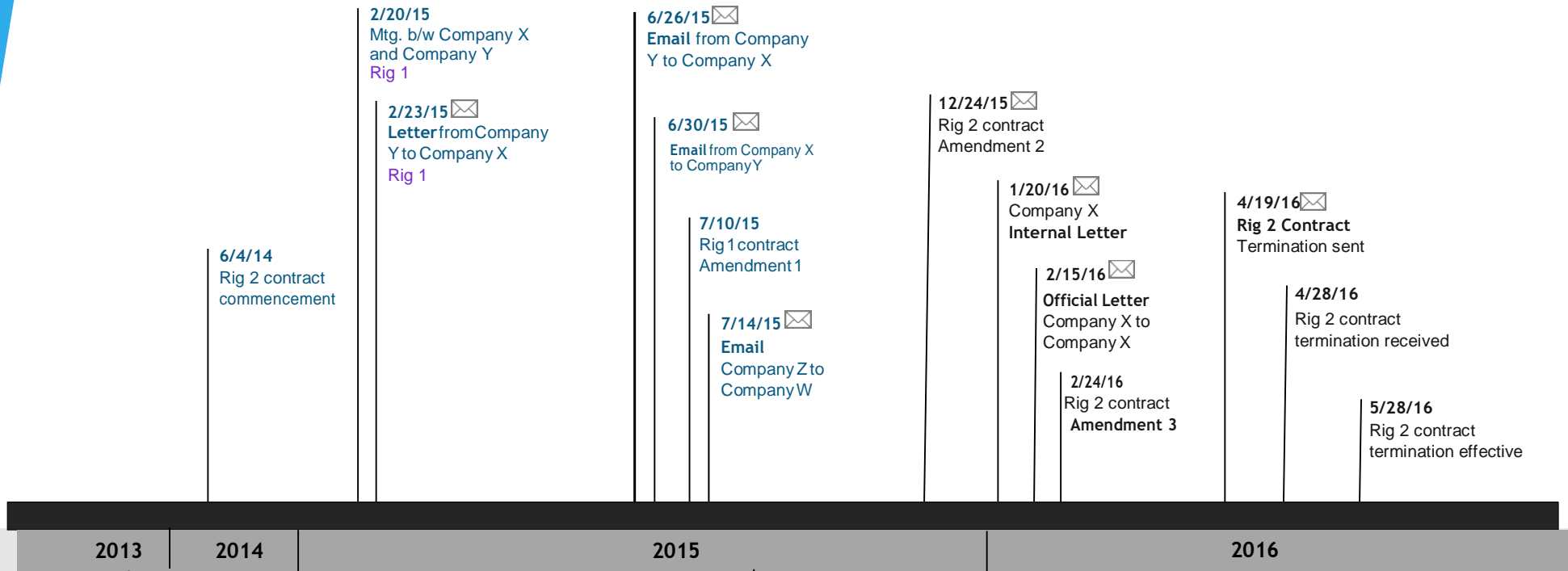


# Purpose of Demonstrative Evidence...





# **Contract Dispute**



- Rig 1
- Rig 2
- POLICY
- POLICY/Rig 1
- ALL



7/5/13  
Rig 1 contract  
commencement






4/28/15 ✉  
Rig 1 Contract  
Termination sent

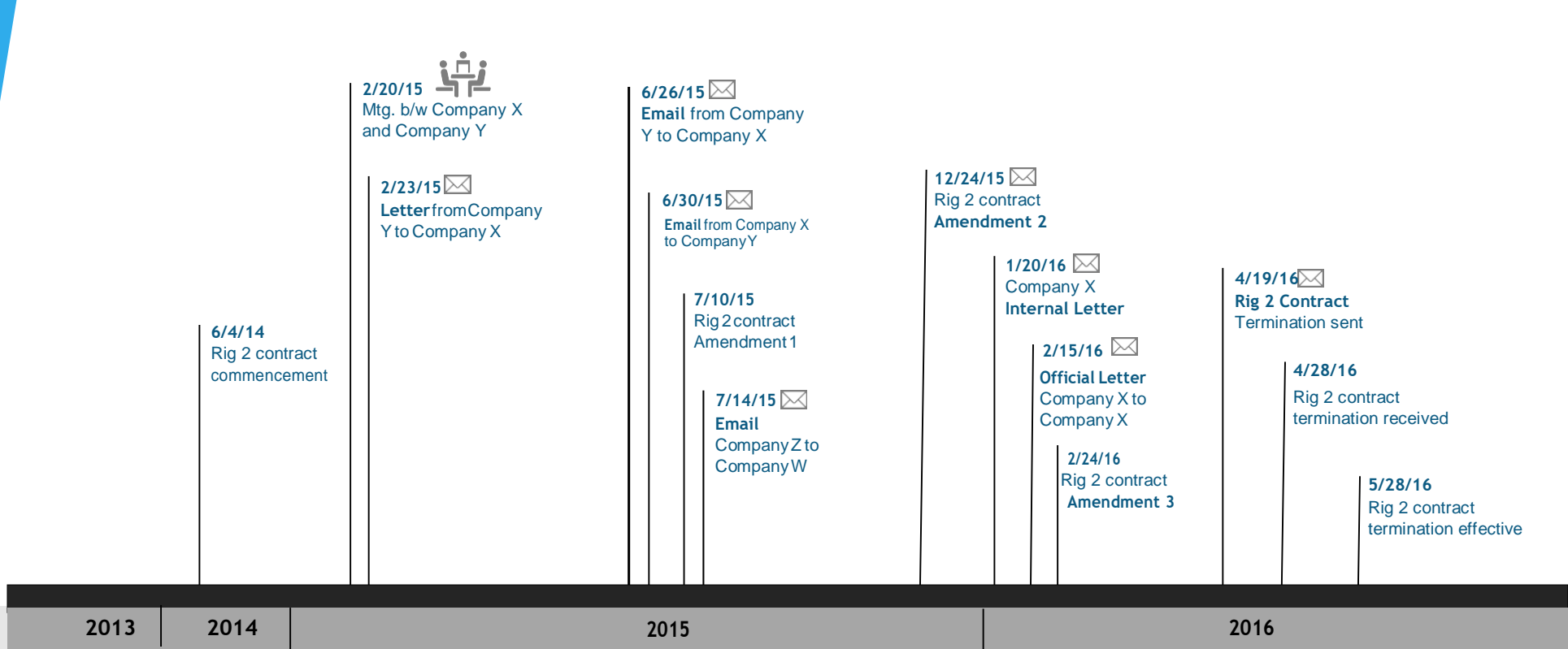
5/4/15  
Rig 1 contract  
termination received

6/3/15  
Rig 1 contract  
termination effective

2/20/15   
Mtg. b/w Company X  
and Company Y


2/23/15 ✉  
Letter from Company  
Y to Company X


-  Rig 1
-  Rig 2
-  POLICY
-  POLICY/Rig 1
-  ALL





- Rig 1
- Rig 2
- POLICY
- POLICY/Rig 1
- ALL








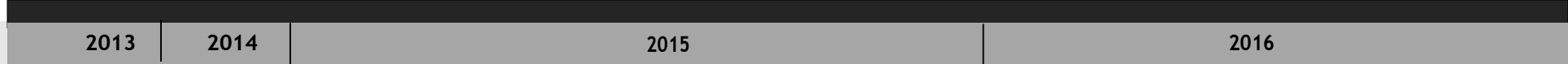
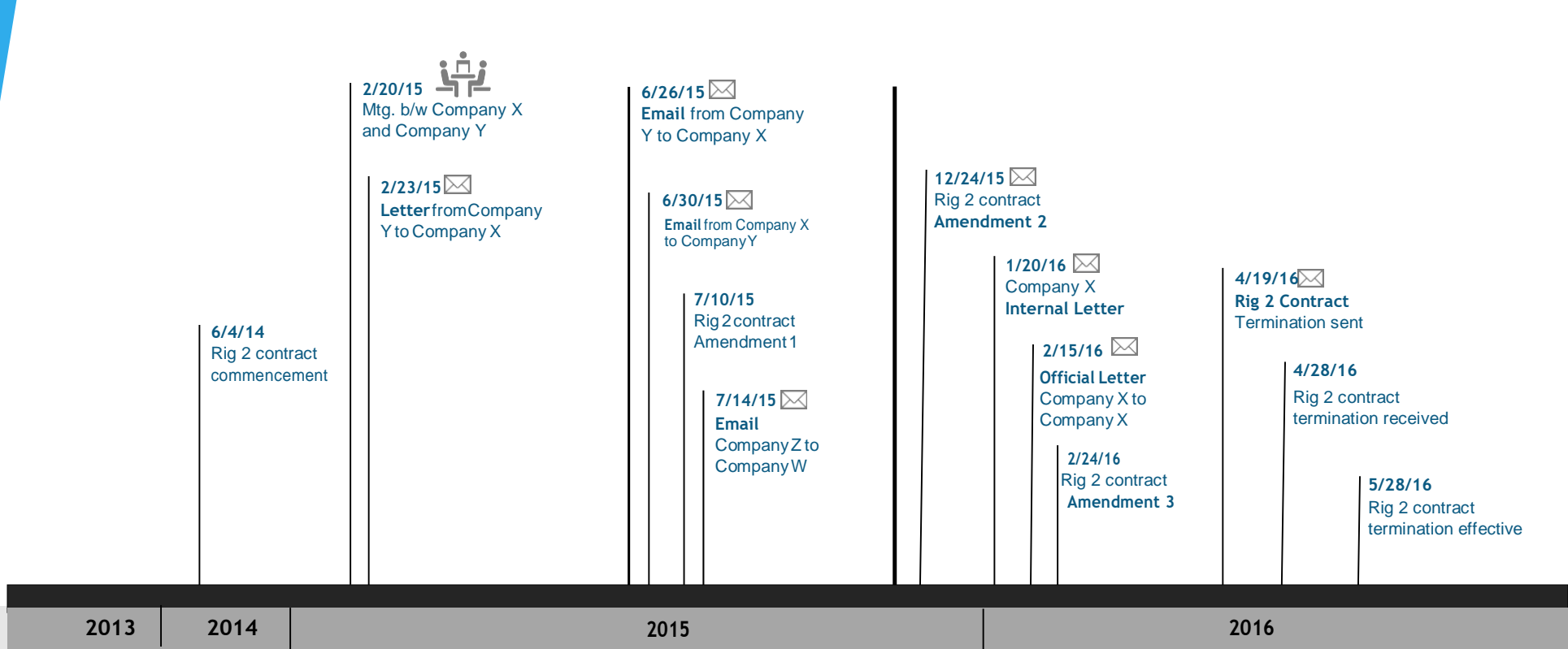
7/17/14   
Endorsement 5  
Added to Policy

8/26/15   
Email  
Smith to Gerald

10/20/15   
Endorsement 6  
Added to Policy

3/30/16   
Endorsement 7  
Request to add

-  Rig 1
-  Rig 2
-  POLICY
-  POLICY/Rig 1
-  ALL



- Rig 1
- Rig 2
- POLICY
- POLICY/Rig 1
- ALL



# **Construction Dispute**

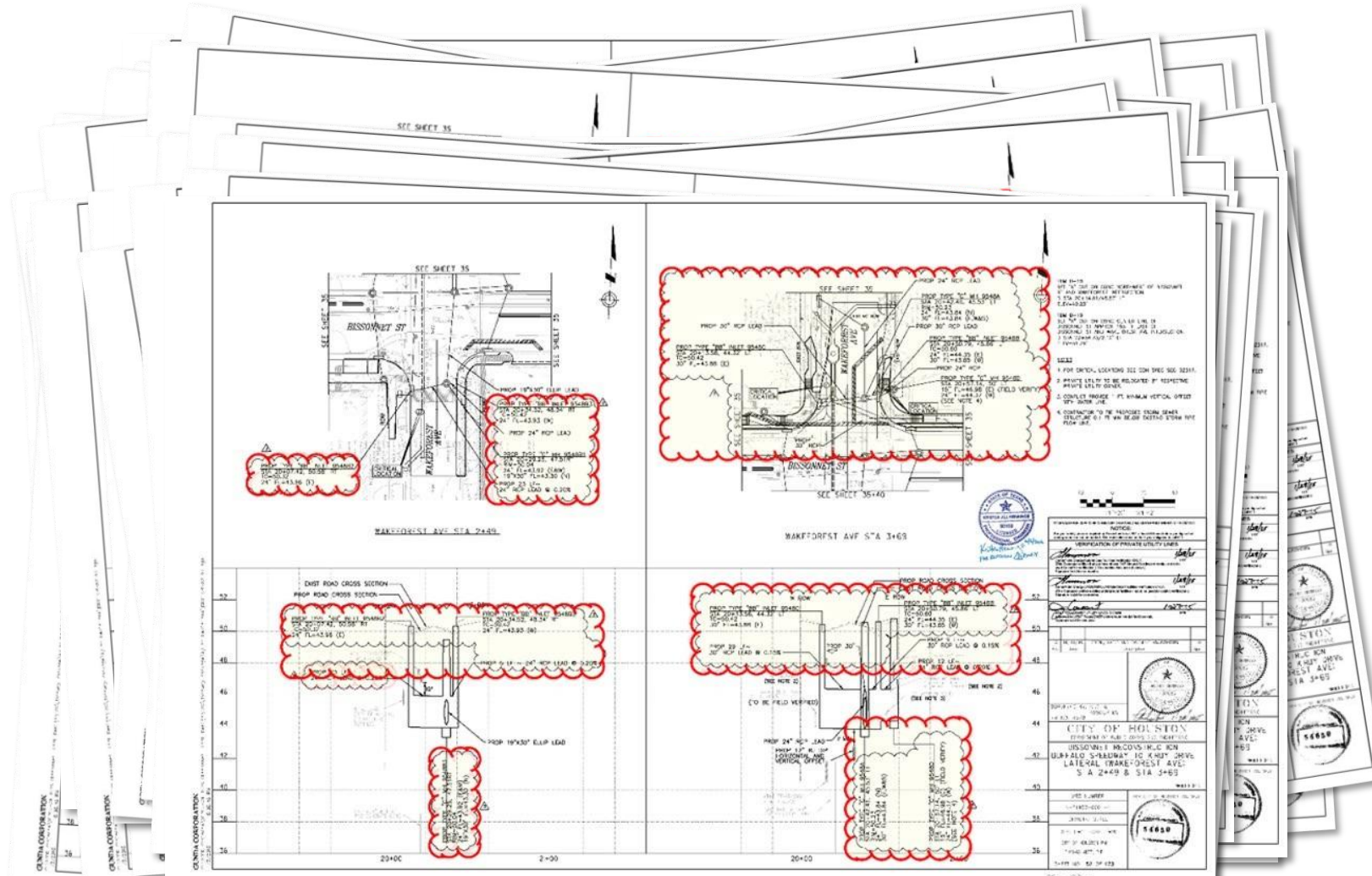


# Residence



LEE 003870

# Change Orders!



JUL 13 2016

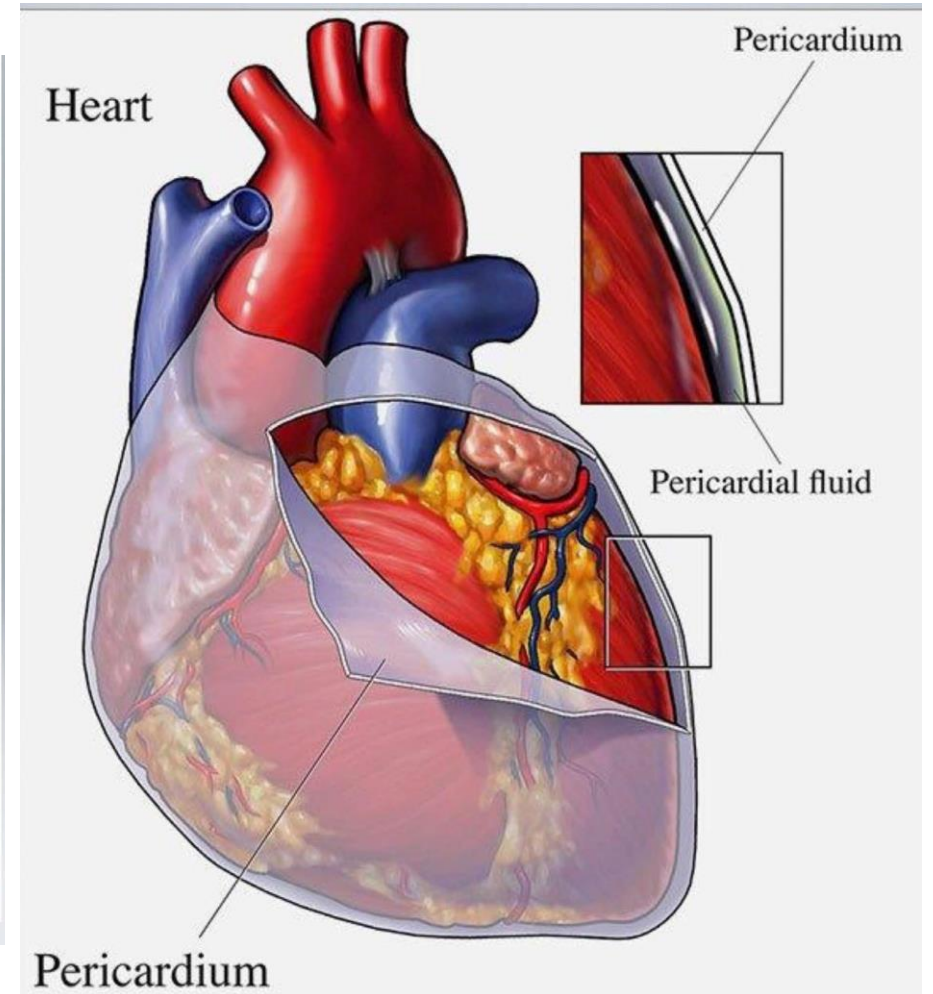
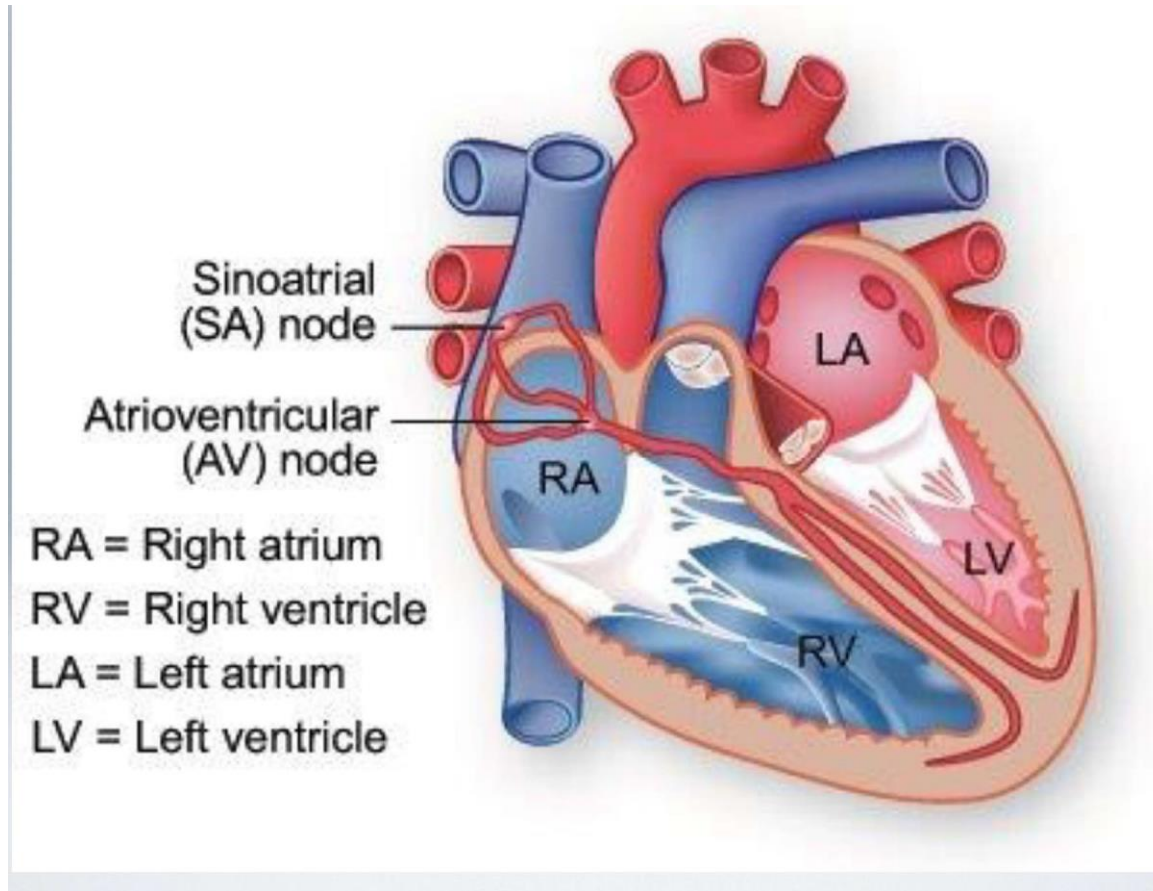
OCTOBER 19, 2016

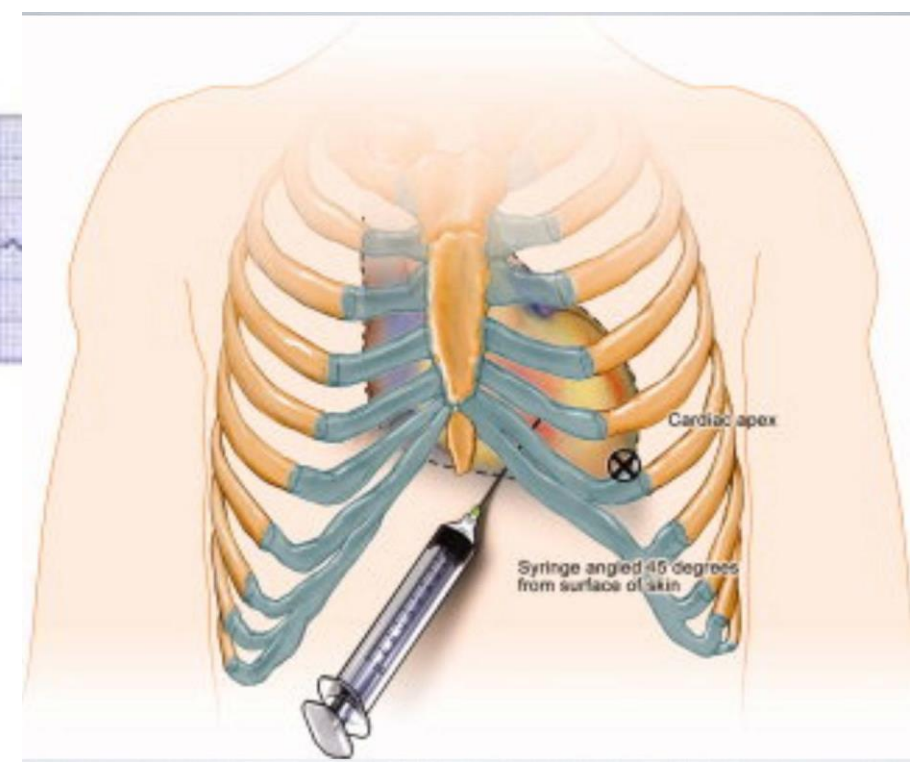
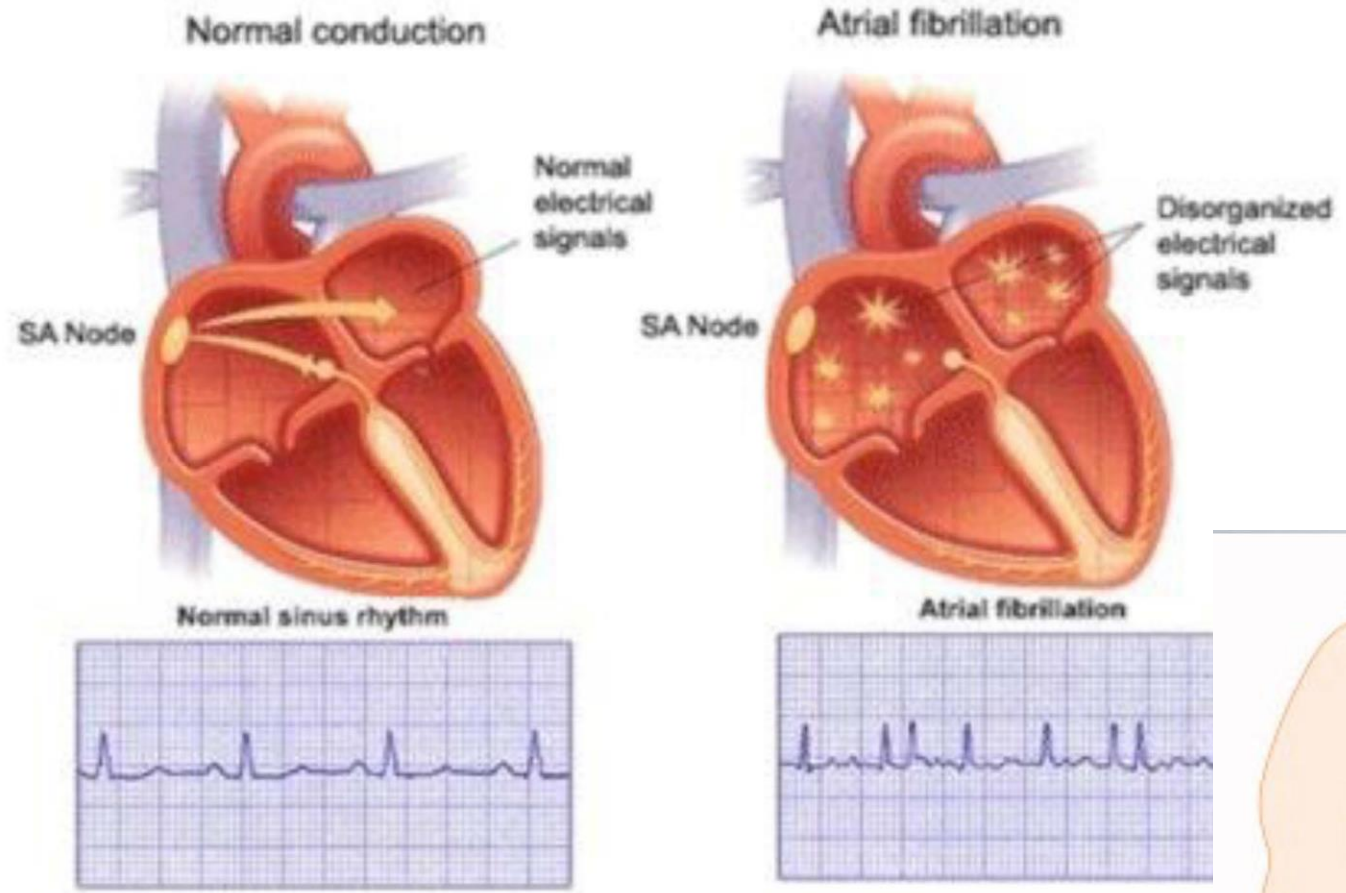


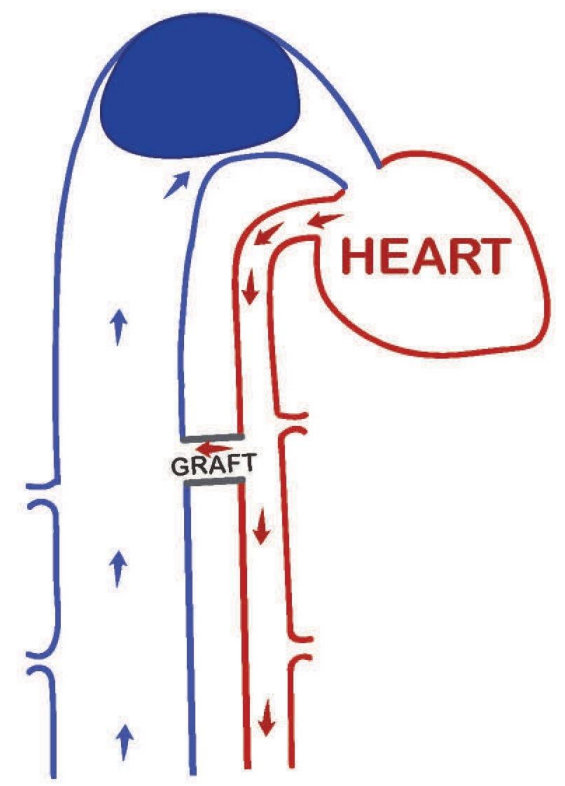
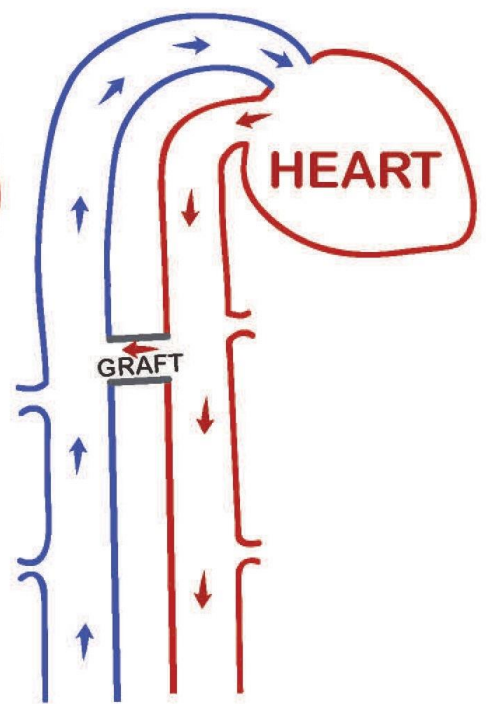
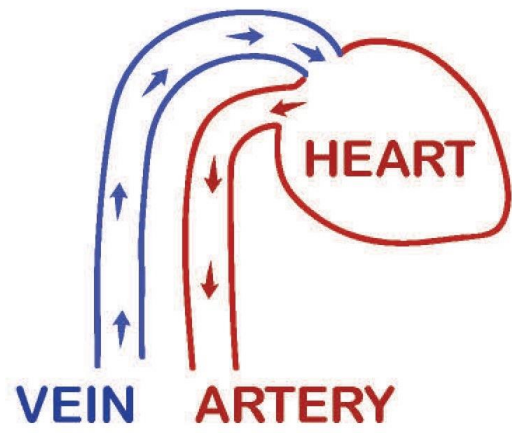


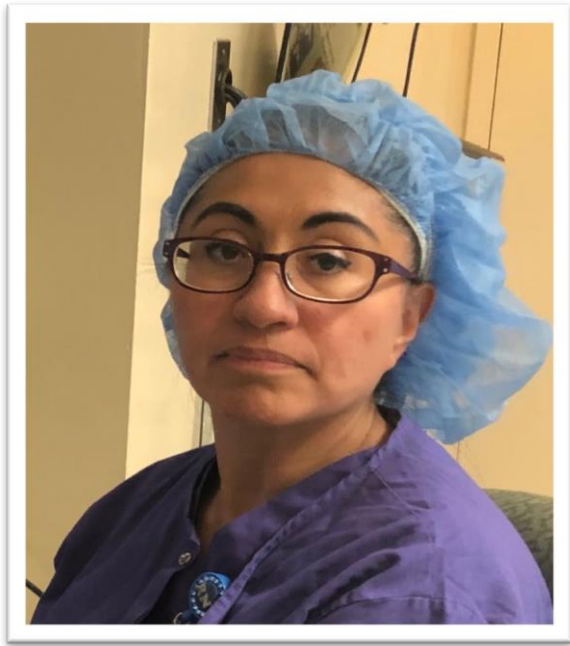
# **Medical Malpractice Case**

# Medical Illustration

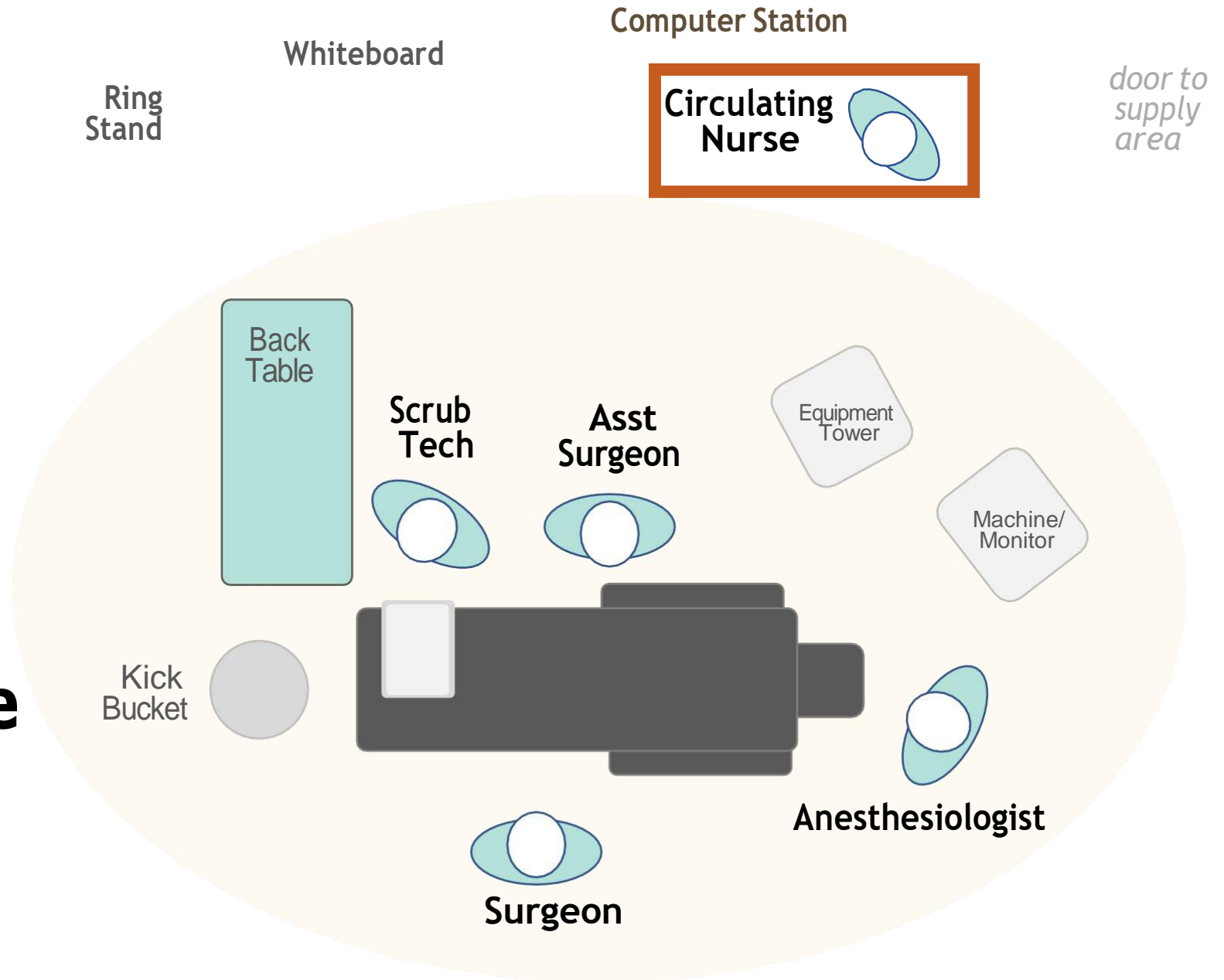






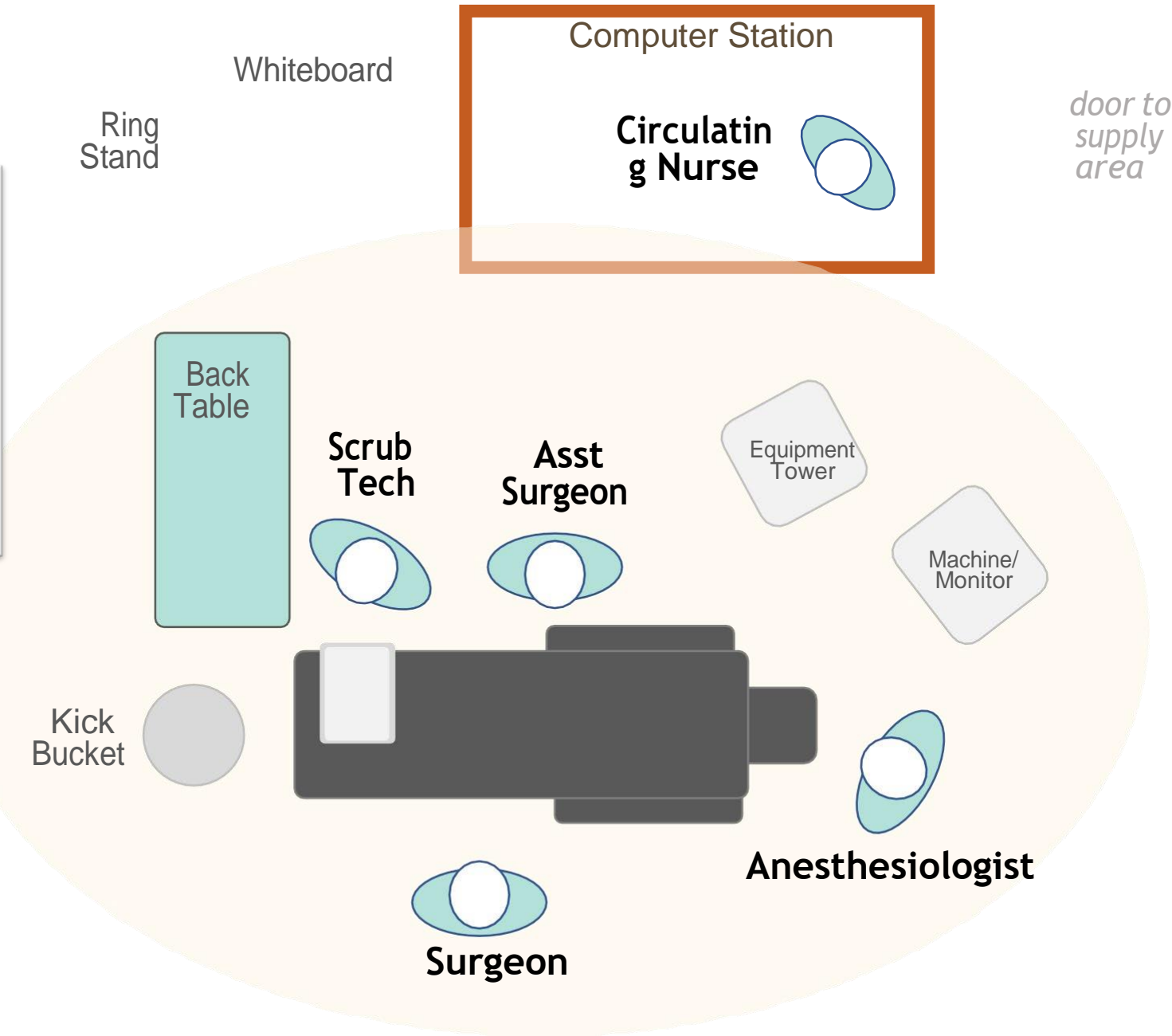


# Circulating Nurse





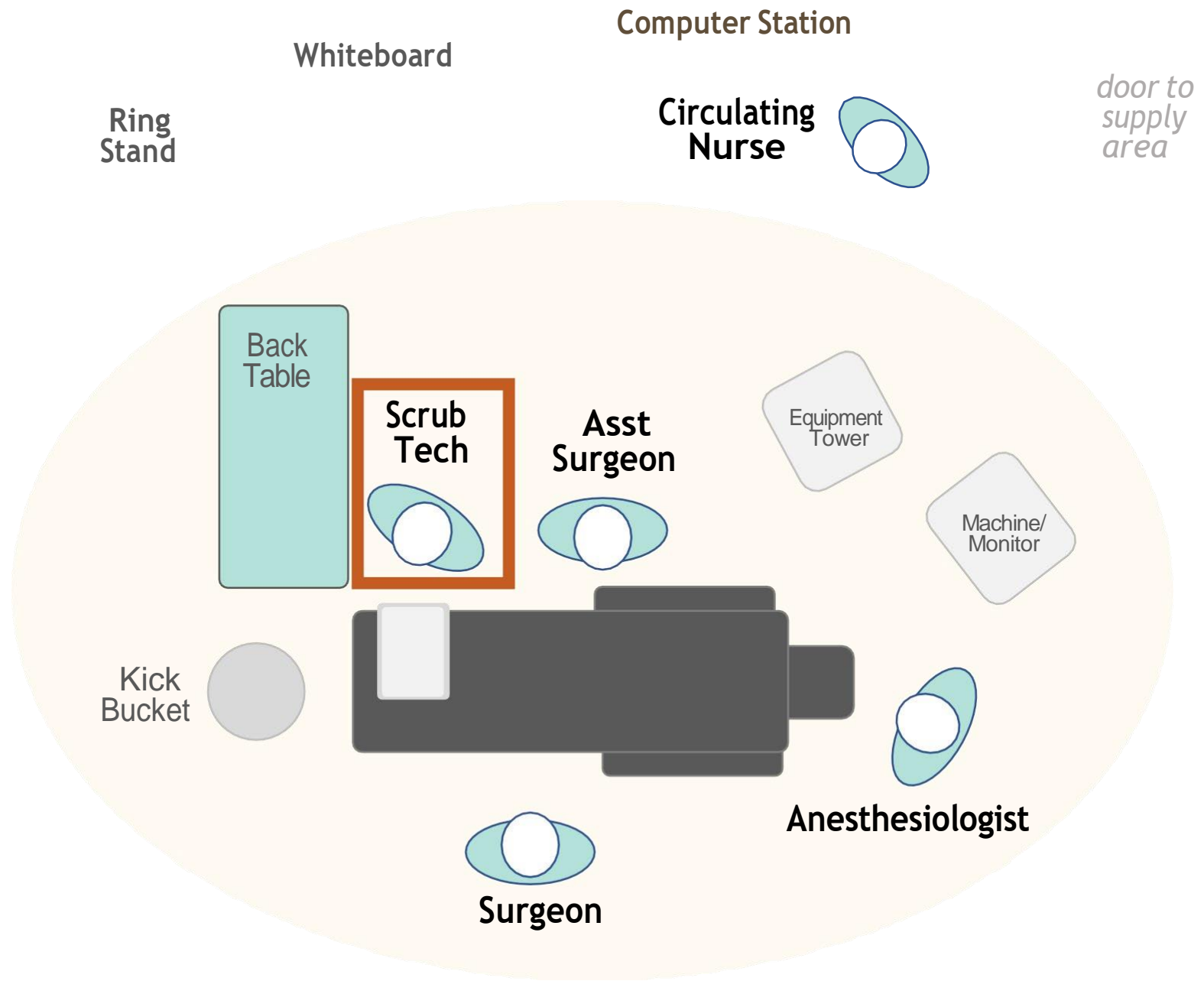
# Circulating Nurse's Computer Station





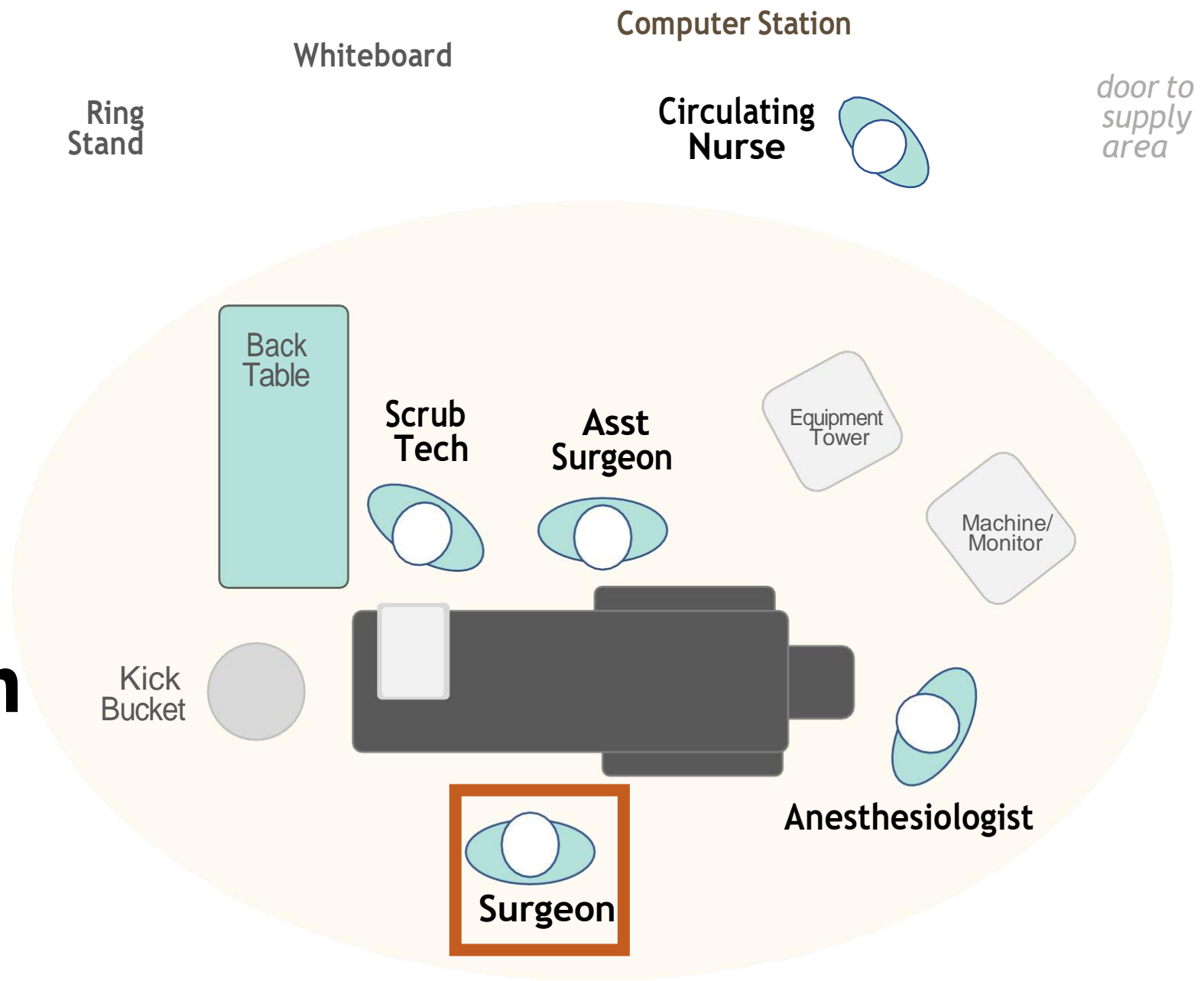


# Scrub Tech





**Chief Surgeon**





# Aviation Cases

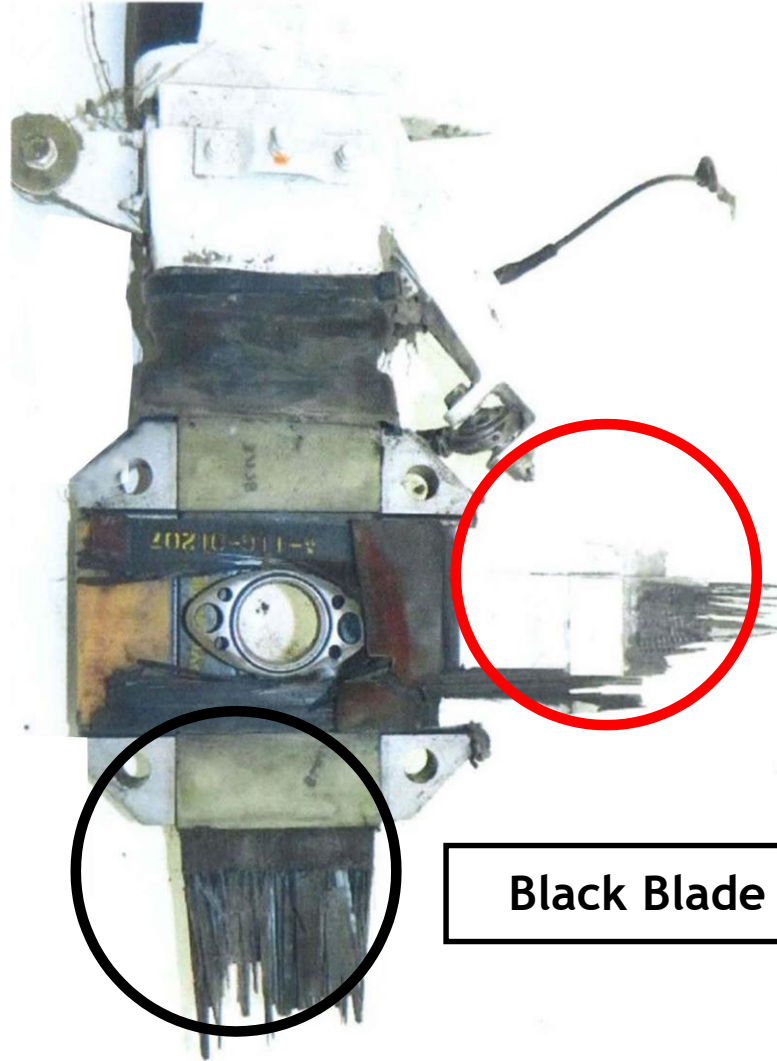
# Blade's Positions

Blue Blade

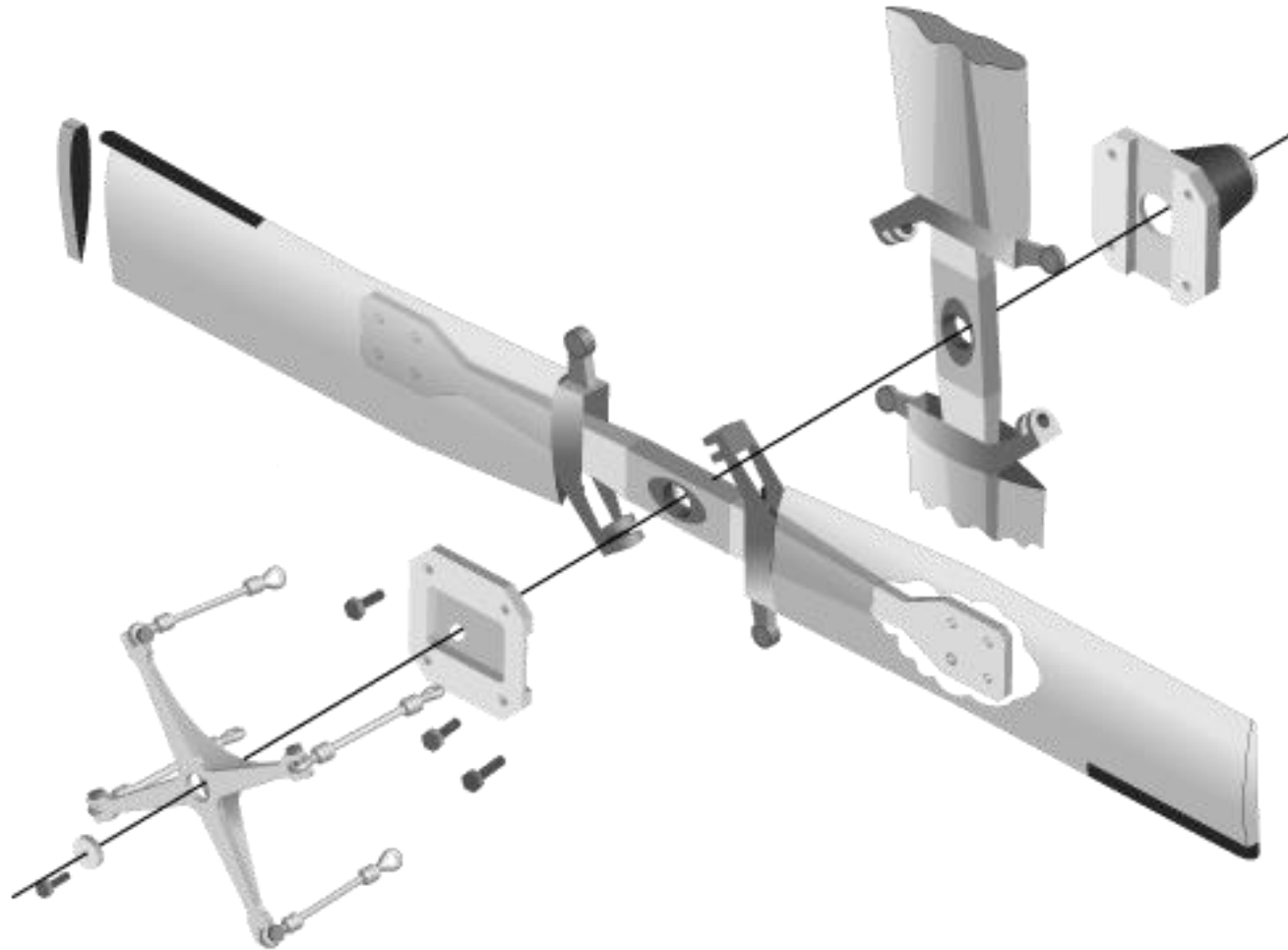
Yellow Blade

Red Blade

Black Blade



# Blade Loads Normal Orientation

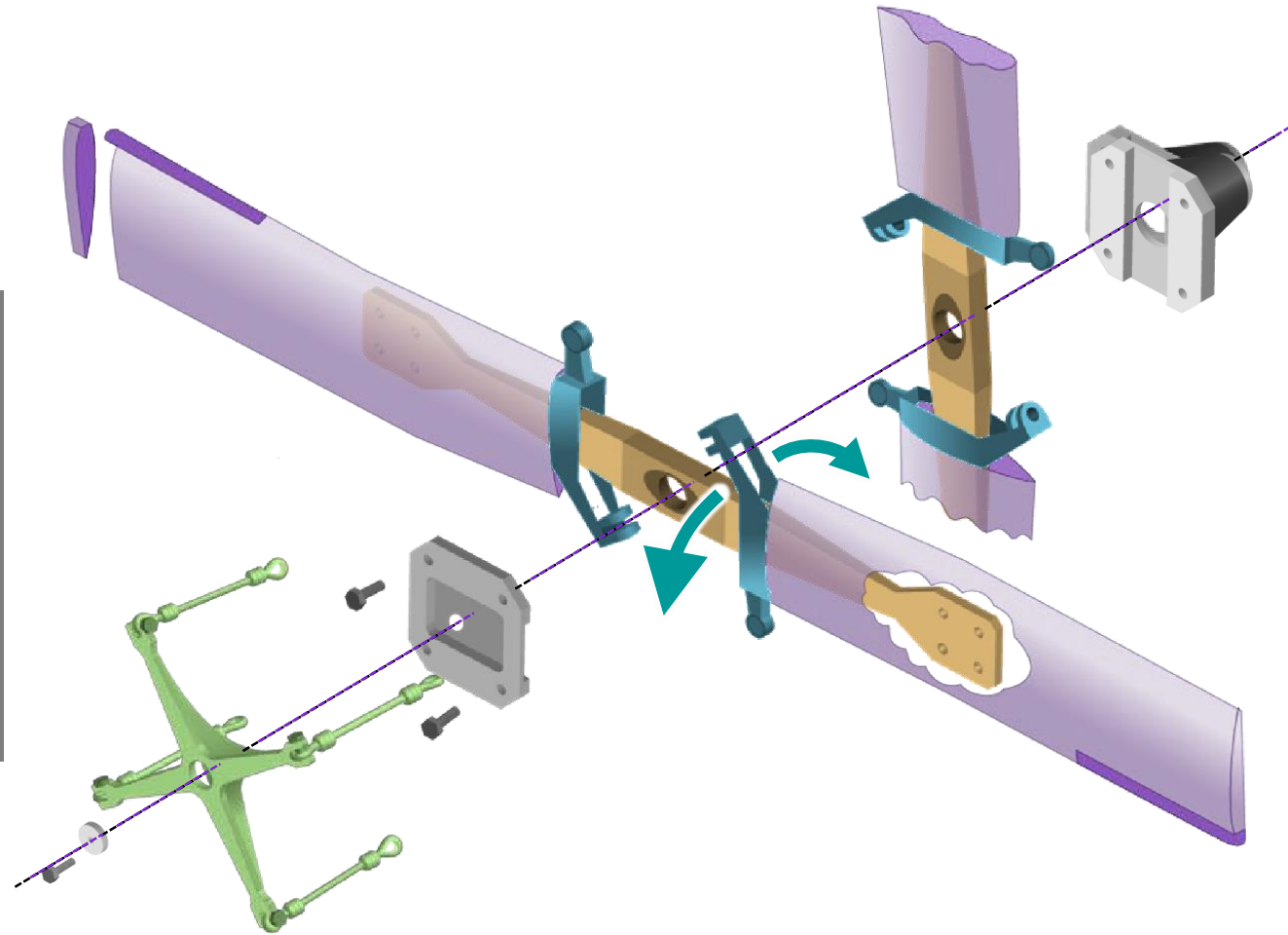


# Blade Loads Normal Orientation

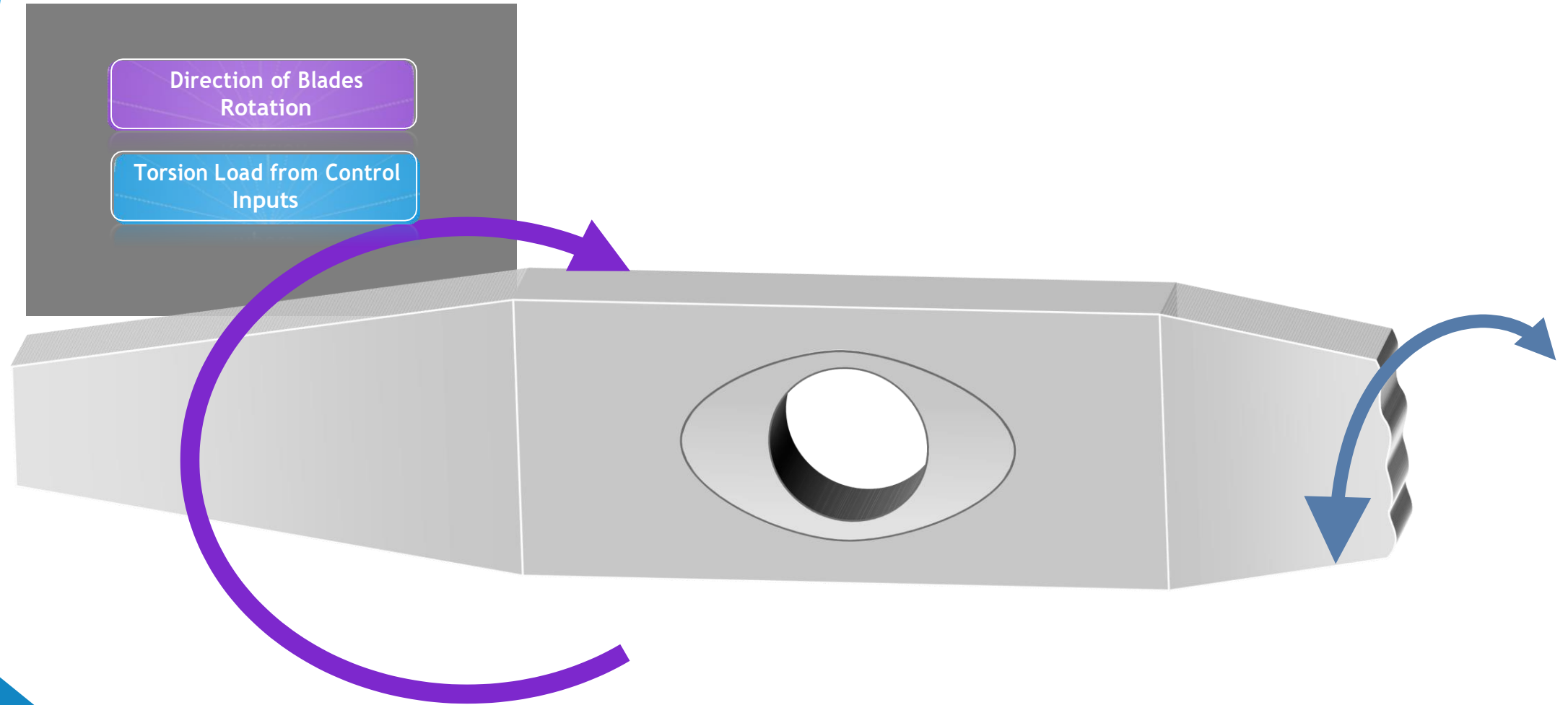
Pitch Beam

Composite Spars

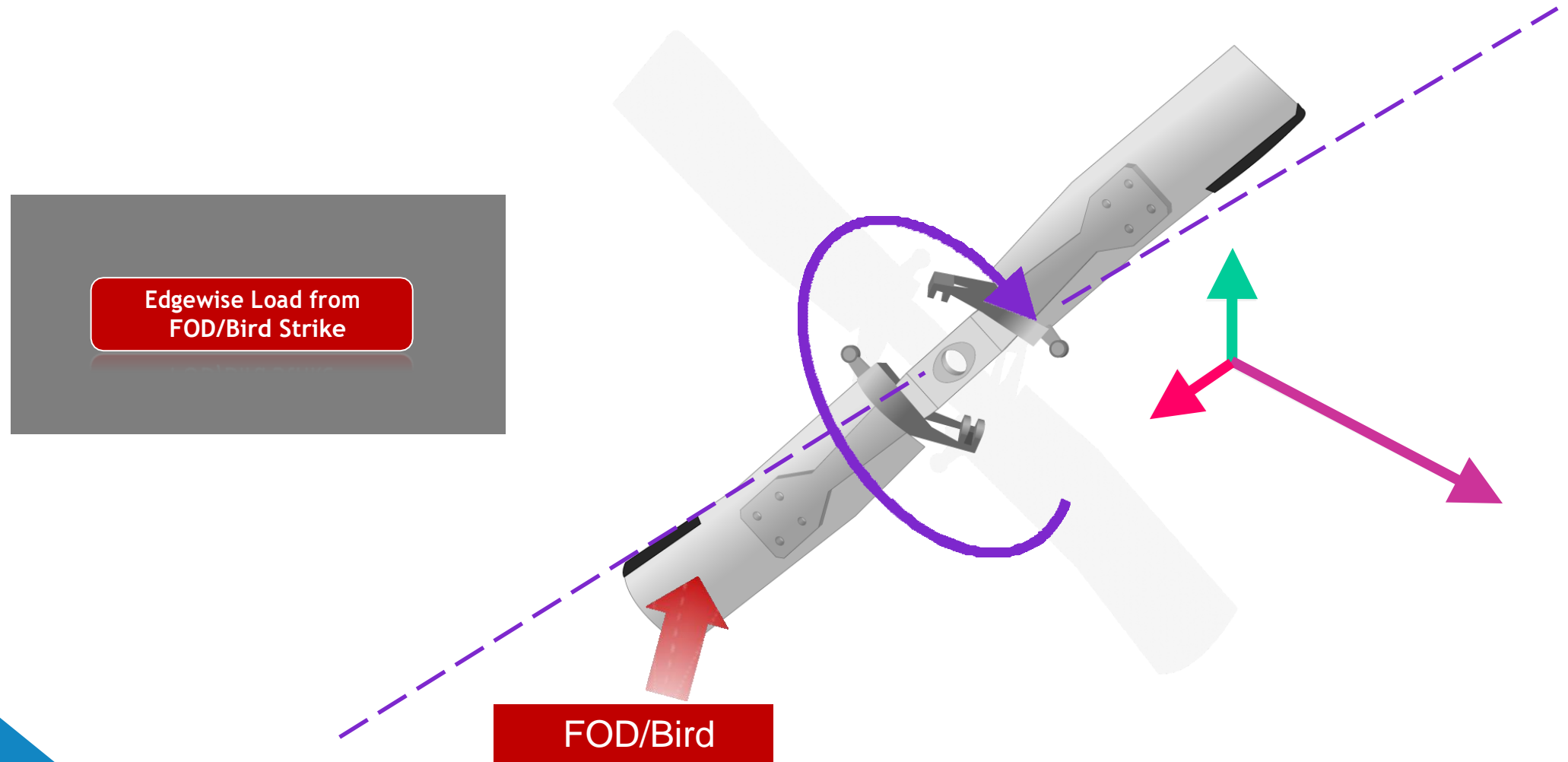
Pitch Horns



# Spar Loads Normal Orientation



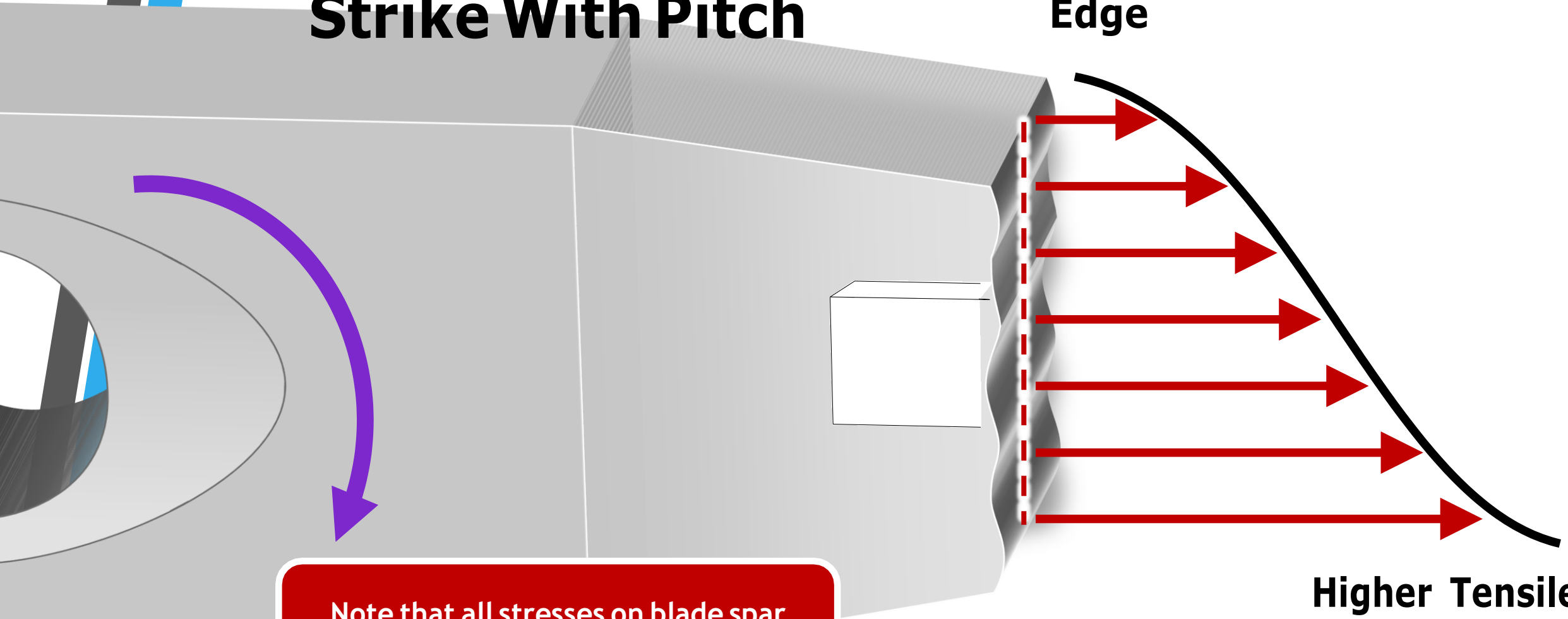
# Edgewise Load from FOD/Bird Strike





# Spar Stresses FOD/Bird Strike With Pitch

Lower Tensile Stress on Trailing Edge



Higher Tensile Stress on Leading Edge

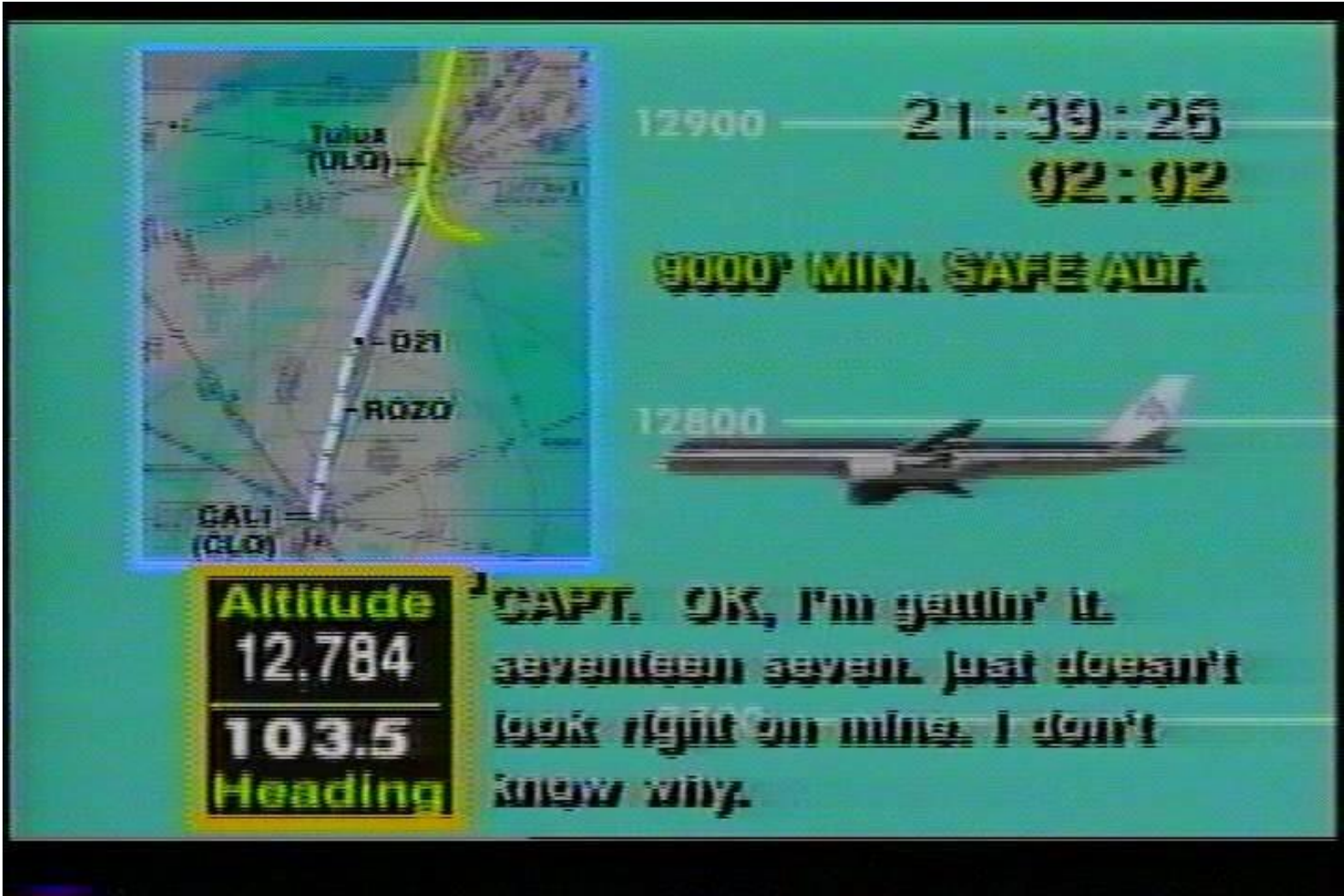
Note that all stresses on blade spar remain tensile with FOD/bird strike

# Asiana Flight 214



# American Airlines Flight 965

Cali Colombia



# US Air/Air Midwest Express Flt 5481

Beechcraft 1900D



NTSB

2

Feet

124

Knots

08:46:56



HOT-2: "V-one V-R."

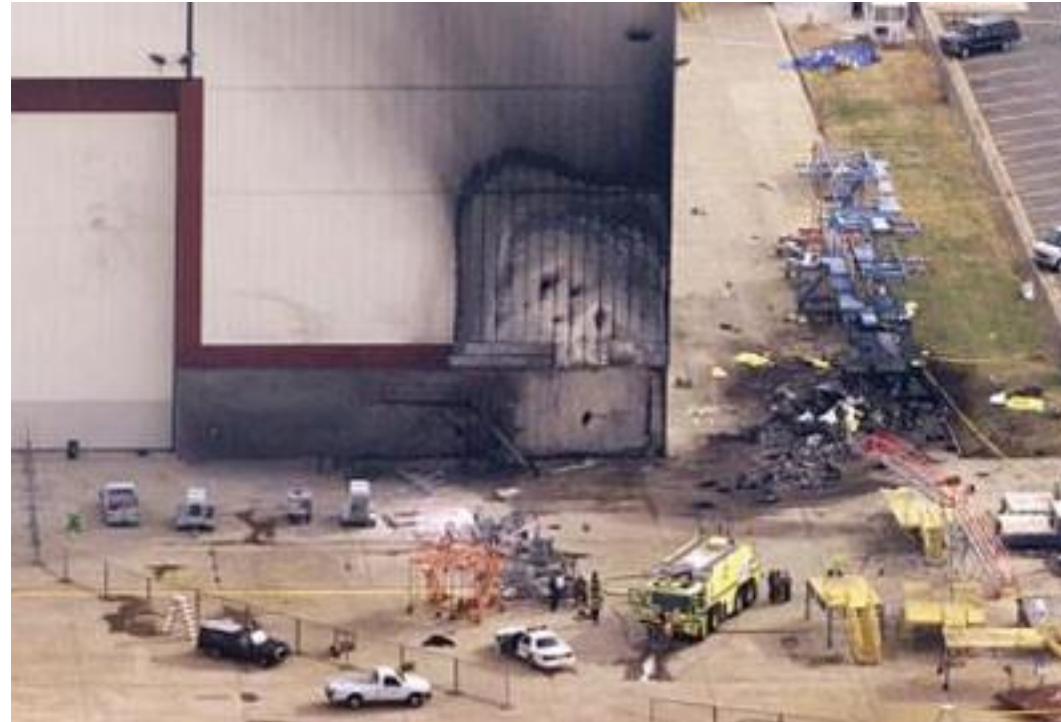
HOT-2: "V-two "

HOT-2: "positive rate."

HOT-1: "gear up "

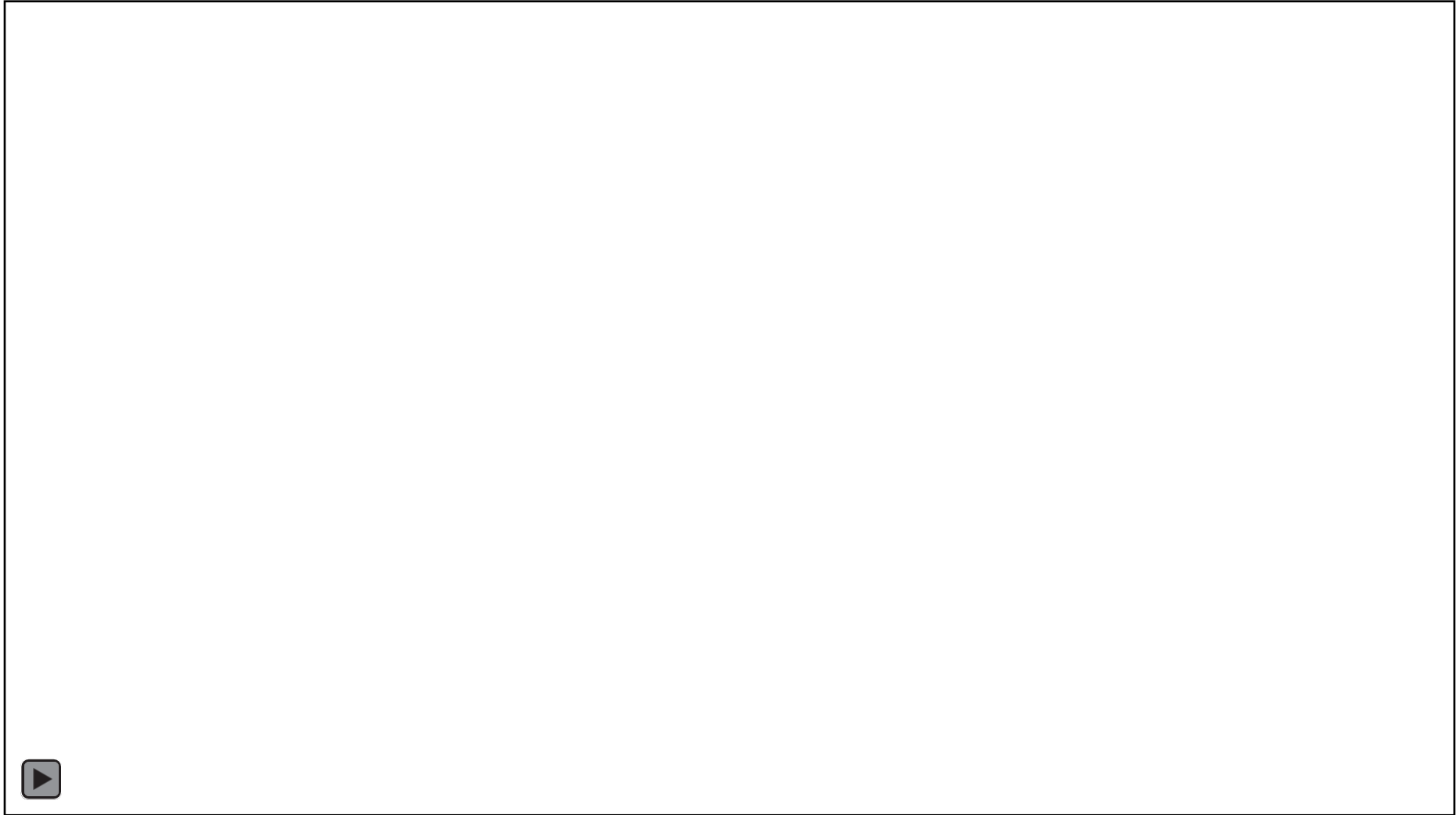
NTSB

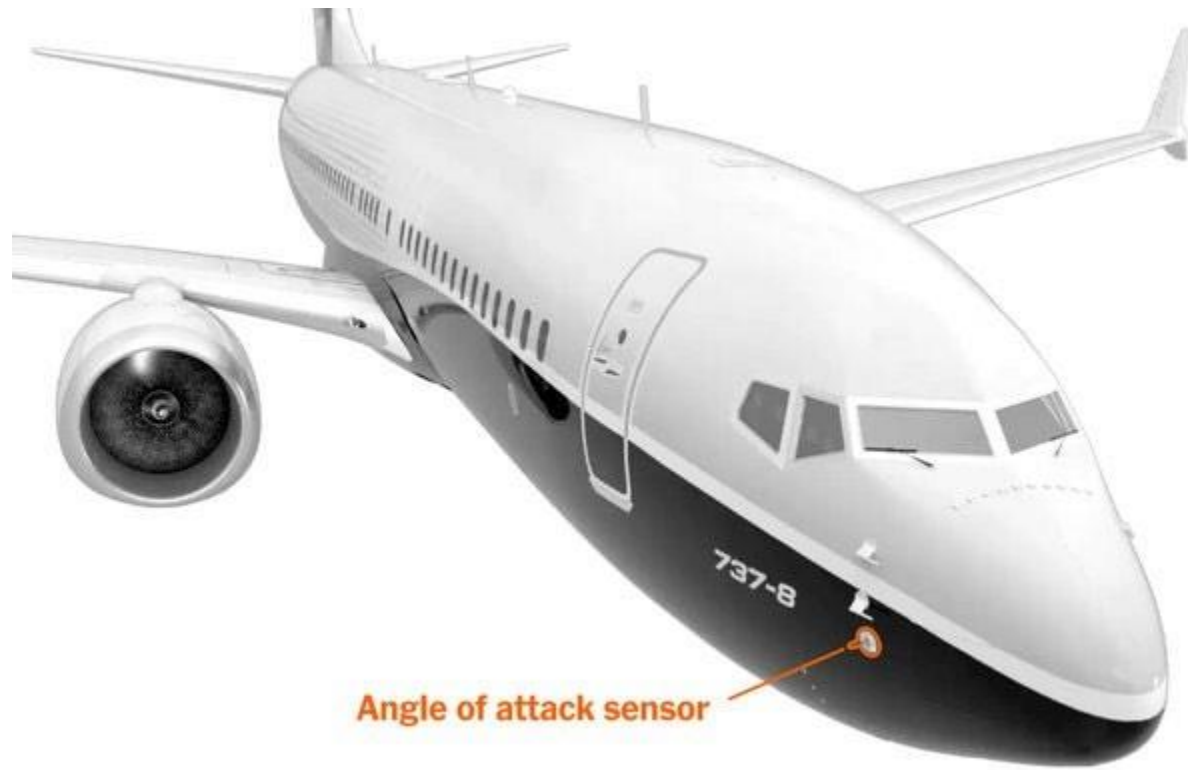
# Air Midwest/USAirways Express Flt 5481, Charlotte, N.C. January 8, 2003, 21 fatalities



**Cause:** faulty maintenance on cables that control the elevator and pitch control system in the tail and aft weight over load

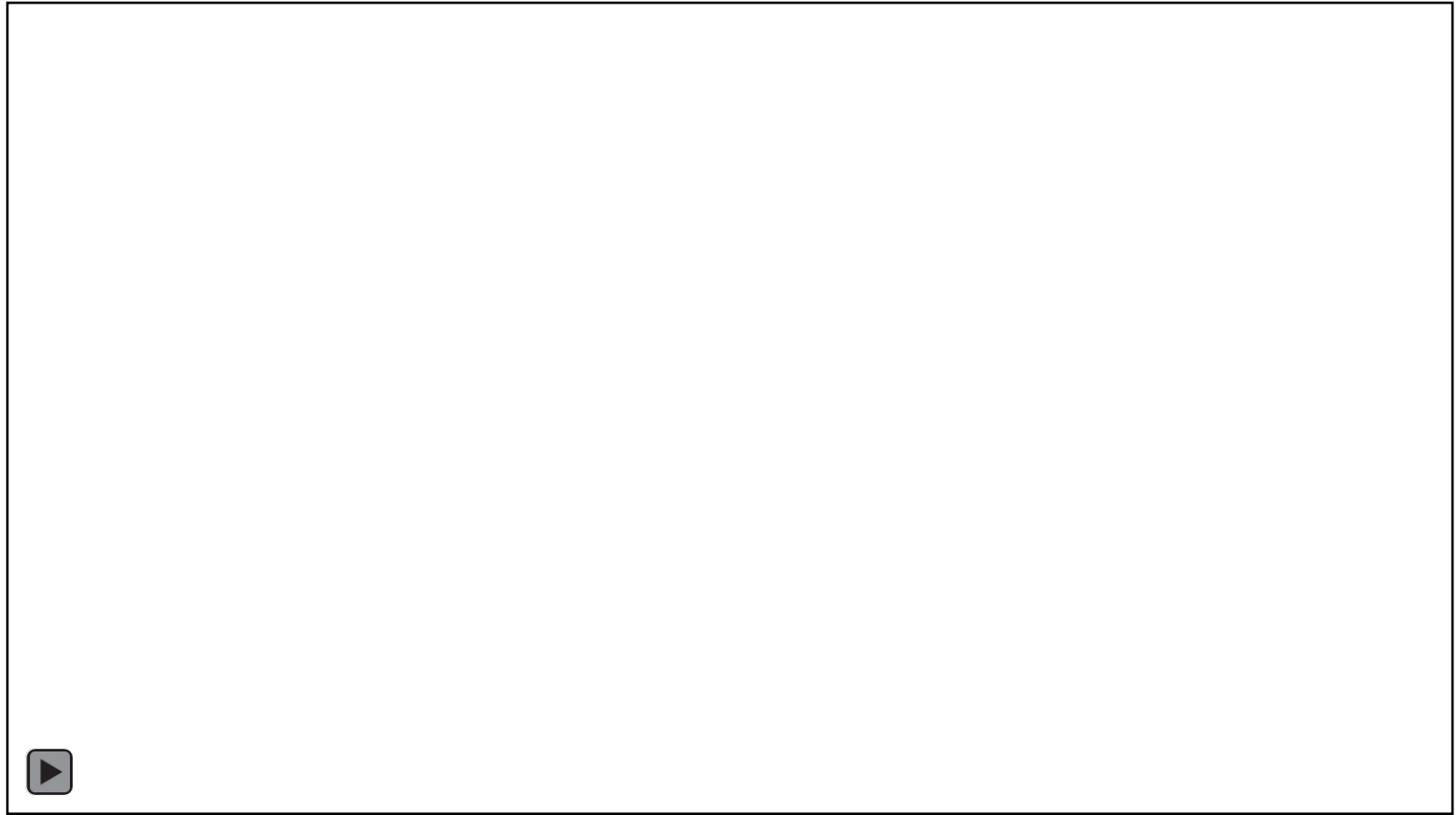
# Boeing 737 MAX-8



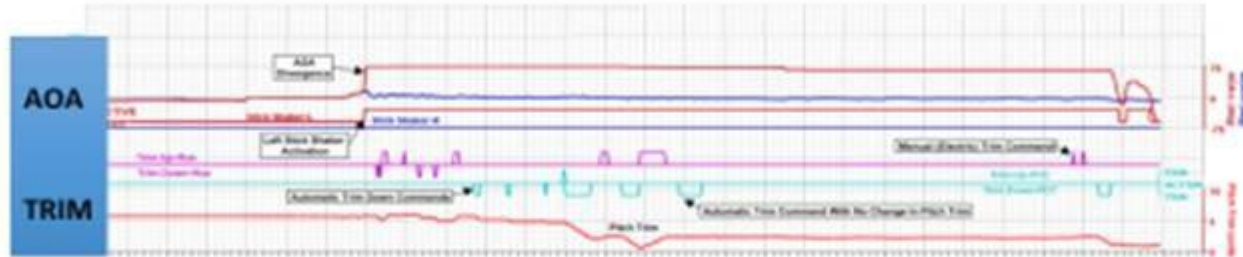


Angle of attack sensor

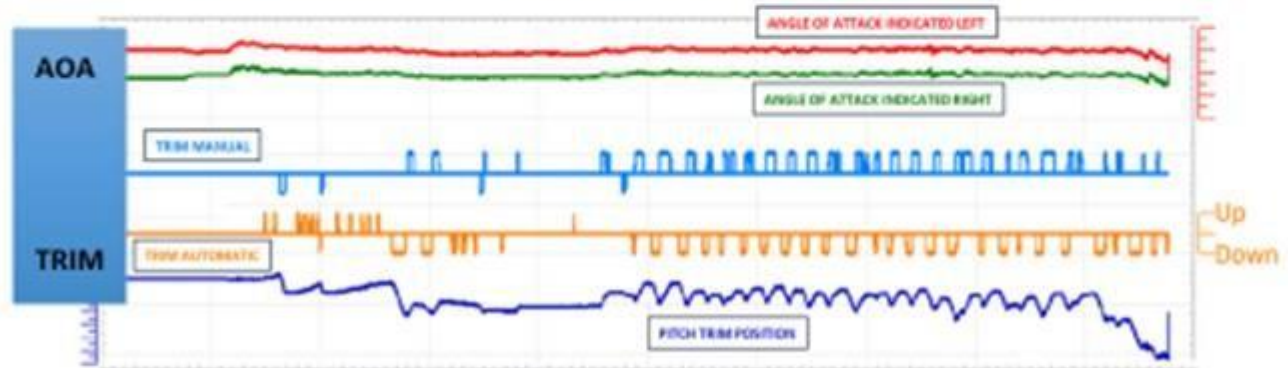




# Accident Investigation



Ethiopian Airlines Flight 302 Flight Data Recorder – Selected Data



Lion Air Flight 610 Flight Data Recorder – Selected Data

# Admissibility

- **FRE 401 – Relevancy, materiality and competency**
- **Foundation – Authentic, Accurate, Identified**
- **FRE 403 – Probative value must not be outweighed by unfair prejudice**

**INADMISSIBLE**



# Swissair

## Flight 111

