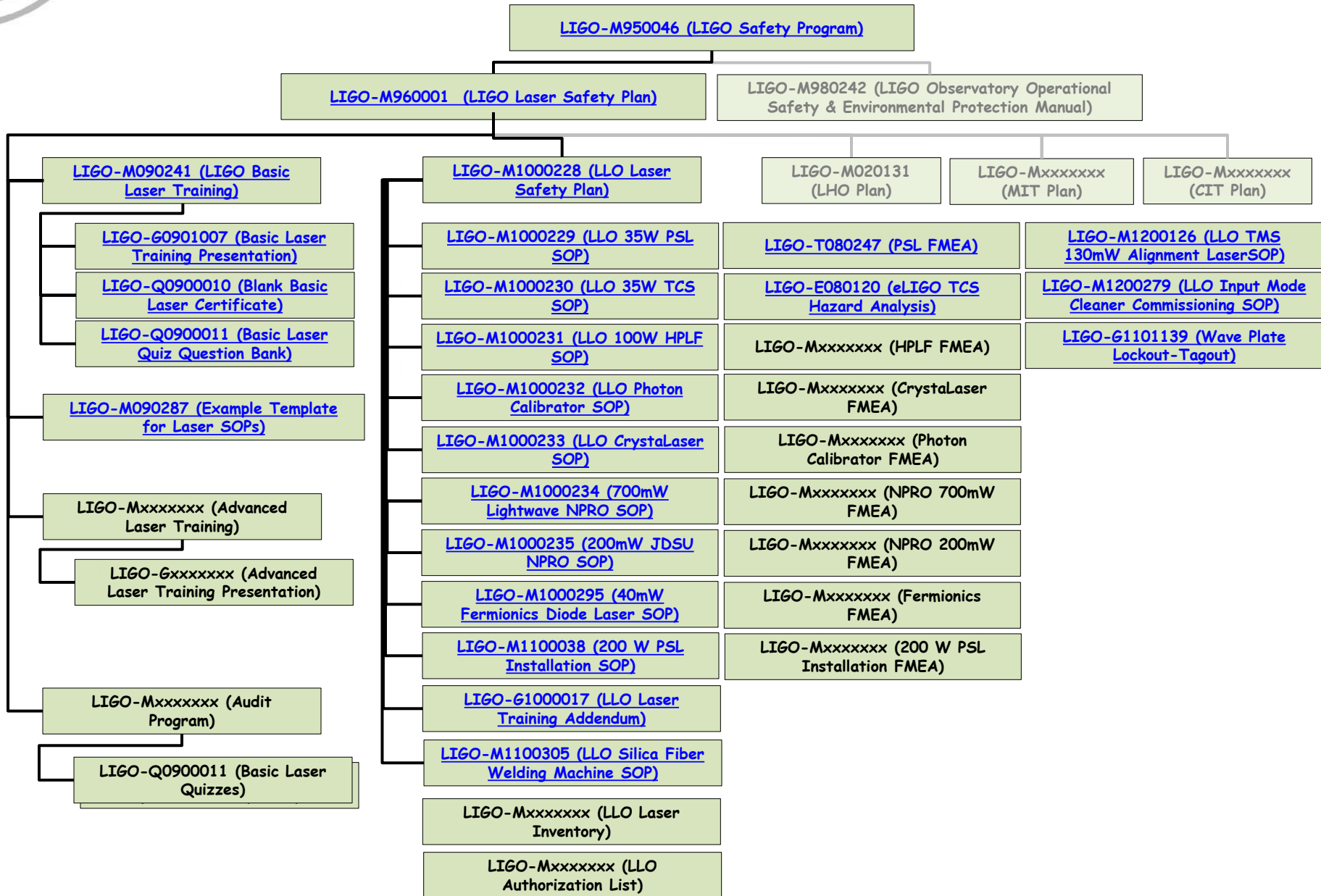
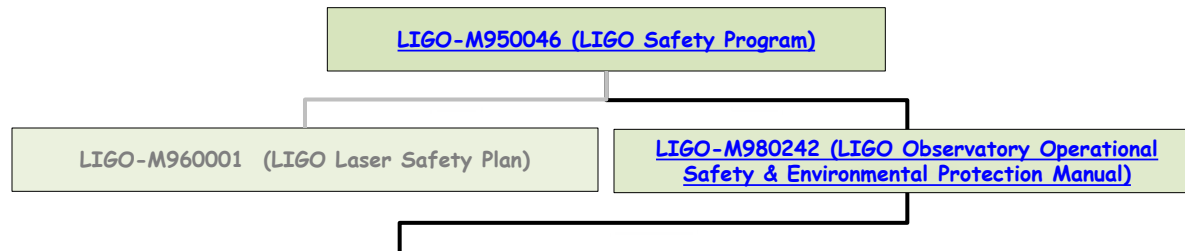


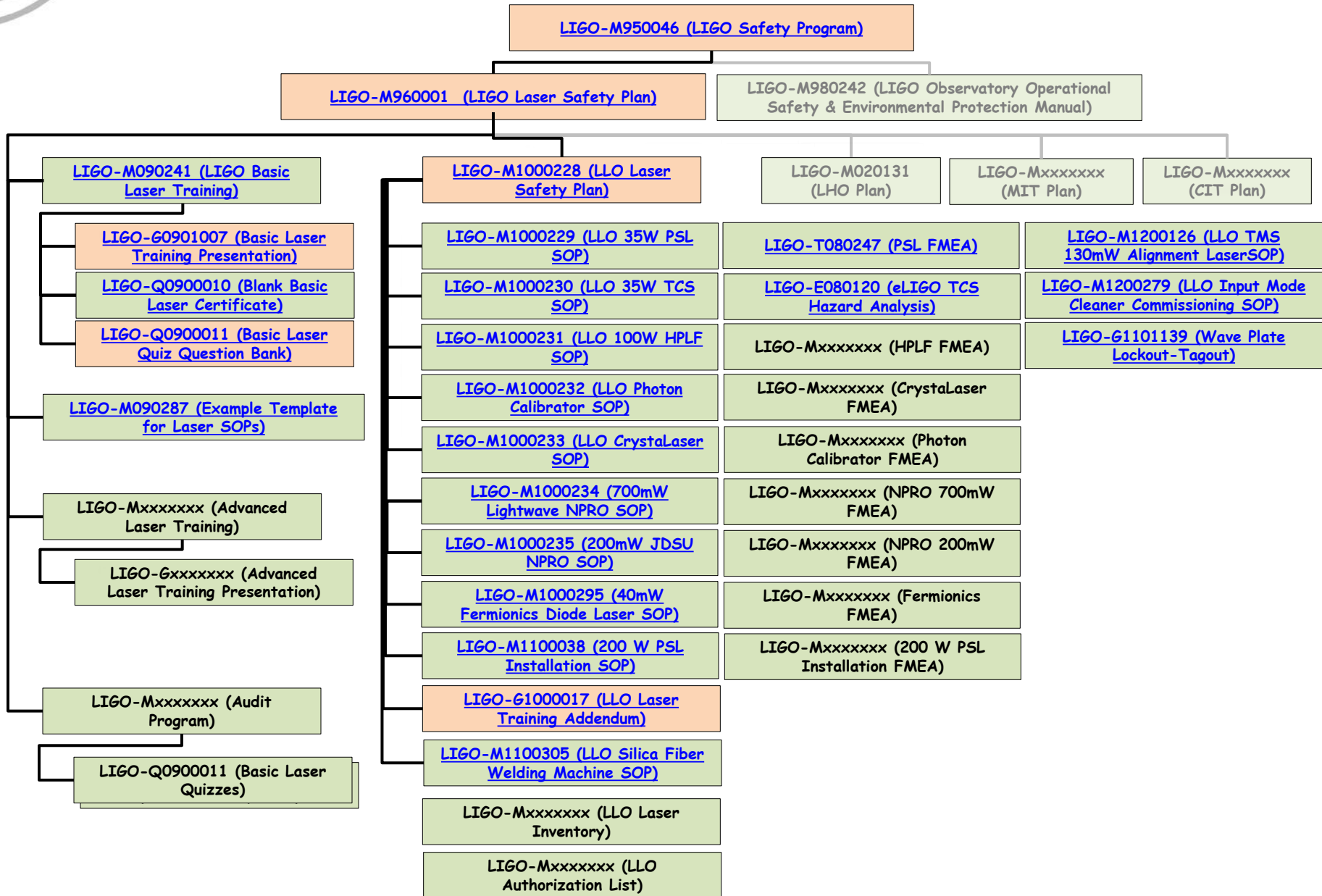
LIGO (Laser) Safety Document Tree



LIGO (Non-laser) Safety Document Tree



- LIGO-M0900136 [LIGO Laboratory Restricted Work Alone Policy](#)
- LIGO-M1000366 [LLO Lockout/Tagout Policy](#)
- LIGO-M1000358 [LLO O-Ring Installation and Flange Assembly Procedure](#)
- LIGO-M1000368 [LLO Beam Tube Enclosure Entry and Egress Procedure](#)
- LIGO-M1000359 [LLO Beam Tube Module Vent Procedure](#)
- LIGO-M1000363 [LLO Mobile Clean Room Relocation Procedure](#)
- LIGO-M1000366 [LLO Lockout-Tagout Procedure](#)
- LIGO-M1000362 [LLO HAM Access Door Removal Procedure](#)
- LIGO-M1000364 [LLO GNB Valve Operating Procedure](#)
- LIGO-M1000365 [LLO Snake Bite, Spider Bite, and Insect Sting Procedure](#)
- LIGO-M1000350 [LLO Beam Tube Module Pump Down Procedure](#)
- LIGO-M1000351 [LLO Technical Power Usage and Safety Guide](#)
- LIGO-M1000352 [LLO Machine Shop Safety Rules](#)
- LIGO-M1000353 [LLO Vacuum Pump Cart Connection Procedure](#)
- LIGO-M1000354 [LLO Site Security Procedures](#)
- LIGO-M1000355 [LLO Conflat Flange Assembly Procedure](#)
- LIGO-M1000356 [LLO Isolatable Volume Pump Down Procedure](#)
- LIGO-M1000357 [LLO Spool Manifold Removal Procedure](#)
- LIGO-M1000367 [LLO Gantry Crane Rules](#)
- LIGO-M1100264 [Guidelines for Work at a LIGO Observatory](#)
- LIGO-E1000043 [HLTS Assembly and Installation Hazard Analysis](#)
- LIGO-E1000603 [LIGO BSC iLIGO PISI De-Install](#)



EMPHASIS on Policy

- 1) Read the SOP for your laser-of-interest.
- 2) A diagram of the laser setup must be approved by the LSO.
- 3) Work rules are found in M1100264. There are no exceptions.
- 4) There is no work without a work permit (Ref: M950046).
- 5) ALL laser activity must be coordinated with the on-duty control room operator. (Carry a phone.)
- 6) Live laser activity without a prior transition to laser hazard is not permitted.
- 7) The RLO is simultaneously responsible for BOTH PSL and LDR hazard zones.
- 8) M0900136 – Restricted Work Alone Policy is enforced.
- 9) M1000336 – Lockout/Tagout Policy is enforced. (Note: An alog entry is now required.)

EMPHASIS on Environment

- 1) NHZ fire extinguishers
- 2) Warning sign locations
- 3) Appropriate protective eyewear

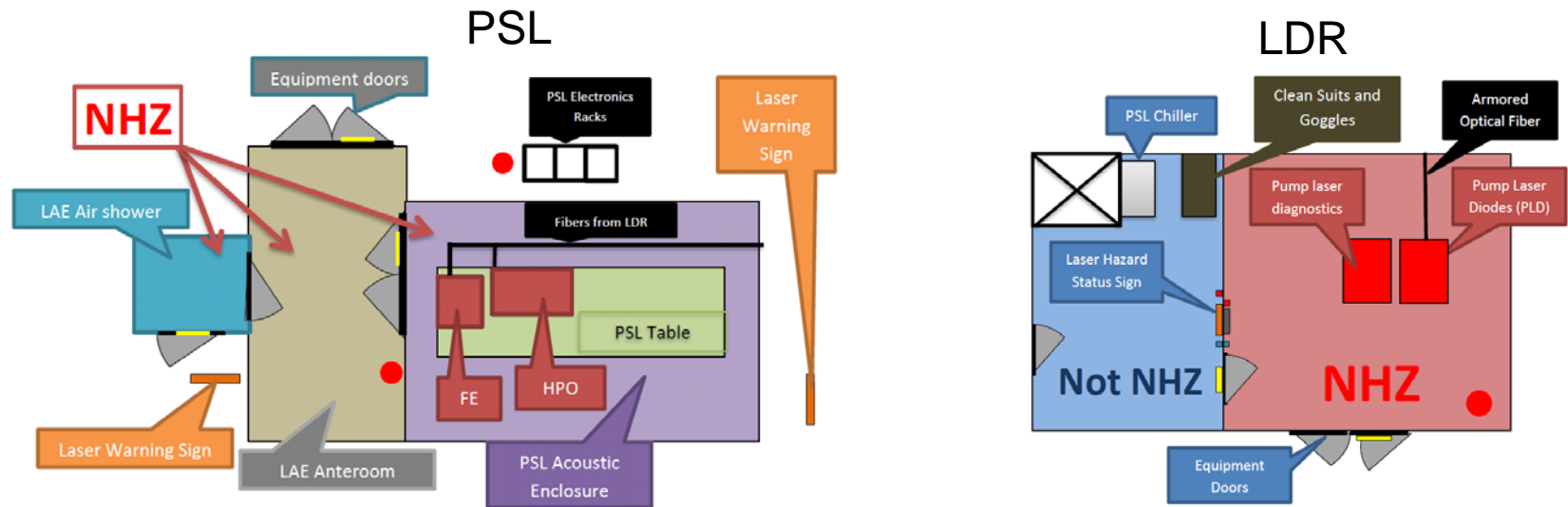


Figure 2: A diagram of the laser area enclosure (LAE) is shown above. The respective locations of the front end injection laser and the high power oscillator are represented inside the acoustic enclosure. Laser operators must enter the LAE through the air shower. Lit laser warning signs are shown in orange. Laser warning placards are placed colored yellow. All areas within the LAE are NHZs. The red circles indicate locations of fire extinguishers.

Figure 3: Laser Diode Room (LDR) floor plan. This figure points out features of the LDR gowning room and NHZ. The red circles indicate locations of fire extinguishers.