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| TNC Testing Form (REV1) | |
| Leaf on the Tree | 1.2.2.1 |
| Device Under Test (Testing Tree Number): | LED |
| Date: | 11/1/20 |
| Person(s) Conducting Experiment: | Kobe Keopraseuth |
| Signature: |  |
| Experiment Purpose: | The purpose of this experiment is to verify the LED, associated with our PTT circuit is turned on, when the MOSFET switches on. |
| Experiment Procedure: | We will implement the circuit shown below and input 15 V with a pull-up resistor, to act as the radio’s 15 V. Then we will use a tactile switch to switch the MOSFET on and off, which should also turn the LED on and off respectively. |
| Equipment Settings / Software Settings (w Revision): | We use a breadboard to hook up the circuit shown below and a dc power supply for the 15 V. We used LTspice for designing the circuit. We use 3.3V reference to supply to the gate. |
| Testing Diagram / Picture: | **Circuit** |
| Data Points: | **LED off**    **LED on** |
| Pass / Fail: | Pass |
| Interpreted Notes: | When the MOSFET has 3.3 V inputted into the gate, then the LED turns on. When the MOSFET has 0 V inputted into the gate, then the LED turns off. |
| Recommendations for Modifications: | None |