SPIEL #15: ROPE SYSTEM

- 1. **DESCRIPTION**: Twin Tension Rope System with CMC Clutch
- **USAGE**: Lowering and Hauling scenarios
- 3. **SPECIFICATIONS**:
 - 3.1. HARDWARE:
 - CMC 11mm Clutch (Gray)
 - \circ NFPA (G) Rated, MBS = 40kN (~9000lbf)
 - o CMC Max Working Load = 600lb Load
 - Carabiners: General (G) and Technical (T)
 - o NFPA (G) Rating, Major axis w/ closed gate, ≥ MBS 40kN (~9000lbf)
 - NFPA (T) Rating, Major axis w/ closed gate, \geq MBS 27kN (\sim 6000lbf)
 - General Rated Pulley (for rope only): NFPA (G) Rated, ≥ MBS 36kN (~8100lbf)
 - CMC Steel Ring: MBS = 44.5kN (10,000lbf)
 - Anchor Plate: MBS = 36kN (~8100lbf)
 - 3.2. **SOFTWARE**:
 - Sterling 7mm sewn prusik cord: MBS = 17kN (~3800lbf) End to End
 - o Red: 19"
 - o Blue: 25"
 - General 1" nylon tubular webbing
 - o MBS = 17.8KN (~4000lbf) End to End
 - 5' o Green: Yellow: 12'
 - o Blue: 15'

 - o Red: 16' 20' Orange:
 - 11mm Polyester Sheath with Nylon Core static kernmantle rope:
 - o NFPA (G) Rated, \geq MBS 40KN (~9000lbf)
 - 8mm Drop Bag Rope
 - o MBS 13kN (3147lbf)
 - o Utility Use
 - o Lifespan: 10 Years
 - Software Lifespan
 - Operational Lifeline: Operational Lifeline: 0-5 years
 SDFD Training Lifeline: 5-10 years 0-5 years

 - Utility Line (no live loads): 10-15 years

4. MAINTENANCE:

- Rope log shall be completed after each evolution that occurred with live loads
- Wash ropes if dirty
- Use ½ cup of Citro Squeeze in front load washer (no agitator)
- Hang dry at least 24 hours before being stored for service

5. **SAFETY CONSIDERATIONS**:

- Inspect ropes after each use for glazing, milking, core shot, and soft spots
- Inspect Class 3 Safety Harness for excessive wear, damaged hardware, and shock indicator on back
- Do not expose ropes to chemicals, exhaust, or sunlight for extended time
- Knots may reduce working strength of rope by up to 50%
- Always consider edge protection
- Do not stand or step on ropes