1. THE TOTAL ALLOWABLE CABLE LENGTH USED TO CONNECT ALL OF THE U.S. DEVICES TO THE ASSOCIATED APPARATUS IS 2.438 METERS OR 8,000 FEET.

2. EACH CABLE (OR WIRE) USED TO CONNECT U.S. DEVICES TO THE CONSOLE MUST NOT EXCEED A CAPACITANCE OF 325 µF per 100 µF per foot.

3. THE TOTAL CABLE CAPACITANCE, COMBINING ALL OF THE CABLE USED TO CONNECT THE INTRINSICALLY SAFE DEVICES TO THE ASSOCIATED APPARATUS, MUST NOT EXCEED 0.45 µF per 100 µF per foot.

4. EACH CABLE MUST NOT EXCEED AN INDUCTANCE OF 0.656 µH per 0.2 µH per foot.

5. THE LOSS RATIO OF THE CABLE MUST NOT EXCEED 200 µV per mile.

6. FOR EACH TLS-CONSOLE INSTALLED, THE MAXIMUM NUMBER OF U.S. DEVICES CONNECTED TO THE ASSOCIATED APPARATUS IS 8. A MAXIMUM OF TWO HLS CONSOLES CAN BE CONNECTED TO EACH TLS CONSOLE.

7. THE TOTAL NUMBER OF TLS CONSOLES CAN BE DETERMINED TO EQUAL THE TOTAL CONSUMPTION OF THE U.S. DEVICES.

8. NON-HAZARDOUS ASSOCIATED APPARATUS AS SHOWN AND MUST NOT BE SUPPLIED FROM OR CONTAIN UNDER NORMAL OR ABNORMAL CONDITIONS, A SOURCE OF POTENTIAL TO EARTH IN EXCESS OF 250V R.M.S. OR 50V D.C.

9. CONNECT THE GROUNDING CONDUCTOR TO THE EARTH GROUND BUS AT THE POWER DISTRIBUTION PANEL WITH A 4 sq. mm (10 AWG) OR LARGER CONDUCTOR.

10. THE USE OF A FIELD MOUNT CONNECTION BETWEEN A WATERPROOF TERMINATION BOX AND EACH INTRINSICALLY SAFE DEVICES MAY USE AN OPTICAL SPLITTER PROTECTOR IN PLACE OF THE LOW-VOLTAGE TERMINATION BOX LOCATED IN ZONE 0. SPLITTERS MUST BE CONNECTED TO A CERTIFIED IN-LINE DEVICE OR FOR SIMPLE APPARATUS.

11. F THE INSTALLATION LOCATION IS SUSCEPTIBLE TO EXPOSURE TO OTHER SUFFERS, AIR, OR TEMPERATURE, AND EXPOSURE TO EXCESSIVE TEMPERATURE, THEN OTHER ELECTRICAL EQUIPMENT IN ACCORDANCE WITH IEC 60079-26, SECTION 4.8, IS REQUIRED.

12. GROUNDING MUST BE CONNECTED TO THE WALL OF THE INSTALLATION Location, THE WALL INSTALLED IN ACCORDANCE WITH IEC 60079-26, SECTION 4.8, IS REQUIRED.

13. A FIELD MOUNTED CONNECTION BETWEEN A LOW-VOLTAGE TERMINATION BOX AND EACH INTRINSICALLY SAFE DEVICES MAY USE AN OPTICAL SPLITTER PROTECTOR IN PLACE OF THE LOW-VOLTAGE TERMINATION BOX LOCATED IN ZONE 0. SPLITTERS MUST BE CONNECTED TO A CERTIFIED IN-LINE DEVICE OR FOR SIMPLE APPARATUS.

14. A FIELD MOUNTED CONNECTION BETWEEN A LOW-VOLTAGE TERMINATION BOX AND EACH INTRINSICALLY SAFE DEVICES MAY USE AN OPTICAL SPLITTER PROTECTOR IN PLACE OF THE LOW-VOLTAGE TERMINATION BOX LOCATED IN ZONE 0. SPLITTERS MUST BE CONNECTED TO A CERTIFIED IN-LINE DEVICE OR FOR SIMPLE APPARATUS.

15. TLS-50, TLS-1, AND TLS-1 CONSOLES MUST BE INSTALLED IN AN INDOOR, NON-HAZARDOUS AREA IN ACCORDANCE WITH THE DESCRIPTIVE SYSTEM DOCUMENT AND THE INSTALLATION INSTRUCTIONS. ONLY ONE TLS-50, TLS-1, AND TLS-1 CONSOLE CAN BE CONNECTED TO ANY INTRINSICALLY SAFE DEVICES AS DESCRIBED ON THIS SHEET OF THIS DOCUMENT. MULTIPLE SOURCES OF POWER, ADDITIONAL TLS CONSOLES OR OTHER ASSOCIATED APPARATUS, CANNOT BE CONNECTED TO THE SAME INTRINSICALLY SAFE APPARATUS.

16. THE Equipment MUST BE TESTED IN ACCORDANCE WITH IEC 60079-18 OR IEC 60079-26 WHEN USED IN THIS SYSTEM THE EQUIPMENT IS LITIERS TO GROUP II, DIV.

17. GROUP II, DIV.

18. ELECTRICAL DEVICES FOR POTENTIALLY EXPLOSIVE ATMOSPHERES - PART 2: CONSTRUCTION, TEST AND MARKING OF EX D ELECTRICAL DEVICES - PART 26: CONSTRUCTION, TEST AND MARKING OF EX D ELECTRICAL DEVICES.