

CIVIL AIR DEFENSE WARNING SYSTEM
(CADW)
PUBLIC SIGNAL CONTROL CIRCUIT
(SIRENS)

1.00 GENERAL

1.01 This section gives general information relating to the Public Signal Control, Civil Air Raid Warning System at control points using the white warning signal to denote stop.

1.02 It is reissued to:

- Delete reference to the (Y) Yellow Alert Signal.
- Up-date instruction card reference (except Nevada).
- Include a warning when changing an instruction card.
- Include ordering information for instruction cards.

2.00 DESCRIPTION

2.01 Public audible signals (sirens) are installed by the subscriber and connected to relays furnished by the Telephone Company. These relays are connected to lines terminating in the public signal control unit at the central office (CO).

2.02 The public signal control unit at the CO is designed to recognize two degrees of alert transmitted to sirens only.

2.03 The red signal (take cover) is the warbling tone. The white signal (stop) releases the equipment.

2.04 The standard Bell & Lights station dial assembly for Civil Air Defense Warning Systems are used with the Public Signal Control Circuit. Bell & Lights finger wheel and face plate furnished with the dial assembly cannot be used for the public siren control point. Order the finger wheel and face plate separately and replace the other assembly.

2.05 Stations will be "protected" by a continuous line test unit in the CO, so that there is an automatic self test on these station lines.

2.06 At siren locations a KS-16626 L1 relay set should be used when mounted indoors or in a weather-proof box.

3.00 INSTALLATION

3.01 After the installation of the KS-16626 L1 relay set by the Telephone Company, the subscriber should arrange to have any power wires, etc., that may be required, installed by an electrician.

3.02 The KS-16626 L1 relay should be installed as described in Section 463-110-400.

3.03 At station lines under continuous test, the KS-8512, List 6A resistor equipped with number 241 terminals, should be connected across line as shown in Section 480-210-400. Insulate exposed leads of the resistors with tape or tubular insulation.

3.04 The 449B capacitor in the KS-16626 L1 relay sets has failed in several cases where the line is under continuous test. Therefore, they should be replaced locally with a more reliable oil filled DX-1027 capacitor. The DX-1027 capacitor includes a CP54B1EG504K capacitor, the necessary leads and screws, and mounting board to make the replacement in the field.

4.00 TESTS

4.01 Any changes of equipment or change of location will require complete testing of all service features before the order is OK'd.

4.02 With the subscriber equipment separated from the control relay, 20-cycle ringing current will be applied to the circuit by the test desk. The field employee will verify that the relay operates satisfactory. Restore subscriber's equipment to the circuit.

CAUTION: Follow instructions as outlined on Warning poster at each station location.

SECTION 480-210-901PT

5.00 INSTRUCTION CARDS

5.01 Originating Station Form, P-2821 shall be provided at each originating station location. (See Fig. 1).

5.02 Order instruction cards by form number. Order as standard, nonstock on a stationery requisition as follows:

(Quantity) Form P-2821.

5.03 Type in the day and time of test warning.

CAUTION: This information must be obtained from the Director of Civil Defense of the county where the siren system is being installed.

P-2821 4-68
(480-210-901PT)

Civil Air Defense System—Public Signals (Sirens) Originating Station

ACTUAL WARNING

BEFORE DIALING ANY WARNING DIAL "STOP."

IF WARNING IS RED:

1. Dial "R" twice. Wait 3 minutes. Dial "STOP."

IF COLOR OF WARNING IS CHANGED while color signal being transmitted, immediately dial "STOP," then dial new color as described above.

TEST WARNING

* SEND

1. DIAL "STOP."
2. Dial "R" twice.* Wait _____ seconds. dial "STOP."

NOTE:—In the event of an ACTUAL "Red warning during a test, allow system to complete the test, then dial "Stop," and immediately dial "R" twice. Then follow instructions under "Actual Warning." Any deviation from above will be covered by Special Test Instructions.

IF WRONG COLOR is dialed, or if finger slips while dialing, IMMEDIATELY dial "STOP," then dial correct color as described above.

DO NOT force or retard the rotation of the dial.

KEEP COVER LOCKED. Key should be used to open cover and MUST be used to lock cover; however, if key is not readily available, cover can be forced open by hand.

TO REPORT TROUBLE CALL _____

This is originating station CADW Public Signals (Sirens) _____

Approved _____
Director of Civil Defense

* THE TIME AND DAY OF TEST WARNING MUST BE OBTAINED FROM THE DIRECTOR OF CIVIL DEFENSE OF THE COUNTY WHERE SIRENS ARE LOCATED

