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REPORT

on

FLASHLIGHTS AND LANTERNS FOR USE IN HAZARDOUS LOCATIONS

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Torrance, CA

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## DESCRIPTION

## PRODUCT COVERED:

**USL - Flashlight, Model 1820 Pocket Sabre for use in Class I, Division 2, Groups C and D Hazardous Locations.**

## GENERAL:

The flashlight noted above is not provided with a lamp disconnect mechanism. For use with two size "C" dry cell alkaline batteries and Cat. No. 1804, ITI Xenon lamp module.

**ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):**

**USL, indicates investigation to United States Standard UL 783, Sixth Edition.**

## MARKING:

The following marking is molded on the external surface of the flashlight case:

1. Listee's name.
2. Catalog number.
3. Designation of the Hazardous Locations as shown in "Product Covered."
4. The designation of the lamp bulb to be used and the number, type and size of batteries to be employed.
5. Temperature Code T2D.
6. The word "WARNING" and the following or equivalent statement:  
"Risk of ignition - Do not open in a hazardous area."

## ASSEMBLY AND CONSTRUCTION DETAILS:

The general assembly of the device is shown on Fig. 1. Certain other subassemblies are shown on additional illustrations. All dimensions are approximate unless otherwise stated.

## FLASHLIGHT MODEL 1820 POCKET SABRE - FIG. 1

1. Shroud - Rubber, shape and dimensions as shown in ILL. 1.  
  
Alternate - Thermoplastic rubber material name Rimflex, Type A/OM55TPE manufactured by Rimpact International Inc.
2. Lens - LEXAN HF1130. A .960 in. deep cup with a minimum thickness of \*not less than 0.066 in. Lens fits into shroud with a snapping motion. See ILL. 2.
3. Lamp Module - Cat. No. 1804, polycarbonate reflector with mirror finish, with Xenon bulb rated 2.6 V, 0.74 A. Lamp module comes fully assembled from vendor, manufactured by Illumination Technology Industries. See ILL. 3.
4. Batter Retainer - 302 Stainless steel. Shape and dimensions as shown. See ILL. 4.
5. Spring (Battery Contact) - 302 Stainless steel. Spot welded to the battery retainer. See ILL. 5.
6. Foam Pad - Uniroyal ethafoam, placed around the battery contact spring. See ILL. 6.
7. Body - ABS. Shape and dimensions as shown in ILL. 7.
8. Clip - Attached to the body by a stainless steel spring clip and pin. Shape and dimensions are as shown in ILLS. 8-10.