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LASER INTERFEROMETER GRAVITATIONAL WAVE OBSERVATORY

-LIGO-

CALIFORNIA INSTITUTE OF TECHNOLOGY

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TCS IR Comparator Test Plan		
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1 Introduction

The rudimentary test described below is required to verify the correct basic functioning of the TCS IR Comparator box, and its IR sensor.

2 Test Equipment

Functioning TCS CO2 Laser Control Chassis (D1200475)
Cigarette Lighter

3 Tests

Plug the IR Sensor into the "From IR Sensor" connector on the Comparator Box, and connect the comparator box to the Laser Control Chassis with a normal M-F DB9 cable. Turn on the Laser Control Chassis, and check the lights on the IR Comparator Box. Are all the power lights illuminated? If you light a cigarette lighter, and bring it close (within ½") to the IR sensor, does the "Fault" LED illuminate on the Comparator box? Does the "IR Fault" LED light up on the Laser Controller Chassis? If the answer to any of these questions is "no", then the unit fails the test.

LED	Did the LED light? Y/N
+15	
-15	
+5	
Fault	
IR Fault	