

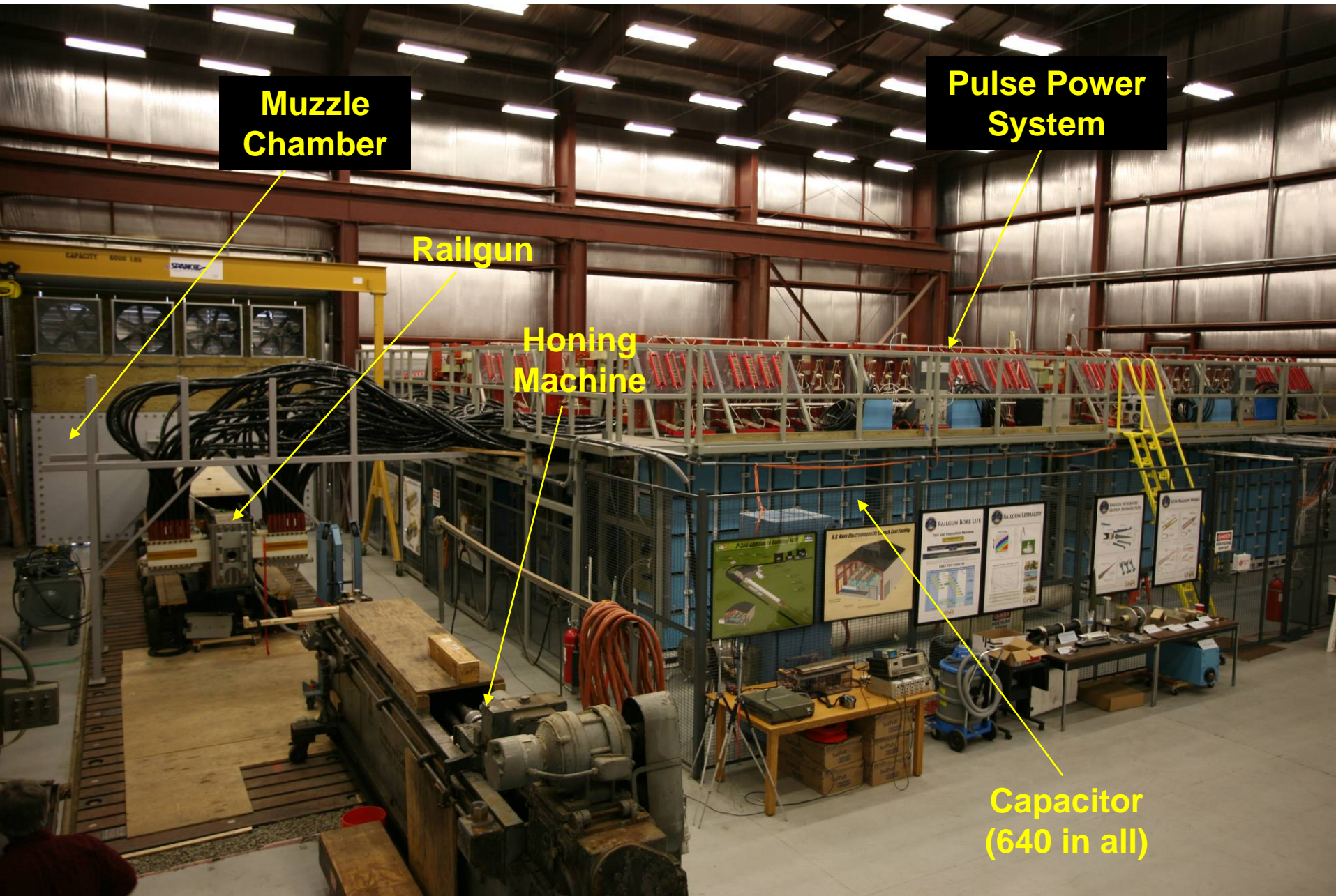
**Muzzle Chamber**

**Pulse Power System**

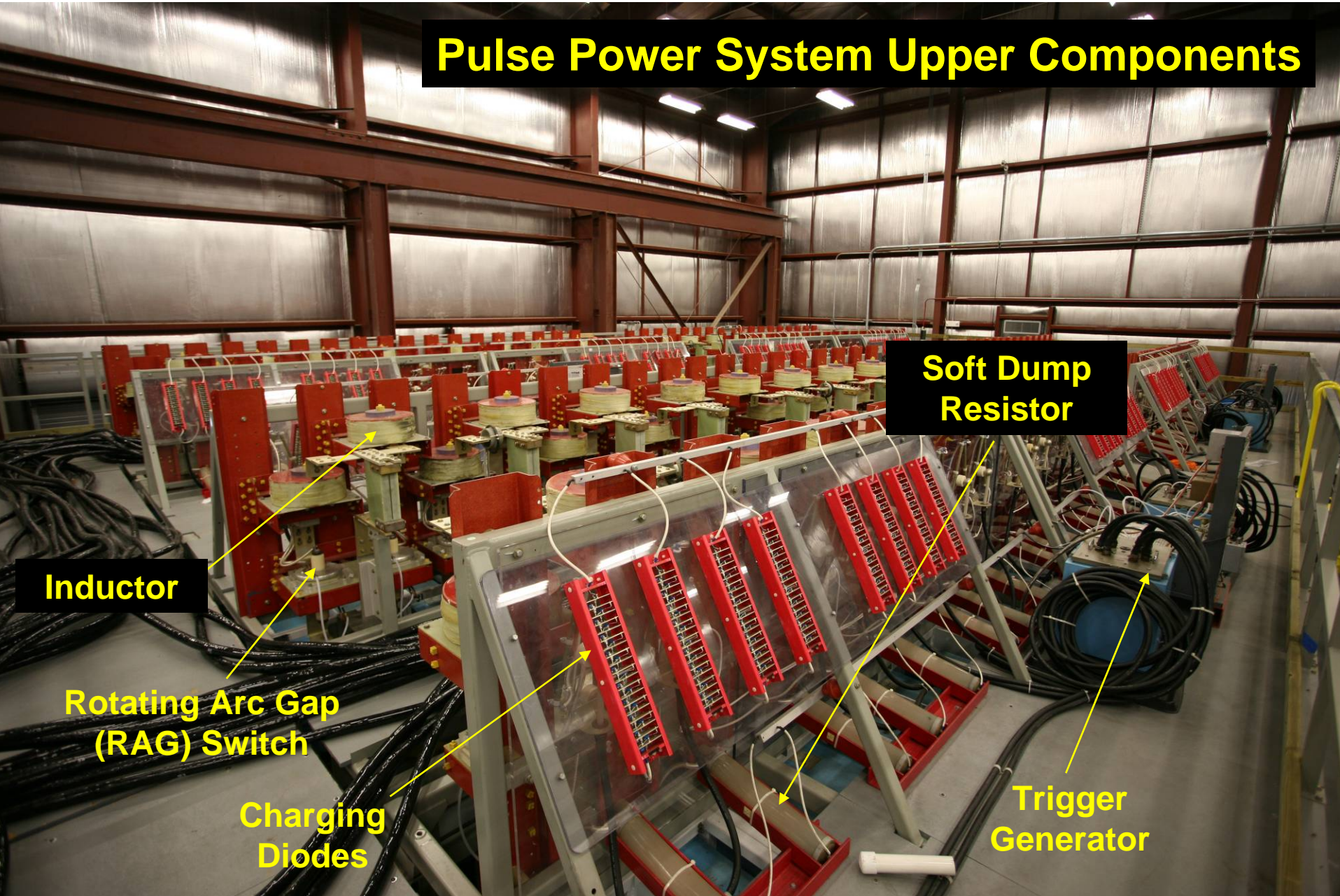
**Railgun**

**Honing Machine**

**Capacitor (640 in all)**



# Pulse Power System Upper Components



**Inductor**

**Rotating Arc Gap  
(RAG) Switch**

**Charging  
Diodes**

**Soft Dump  
Resistor**

**Trigger  
Generator**

- **Railgun**: AKA Electromagnetic Launcher
- **Honing Machine**: Used to precisely size the bore after each change of gun core components.
- **Pulse Power System (PPS)**: Uses capacitors to store and release energy that is used to fire the gun.
- **Muzzle Chamber**: 1" plate steel structure to protect building from blast overpressure.
- **Inductor**: Used to shape current pulse.
- **RAG Switch**: Receives high-voltage signal from trigger generator to release stored energy in each capacitor stack.
- **Soft Dump Resistor**: A water and detergent filled resistor used to bleed off stored energy in the event that a shot has to be aborted.
- **Trigger Generator**: Creates a 60,000 volt pulse to trigger RAG switches.
- **Charging Diodes**: Protect power supplies.