

## HAZARD ANALYSIS - LASERS

**Description of Work:** Class III-B Laser Testing: VCSEL (laser diode), PIN photodiode and optical fiber characterization and testing. The optical power used will place the VCSEL up to class III-B (maximum). The optical beam will always be enclosed and not exposed to the open air.

Step/Phase of Job	Safety Hazard	Precautions/Safety Procedures
Pre-test Start-up	Accidental eye exposure to beam.	Training of operators in laser safety
Pre-test Start-up	Accidental eye exposure to beam.	Enclosed laser.
Pre-test Start-up	Accidental eye exposure to beam.	Post laser hazard signs
Pre-test Start-up	Accidental eye exposure to beam.	Qualified laser operator present at all times when testing.
Pre-test Start-up and during testing	Accidental eye exposure to beam.	Operators must wear eye protective goggles.
Pre-test Start-up	Accidental eye exposure to beam.	Check laser, connectors, fibers, and PIN diodes to assure that the beam will not be freed to air.
During testing	Accidental eye exposure to beam.	Never disconnect laser diode or PIN photodiode from fibers when the power supply is ON.
Storage	Accidental eye exposure to beam.	Disconnect the laser from the power supply and keep it in a locked place. Remove laser hazard signs.

Accepted: \_\_\_\_\_

**Supervisor/Task Manager**

Date: \_\_\_\_\_

