

# NITE-SITE, INC.

P. O. BOX 0  
ROSEMOUNT, MINNESOTA 55068

## DAY NIGHT

COMBAT SIGHTING SYSTEMS

September 14, 1979

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RECEIVED

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SEP 20 AM 10 26

U.S. COMMISSION  
MAIL SECTION

30-07686

United States Nuclear Regulatory Commission  
Division of Fuel Cycle & Material Safety  
Material Licensing Branch  
Washington D. C. 20555

Reference Control No. 99709  
License No. 22-13585-02G

To assist in our application, dated April 26, 1979, for amendment of Lic. No. 22-13585-02G, we have enclosed a sample of instructions to be included with the self-luminous gunsights delivered to the general licensees.

Item #2 of your letter, dated July 27, 1979, refers to condition 3.

The current procedure involves the Minnesota Mining and Manufacturing Company to permanently affix the sealed element inside our polycarbonate or steel housing. When this has been done, each completed gunsight is tested and certified not to have more than 0.0005 microcurie of removable radioactive material. The gunsights are then individually packaged and numbered, waiting to be assigned to a particular weapon. Actual handling of the gunsight is minimal during installation on the weapon. Testing following this stage has shown not one gunsight exceeded more than 0.5 milliroentgens per hour at one centimeter using a Nuclear Chicago Model 2612 Side Window Survey Meter.

Based on experience gained over the past several years, we believe, once the sealed element has been permanently installed into the gunsight housing and each has been certified to exhibit not more than 0.0005 microcurie of removable activity, nor have a radiation level in excess of 0.5 milliroentgens per hour at one centimeter, that repeating the above process after attaching the gunsight to a weapon, would not be necessary if the attachment was completed within three months.

In your review of our request for amendment of Lic. 22-13585-02G, please consider deleting the words ("immediately following installation of a sight or sights on a gun") found in condition 3.

Sincerely,

Elliel F. Knutsen  
Director/Licensing

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3 pp.

COPIES SENT TO OFF. OF INSPECTION AND ENFORCEMENT

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INSTALLATION SHOULD BE MADE BY A COMPETENT GUNSMITH

REMINGTON, WINCHESTER AND STEVENS SHOTGUNS WITH STANDARD BEAD SIGHT.

1. Remove factory bead sight.
2. Clean out burrs from screw hole with 3x56 tap.
3. Install Nite-Site with enclosed screw and trim off excess screw length from inside of barrel. DO NOT USE LOCK-TITE ON THREADS.

ITHACA SHOTGUNS WITH BEAD FRONT SIGHT.

Follow above instructions except use 4x36 tap to clean burrs from screw hole.

HI-STANDARD SHOTGUNS WITH BEAD FRONT SIGHT.

Follow above instructions except use 4x48 tap to clean burrs from screw hole. Enlarge Nite-Site housing hole for a No. 4 screw.

ALL OTHER SHOTGUNS NOT MENTIONED ABOVE - INCLUDING RIBBED BARRELS.

1. File off existing bead. Do not remove the sight.
2. Locate Nite-Site and mark and drill with No. 45 drill.
3. Tap with 3x56 tap install Nite-Site with enclosed screw.
4. Trim off excess screw length from inside of barrel.

REMINGTON, HI-STANDARD AND ITHACA SHOTGUNS WITH RIFLE FRONT SIGHTS.

1. Remove factory front sight and replace with Nite-Site steel sight. Installation is done in a conventional manner.

RUGER MINI - 14, M-16 MACHNIE GUNS AND AR-15 RIFLES.

1. Remove factory front sight and replace with Nite-Site steel sight. Installation is done in a conventional manner.

CORRECT SIGHT PICTURE

ALL SHOTGUNS - BEAD SIGHT.

At night when light from the Nite-Site reflects on the barrel, the shooter lowers his eye until a single dot appears. Same principle is used for daylight shooting employing the orange dot.

SHOTGUNS WITH STEEL FRONT RIFLE SIGHT - INCLUDES BEAD SIGHT ON PARKERIZED BARREL.

At night, shooter places eye below receiver, then raises head until front self-luminous dot appears. The instant the dot comes into view, correct sight picture is obtained. With very little practice, the shooter will be able to align dot instinctively.

RIFLES AND MACHINE GUNS WITH PEEP SIGHTS.

At night the self-luminous dot will automatically center itself in the rear peep sight.

MAINTENANCE - TREAT YOUR NITE-SITE THE SAME AS YOU WOULD A RIFLE SCOPE.

Keep grease, oil, solvents, etc. away from the lens portion of the Day/Night Combat sight. Do not use aerosol spray lubricants such as WD-40 on or near the Nite-Site housing. If weapon is to be re-blued, remove the sight. Periodically clean the lens with cotton swabs (Q-Tips).

The use of epoxy is recommended to assist in securing installation of the Bead Day/Night sight. DO NOT USE LOC-TITE PRODUCTS.

SEE OTHER SIDE FOR HANDGUN INSTRUCTIONS.

## HANDGUN

### INSTALLATION INSTRUCTIONS - CORRECT SIGHT PICTURE - MAINTENANCE

ALL DAY NIGHT COMBAT SIGHTS SHOULD BE INSTALLED BY A COMPETENT GUNSMITH.

#### COLT PYTHON, MK III AND RUGER REVOLVERS.

1. Locate and remove front sight pin(s).
2. Remove factory sight and replace with DAY/NIGHT sight unit.
3. Using pin holes as guide and drill size; drill through DAY/NIGHT sight unit and replace pin(s). NOTE: DO NOT ENLARGE EXISTING PIN HOLES.
4. Install rear DAY/NIGHT sight slide in usual manner.
5. Peel off back of NRC label and attach to inside of grip.

#### SMITH & WESSON REVOLVERS WITH RAMP FRONT AND ADJUSTABLE REAR SIGHTS.

1. All final fitting must be done before drilling and tapping.
2. Top of the Nite-Site housing should be just below the top of the steel sight.
3. Spacer provided should be used only if the steel sight is exceptionally high. Modifications to the height could be varied by filing or sanding the spacer.
4. Drill and tap for the 0-80 screw.
5. Apply epoxy to the bottom of the sight housing and turn screw to a snug position. DO NOT OVER TIGHTEN. USE EPOXY ONLY FOR INSTALLATION - DO NOT USE LOC-TITE PRODUCTS.
6. Install rear sight slide in the usual manner.
7. Peel off back of NRC label and attach to inside of grip.

#### SMITH & WESSON MODEL 39.59 AUTOMATICS.

1. Follow same instructions as S & W revolvers with the exception that two 0-80 screws are used. Remember to use epoxy to assist in a secure mount.

#### SMITH & WESSON REVOLVERS WITH PARTRIDGE FRONT AND ADJUSTABLE REAR.

1. Modification is made to the Nite-Site housing to fit the partridge sight by cutting off the front half of housing just ahead of the base.
2. Follow same instructions as S & W revolvers to complete installations.

#### CORRECT SIGHT PICTURE.

In daylight, conventional sights are used. At night, center front dot over rear sight bar. Impact will not change.

#### MAINTENANCE - TREAT YOUR COMBAT SIGHTS AS YOU WOULD A RIFLE SCOPE.

1. Clean weapon in conventional manner; do not use ultra-sonic cleaning machine, etc.
2. Keep grease, oil, solvents and aerosol spray such as WD-40 away from the glass lenses.
3. To clean glass lenses, use a dry cotton Q-Tip.
4. Do not re-blue weapon with DAY/NIGHT sights attached. We suggest when weapon is carried in a holster that keys, etc., are not worn on service belt where they can come in contact with rear DAY/NIGHT sight slide.

SEE OTHER SIDE FOR SHOTGUN, RIFLE AND MACHINE GUN INSTRUCTIONS.