

# SMART BOX ALARM SYSTEM GENERAL INFORMATION AND CLASSIFYING VEHICLES/TRAILERS

The following is required for all vehicles/trailers that are to be included in the SMART Box Alarm System:

Vehicles/trailers must belong to the Emergency Services unit.

Vehicles/trailers must not be borrowed from any other village/city department.

All vehicles/trailers must display an "M" license plate.

The following are current vehicle/trailer classifications:

[INCIDENT COMMAND CENTER \(Primary Only\)](#)

[COMMUNICATION VAN, TRUCK OR TRAILER \(Primary Only\)](#)

[HIGH INTENSITY LIGHT UNIT, TRUCK OR TRAILER \(Primary Only\)](#)

[LIGHT UNIT, TRUCK OR TRAILER](#)

EQUIPMENT TRANSPORT/SUPPORT

ADMINISTRATIVE, COMMAND AND CONTROL (Director's & Deputy Director's Vehicle)

TRAFFIC AND CROWD CONTROL

RESCUE TRUCK

SPECIAL EQUIPMENT

MISCELLANEOUS

No vehicle may be classified as either a primary or secondary in more than one classification. A unit can not be a Primary Rescue Unit and a Primary High Intensity Light Unit. A decision must be made to classify the unit in either Primary Rescue or Primary High Intensity Light Unit. The other will be a secondary classification.

Due to Illinois State Motor Vehicle laws, no vehicle may only operate yellow overhead lights or strobes.

All vehicles must have a VHF Mobile Transceiver mounted which operates on (ESMARN) Emergency Services Mutual Aid Radio Network 155.025 and (IREACH) Illinois Radio Emergency Assistance Channel on 155.055.

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# **SMART STANDARDS FOR SMART BOX ALARM SYSTEM**

## **MINIMUM STANDARD REQUIREMENTS FOR VEHICLES CLASSIFICATION**

### **INCIDENT COMMAND CENTER**

#### **Primary Classification:**

1. Vehicle must have a minimum of three (3) operating positions.
2. The (3) radio transceivers must be capable of operating simultaneously in the VHF range of 150 to 160 MHz
3. One (1) radio transceiver must be capable of operating in the UHF range of 460 to 480 MHz.
4. Minimum transceiver power output shall be 10 watts.
5. Vehicle must be a walk in type bus, or van allowing individuals to stand up.
6. Vehicle must be heated and have air conditioning.
7. Vehicle must have an on board generator capable of operating all on board equipment.
8. Minimum operating time without refueling is eight (8) hours.
9. All radio equipment shall have battery backup.

### **COMMUNICATIONS UNIT, TRUCK, VAN OR TRAILER**

#### **Primary classification:**

1. Vehicle must have a minimum of three (3) operating Positions.
2. The (3) radio transceivers must be capable of operating simultaneously in the VHF range of 150 to 160 MHz
3. One (1) radio transceiver must be capable of operating in the UHF range of 460 to 480 MHz.
4. Minimum transceiver power output shall be 10 watts.

5. Vehicle must have an on board generator capable of operating all on board equipment or electrical connections for an auxiliary generator which must be furnished with the unit.
6. Minimum operating time without refueling is eight (8) hours.
7. All radio equipment shall have battery backup.

## **HIGH INTENSITY LIGHT UNIT, TRUCK OR TRAILER**

### **Primary Classification:**

1. Two (2) each, 1000 watt or better, high intensity discharge (HID) metal halide lights mounted in NEMA rated flood fixtures at twelve (12) feet or higher above ground.
2. Two (2) each 500 watt quartz portable unit.
3. 150 feet minimum, extension cord at least 14 gauge or better.
4. Associated plugs, connectors, etc. as required.
5. One (1) 6 outlet surge strip.
6. Generator, as required to power all lights at once.
7. Minimum operating time without refueling is six (6) hours.

### **Note:**

Units should be equipped with Ground Fault Circuit Interrupters (GFCI) either by circuit breaker, receptacle or cord set.

Items 2, 3, 4 and 5 not required for trailer.

## **LIGHT UNIT, TRUCK OR TRAILER**

### **Primary Classification:**

1. One (1) each 1000 watt or better high intensity discharge (HID) metal halide light mounted in NEMA rated flood fixture at twelve (12) feet or height above ground.

2. Two (2) each 500 watt quartz portable unit.
3. 150 feet minimum, extension cord at least 14 gauge or better.
4. Associated plugs, connectors, etc. as required.
5. One (1) 6 outlet surge strip.
6. Generator, as required to power all lights at once.
7. Minimum operating time without refueling is six (6) hours.

**Secondary Classification:**

1. Two (2) each 1500 watt quartz or three (3) each 1000 watt quartz mounted in NEMA rated fixtures. Total wattage is 3000 watts of quartz light.
2. Two (2) each 500 watt quartz portable units.
3. 100 feet minimum extension cord at least 14 gauge or better.
4. Associated plugs, connectors, etc. as required.
5. One (1) 6 outlet surge strip.
6. Generator, as required to power all lights at once.
7. Minimum operating time without refueling is four (4) hours.

**Note:**

Units should be equipped with Ground Fault Circuit Interrupters (GFCI) either by circuit breaker, receptacle or cord set.

Items 2, 3, 4 and 5 not required for trailer.