The LUU-19A/B flare is the latest in a series of infrared flares introduced by ATK Thiokol for covert target illumination and rescue missions. Designed as a multi-service flare by U.S. military forces, the LUU-19A/B incorporates improvements and modifications that further enhance its performance and reliability. This is the latest version of the LUU-19 family of infrared flares.

**DELIVERY SYSTEMS**

The LUU-19A/B flare is compatible with all standard flare launching systems used on rotary- and fixed-wing aircraft. It can be deployed from LAU-74 cargo aircraft launchers, aircraft wing-mounted racks, and the SUU-25, -42, and -44 series launchers. It can also be hand-launched from aircraft.

A key feature of the LUU-19A/B is the wavelength of illumination. The LUU-19A/B has been developed to illuminate in the near-infrared region of the spectrum. This dramatically enhances the capability of the military's night vision devices used for covert night operations while eliminating the bright illumination that radiates from other flares.
SAFETY

LUU-19A/B infrared is nondetonable and extremely shock resistant. Safety features include a safe position on the timer and the out-of-line ignition system. Flare ignition can only be achieved by removing the timer, pulling out the parachute and applying a 27-kg (60 lb) pull on the ignition lanyard attached to the parachute cable.

OPERATIONAL SEQUENCE

1. Mechanical timer controls freefall drop-time prior to parachute deployment.
2. Release mechanism ejects the timer assembly, which deploys the attached parachute.
3. The load applied to the ignition lanyard by deployment of the parachute activates the ignition system, which ignites the flare candle.
4. The illuminant grain and aluminum case are consumed at the same rate.
5. As the candle burns out, an explosive bolt is initiated, severing one of the parachute attachment cables.

DATA

Operational
Infrared Intensity..........................1.000 W/sr
Light Output (average).......................2.33 x 10^-4 cp
Burn Time.........................................360 sec (6 min)
Parachute Descent Rate.............4.27 m/sec (14 ft/sec) at sea level
Timer Settings.................76 to 3,353 m (250 to 11,000 ft)
Range..............................................
Freefall Delay.................................4.0 to 46.5 sec
Maximum Descent Distance During Burn...1,537 m (5,042 ft)
Dimensions
Length...........................................91.4 cm (36 in.)
Diameter........................................12.4 cm (4.875 in.)
Weight...........................................16.3 kg (36 lb avdp)

For information contact:
ATK Thiokol
P.O. Box 707, M/S N00
Brigham City, Utah 84302-0707
435 863-2699 Tel 435 863-8658 Fax
www.atk.com