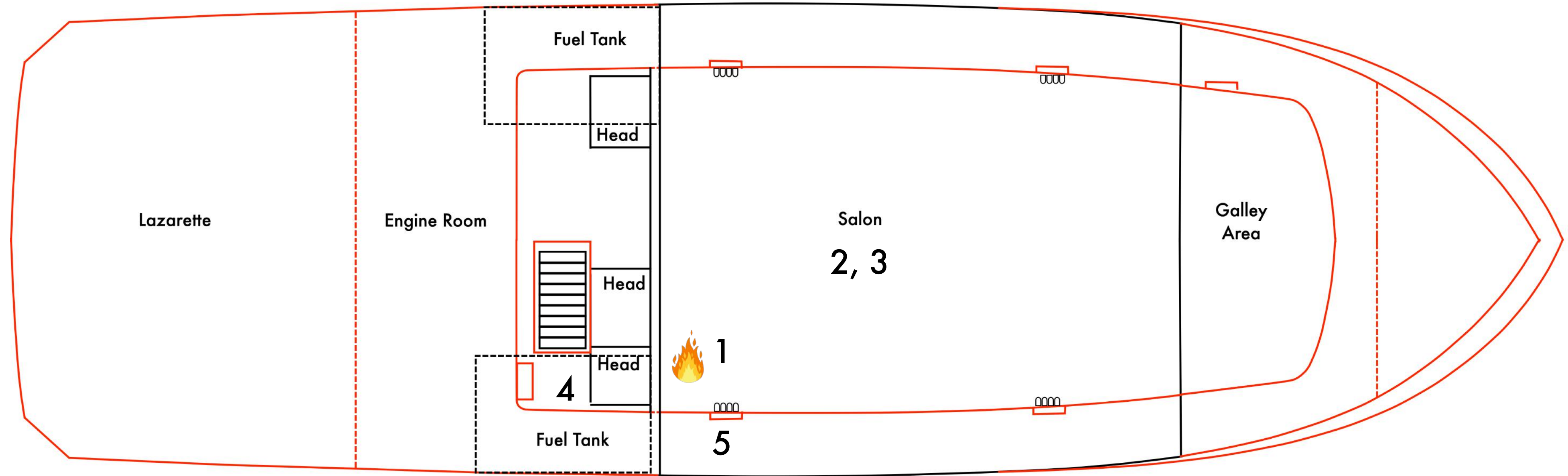


2022 Issues

- Focus on Ignition to Victim Incapacitation (~0300 to 0320)
- Present Current Working Hypothesis
- Enumerate Open Issues and Sources of Resolution

Essence of the Argument

- The Only Ignition Source That Fits the Timeline is Thermal Runaway
- The Only Ignition Location That Fits the Evidence is the Bunk Room
- The Only Fire Development Sequence That Fits is Flashover



1. Thermal Runaway in Stb Aft Corner of Bunk Room 🔥

2. Unknown Propagation of Smoke and CO Through Bunk Room

3. Victim Opens Escape Hatch, Escapes: Flashover

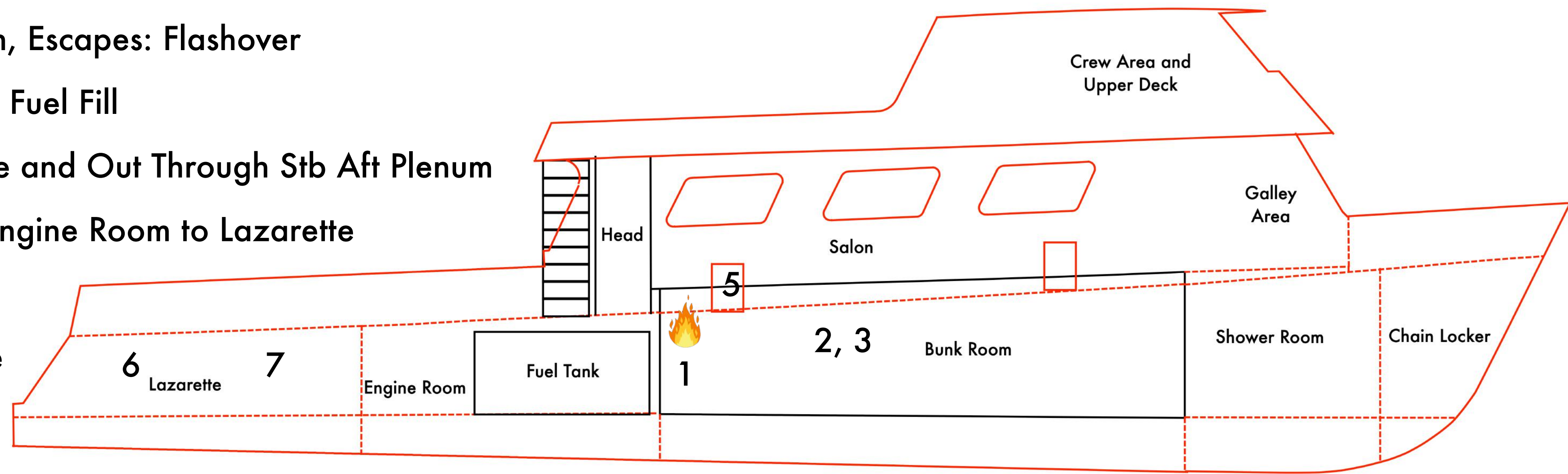
4. Flame Burns through at Stb Fuel Fill

5. Flame Reaches Salon Inside and Out Through Stb Aft Plenum

6. Smoke is Sucked through Engine Room to Lazarette

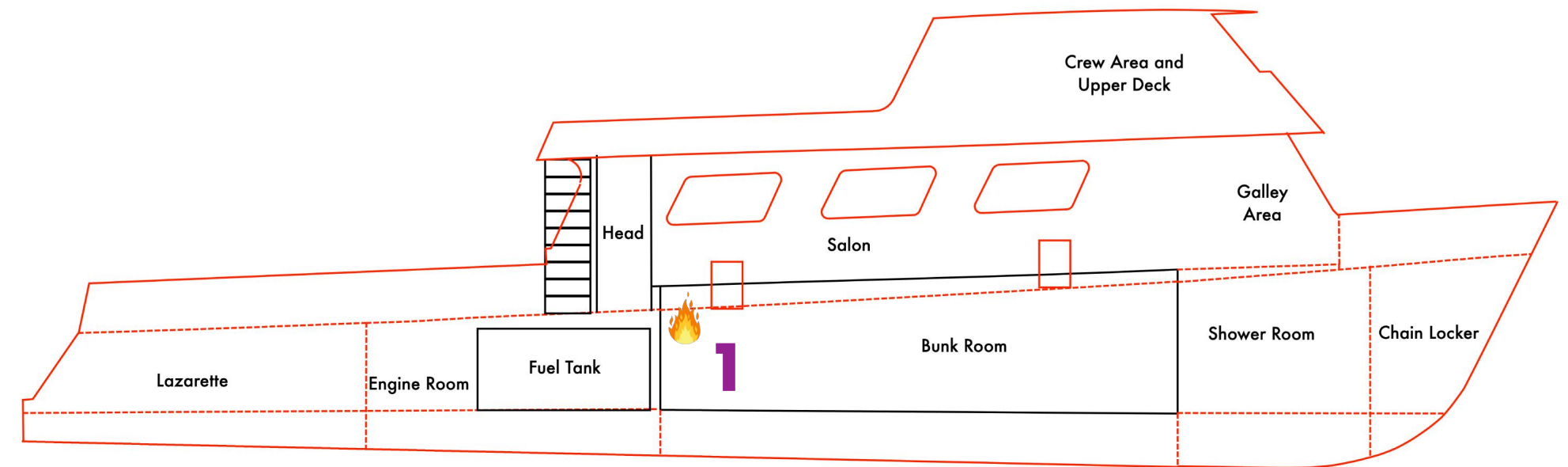
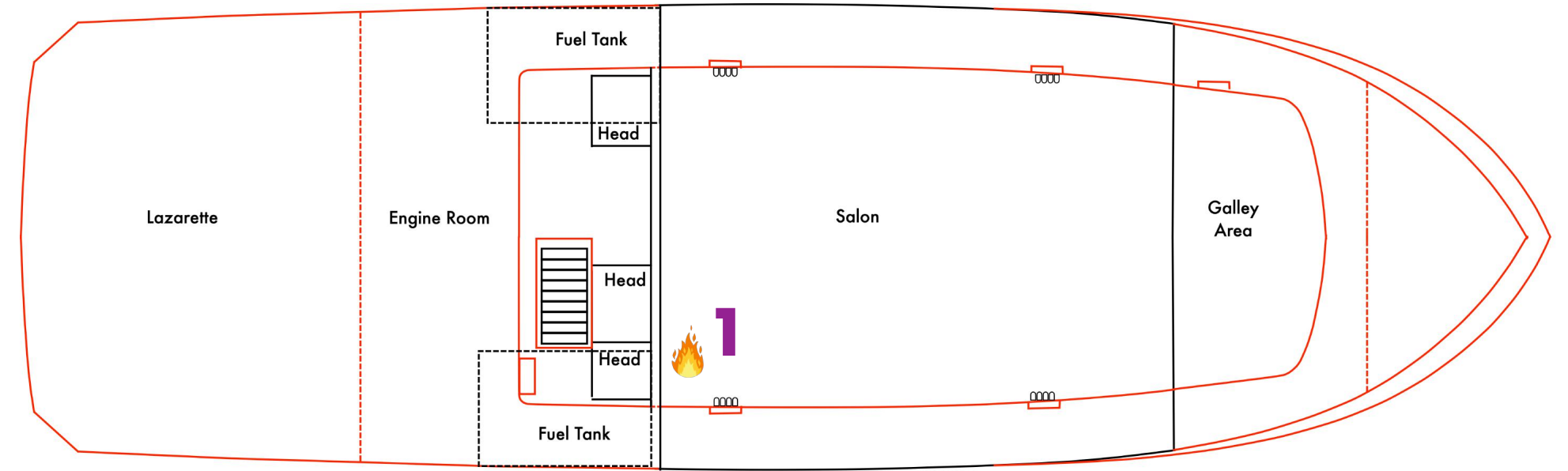
7. CO2 Bottles Discharge

8. Entire Upper Works on Fire



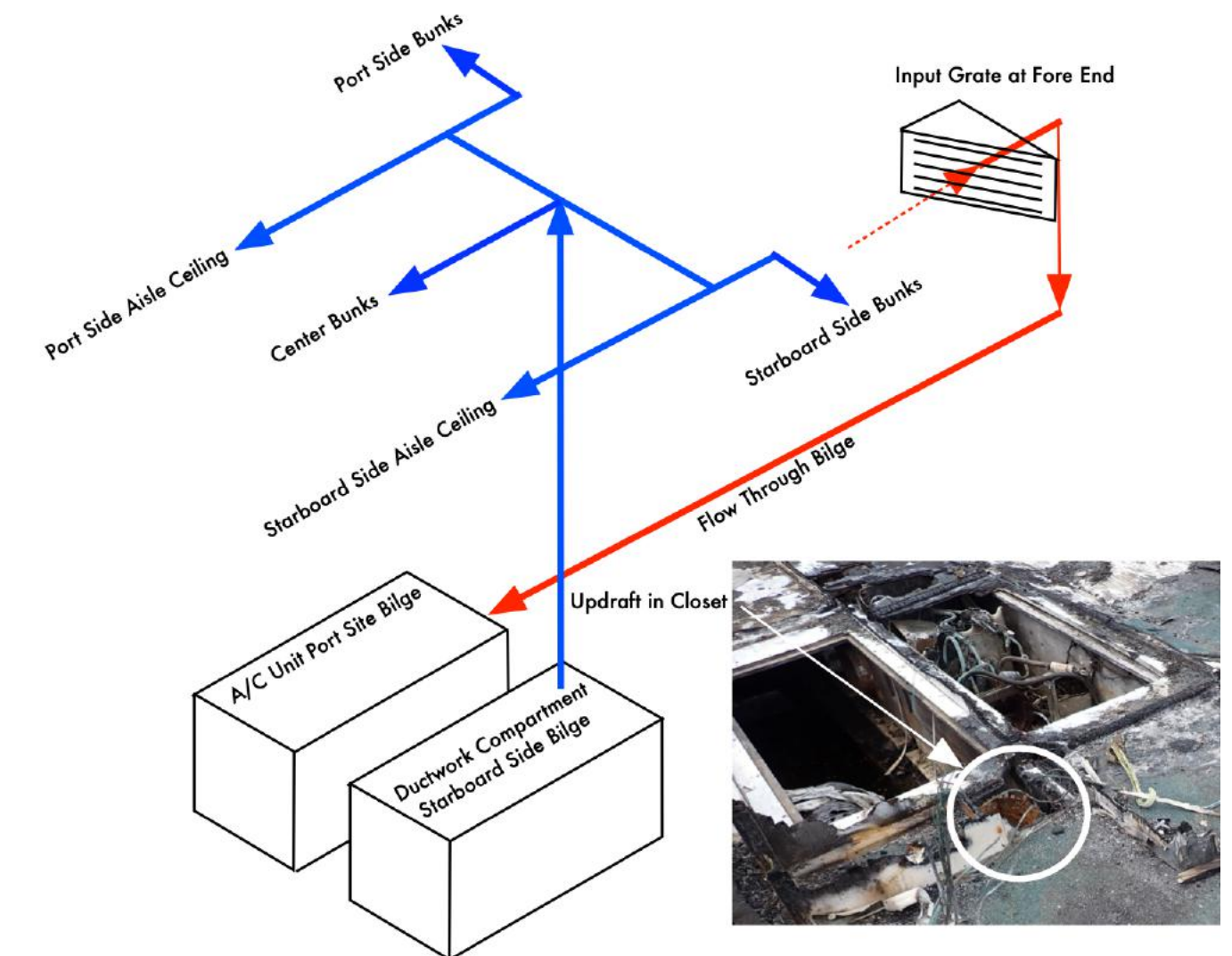
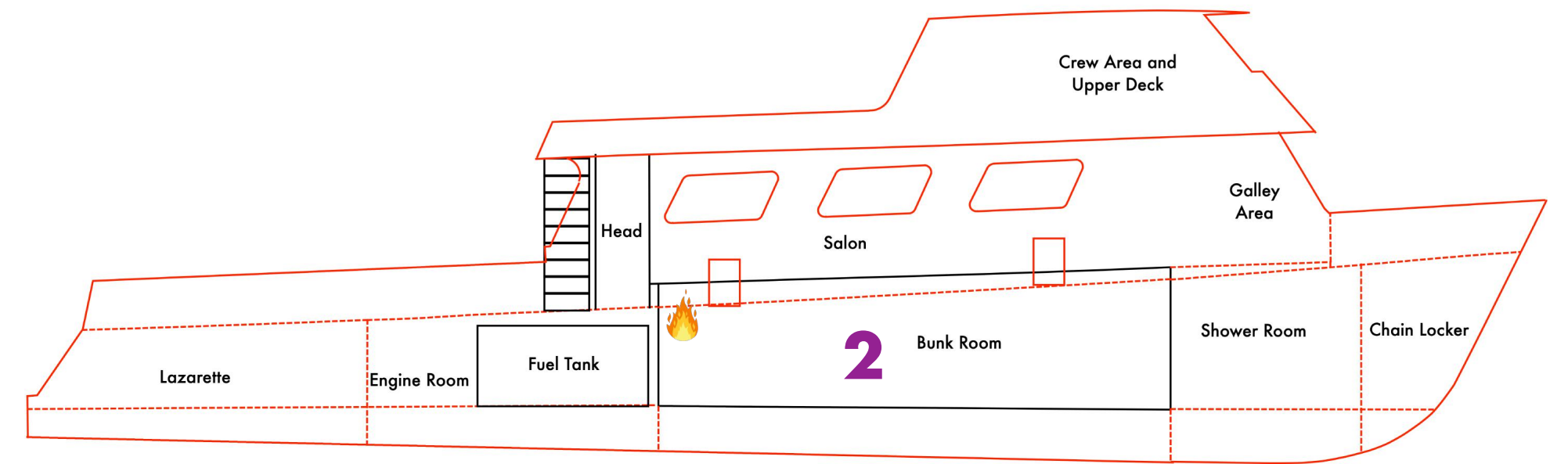
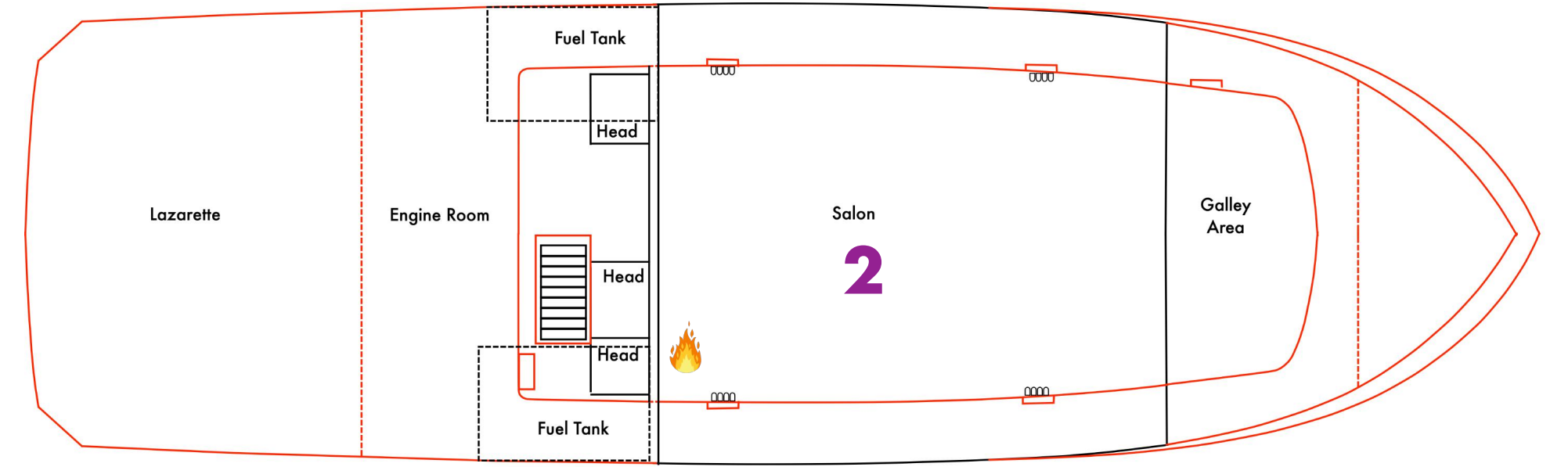
1. Thermal Runaway Issues

- When: Cell Tower, VIIRS Day/Night Satellite Cover [AI6YR]
- What: Survivor Inventory, Sea Landing Dive Shop, ATF Evidence
- What: Flashlight Discrepancy
- What: Vision Runaway
- Where: Recovery Divers, First Responders' Body Sightings, Flashovers, Model, Crew Testimony



2. Smoke/CO Propagation Issues

- Lethal Concentrations: Pathologist
- Bunk Room Fire Extinguisher: Medical Examiner
- Air Handling and A/C: Boylan, Current and Former Crew
- Smoke/CO Source: Sampling, Bills of Materials
- Probably Isolated from Outside Air





Bulk Air Path (Closed Issue)



(Vision)



Salon Deck

4x3" PVC Pipe

Plenum Box

Blower

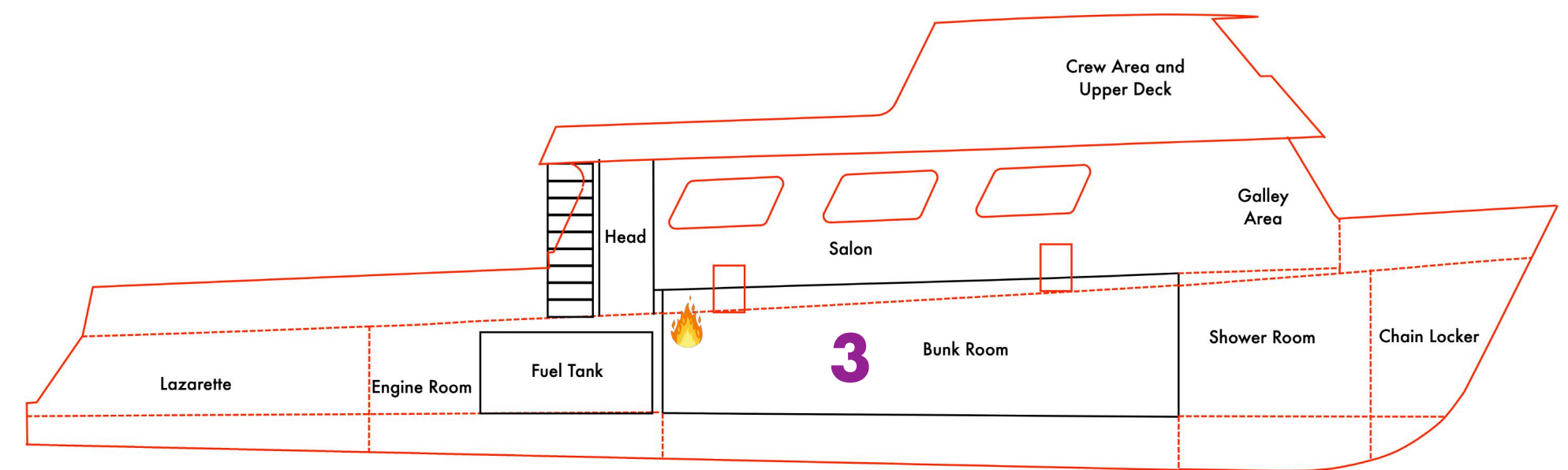
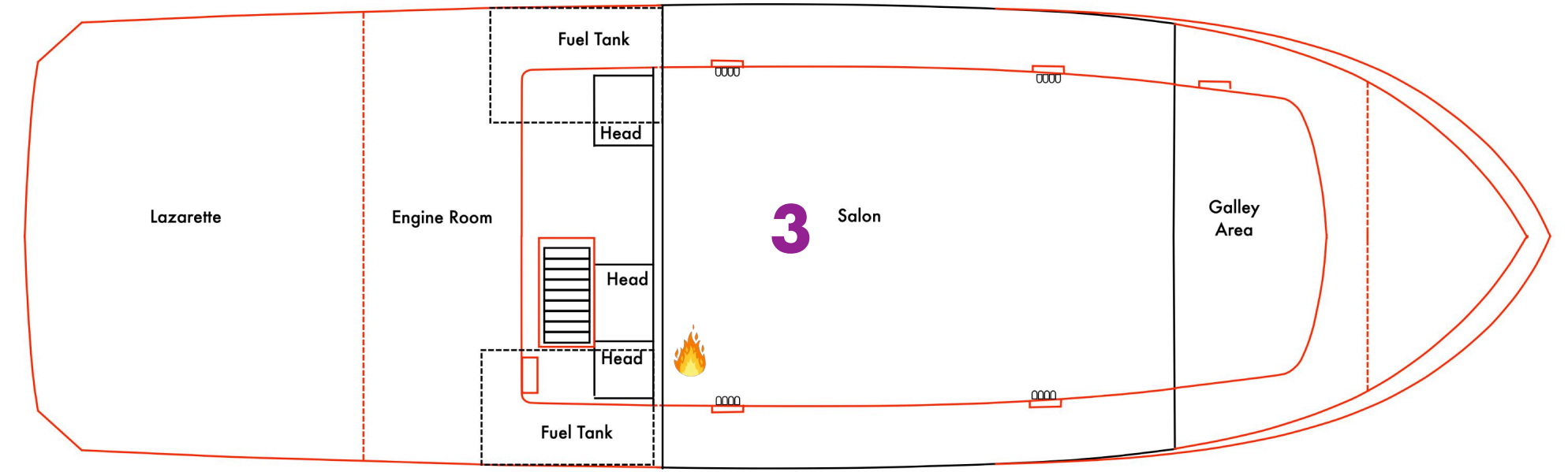
Bunk 5U

Bunk 6L

- Plenum Box Cover is Filter Cloth
- PVC Melts at 150 - 200 Deg.
- Provides Smoke and Flame Path to Salon Inside and Outside
- Probably Not a Factor Pre-Flashover

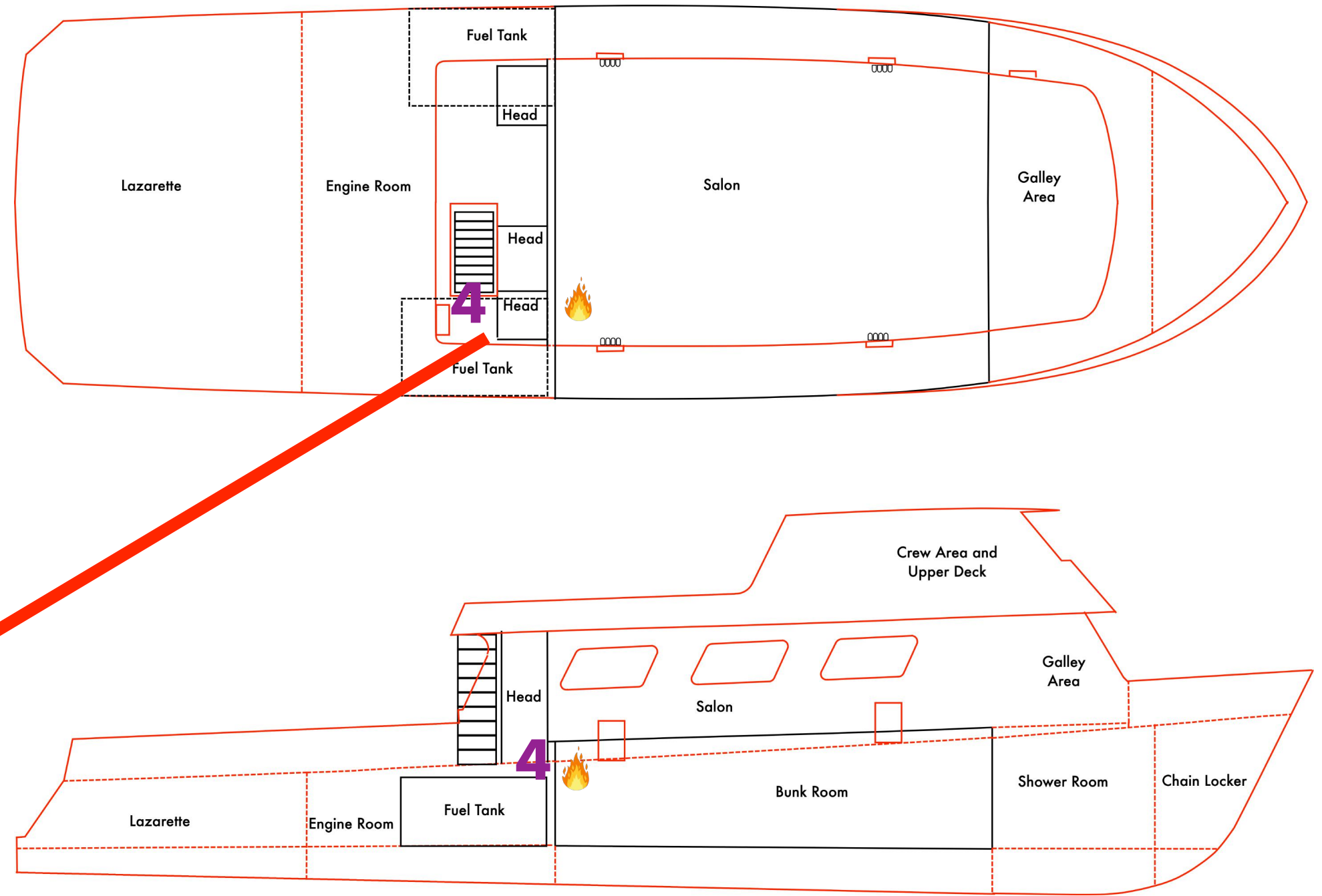
3. Flashover Issues

- Escaped Victim Condition: Pathologist
- Escaped Victim Location: Recovery Divers
- Speed/Intensity: Fire Expert



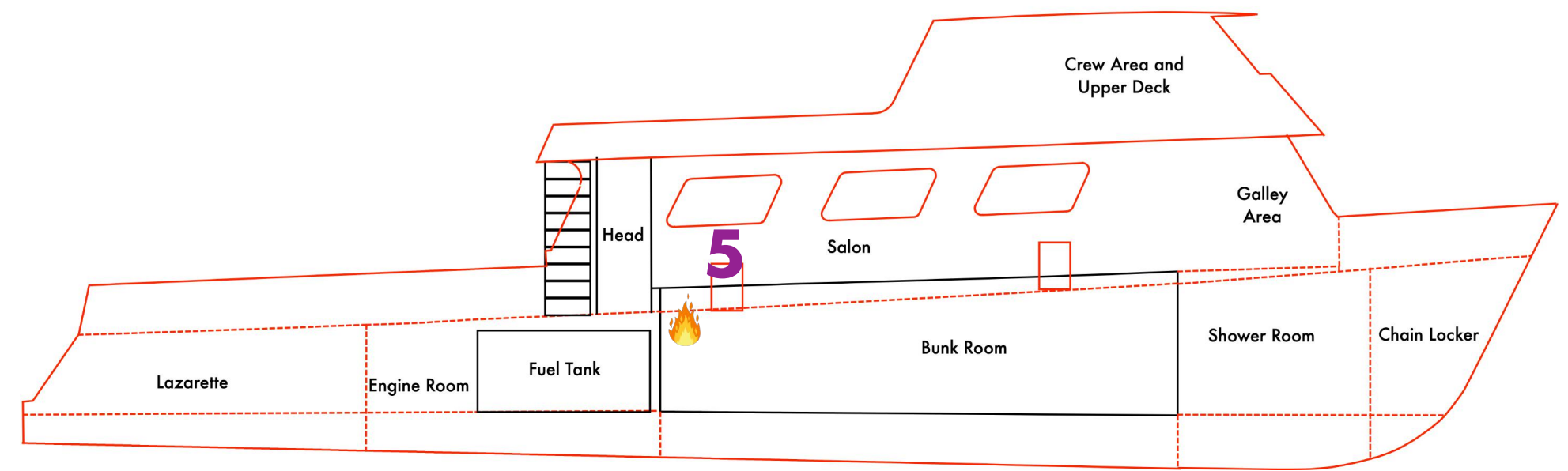
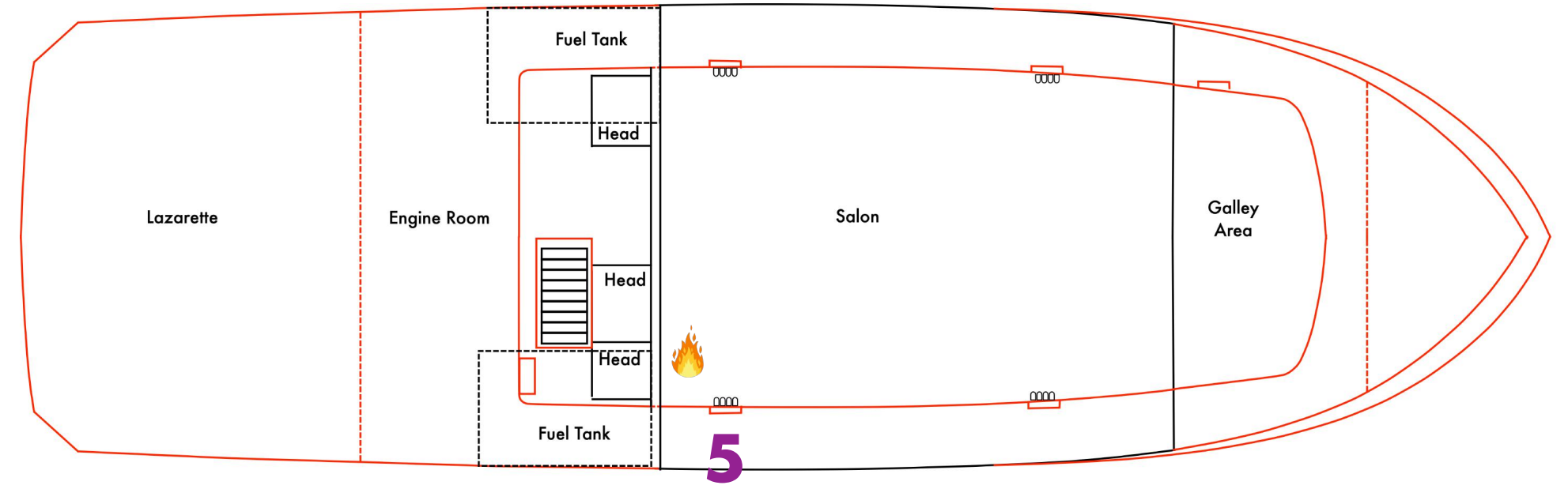
4. Burn Through Issues

- External Appearance: Crew + Model
- Prior Bulkhead Breach: Previous PAX



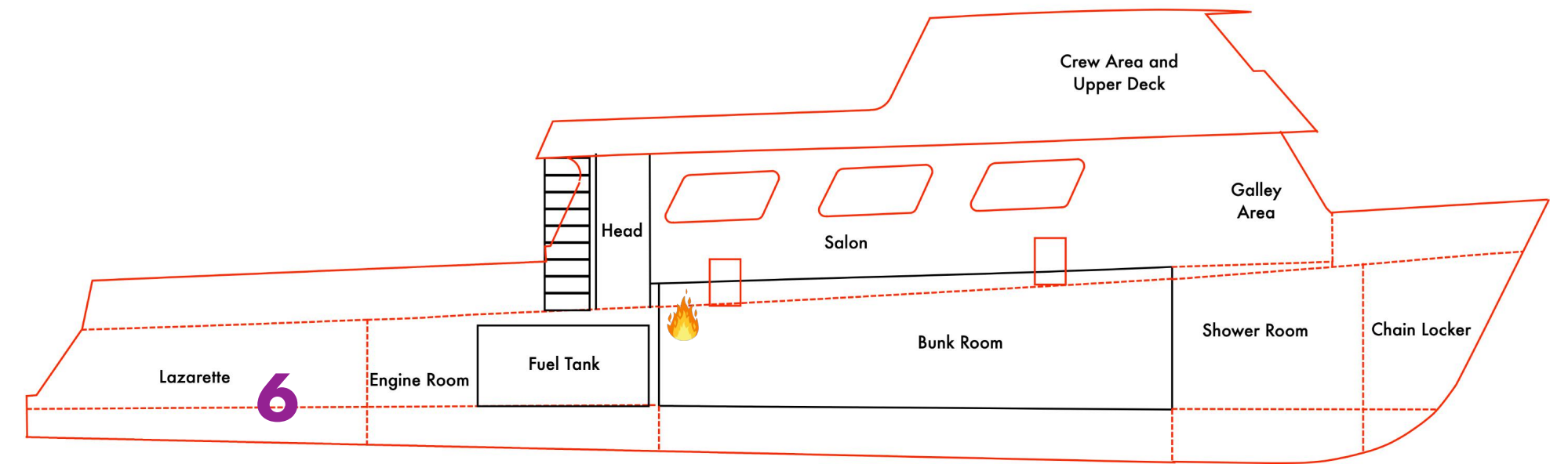
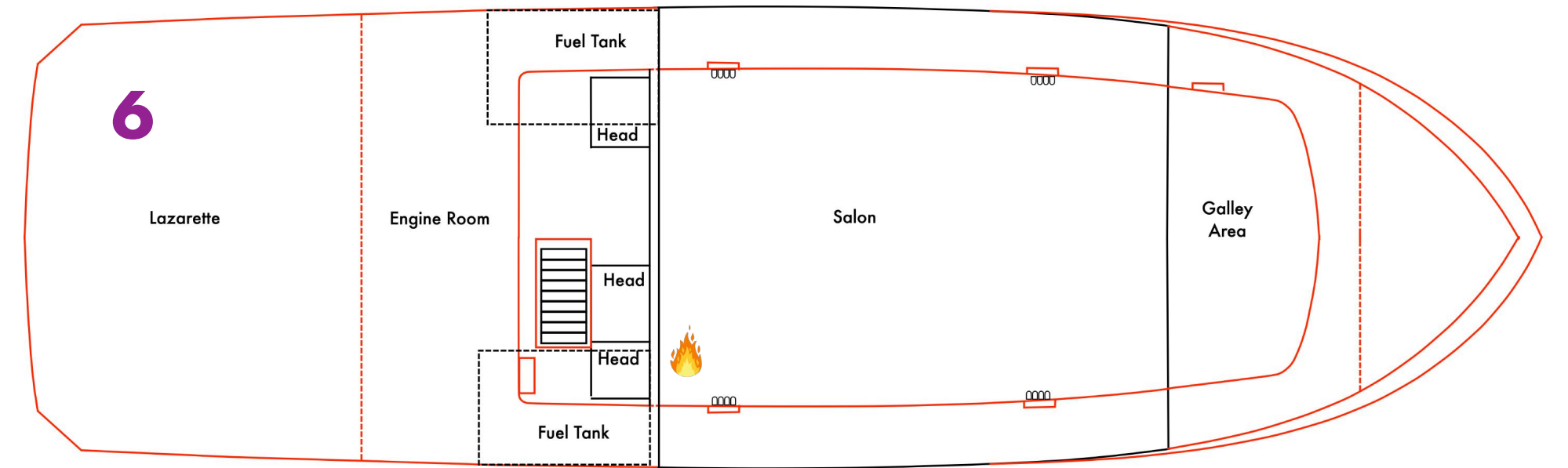
5. Salon Ignition Issues

- Flammability: Truth Aquatics Business Records
- “Pulsing” Initial Burn: Fire Expert



6. Aft Smoke Issues

- Deck Temperature: Crew, Fire Experts
- Smoke Appearance: Crew, Fire Experts
- Portside Aft Burn Through: Photos, Boylan, Crew, Former Crew



7. CO2 System Issues

- Location: Boylan, Crew, Former Crew
- Actuation and Hookup: Lankildes Fire Protection
- Recovery: FBI Evidence Team, ATF

