

SAC, Philadelphia (92-1027 Sub F)

March 9, 1965

~~1 - Mr. McAndrews (Rm 1529)~~

Director, FBI (92-6054)

JUNE

~~1 - Mr. Conrad~~

1 - Mr. Millen

1 - Mr. Baker

1 - Mr. Corbett

1 - Mr. Walter

LA COSA NOSTRA
PHILADELPHIA DIVISION
AR; CONSPIRACY

ReBulet 2/11/64 and telephone call from Supervisor Dave Breen and SA John R. Pearce, of your office, in captioned matter. The telephone cable information, previously supplied, and technical data telephonically furnished have been reviewed in the Laboratory. The Laboratory's technical observations are attached for study by the sound-trained personnel of your office.

You should, after a review of the attached by your sound-trained Agents, advise the Bureau the technique you propose to install in the target area. The telephone instrument you desire altered should be sent to the Laboratory for installation of the disguised MISUR equipment. In scheduling the installation date, a minimum of three weeks, after receipt of the equipment in the Laboratory should be allowed for the packaging of the line equipment and altering the instrument. E

If, in your opinion, you feel on-the-spot technical assistance of the Laboratory is needed, you should so indicate in your reply.

This technical data is for use by your office in evaluating the installation possibilities in this case and does not constitute authority to make the installation. Authority to install must be obtained separately.

Enc. (2)

REC-16

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- Tolson _____
- Belmont _____
- Mohr _____
- DeLoach _____
- Casper _____
- Callahan _____
- Conrad _____
- Felt _____
- Gale _____
- Rosen _____
- Sullivan _____
- Tavel _____
- Trotter _____
- Tele. Room _____
- Holmes _____
- Gandy _____

CKC:bwd (9)

ENCLOSURE

MAILED 6
MAR - 9 1965
COMM-FBI

MAR 10 1965 MAIL ROOM TELETYPE UNIT

March 9, 1965

TECHNICAL DATA FOR A PROPOSED INSTALLATION OF MISUR
COVERAGE AT 902 SOUTH EIGHTH STREET, PHILADELPHIA, PA.

The telephone cable information, previously supplied, and technical data telephonically furnished have been reviewed. Two installation techniques are submitted for your consideration.

1. BIRD. This unit employs the same principle as the BAT described on page 27, Part I, of the Handbook of Technical Equipment. The microphone unit is small enough to be concealed within the network of a Western Electric 500-type telephone instrument. It is connected across the telephone line at all times, drawing three milliamperes from the "quiet" telephone battery source your telephone company contact agreed to supply to the target line. This unit is not operative when the telephone is in use, therefore the current drain should not affect normal telephone operation. However, before installing this device, you should check with your sources in the company to determine if this three milliamperes drain will operate central office line equipment, particularly to determine whether it will be reported by the automatic line-checking (testing) equipment.

As with the BAT, the intelligence picked up by the microphone cannot be heard by use of a linesman's test set or with ordinary headphones. Relatively complex equipment is required to recover the intelligence.

The recovery equipment is in a cylinder measuring 1" in diameter and 15" long. This equipment should be mounted on the pole or along the cable in the rear of 906 South 8th Street. The target telephone line should loop through the recovery unit by connecting a pair of wires from this unit to Binding Post 8 and another pair of wires from this unit to the drop line serving the target instrument. A third pair of wires from the recovery unit should be connected to the leased line back to the central monitoring point. The microphone coverage (signal) is audible between the recovery unit and the monitoring plant and can be read with a pair of headphones or a linesman's test set.

ENCLOSURE

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① A Regulated Power Supply will be connected to the leased line in the monitoring plant to furnish operating current for the recovery unit and to reamplify the MISUR signal. The transmission range for the output of the recovery unit should be no more than five wire miles. If the transmission range exceeds this limit, it may be necessary to install the preamplifier at a multiple point, such as at the corner of South 8th Street and Washington Avenue. If the multiple point is used, provision must be made for the installation of a Regulated Power Supply in a secure place accessible for changing batteries or one with 110-volts alternating current for an AC power supply. A second leased line will be used for transmitting the output from the Regulated Power Supply back to the monitoring plant.

In summary, if the multiple appearance is used for this installation, one pair of wires must be reserved or leased to provide a transmission path from the recovery unit to the multiple appearance and a second leased pair is used for transmission of the preamplified signal output of the Regulated Power Supply to the field office monitoring plant.

2. Zener Activated Microphone (ZAM). This technique employs the same installation principle as the Single-Pair Microphone-Telephone (SPMT) technique described on page 181, Part I of the Handbook of Technical Equipment. A ZAM unit may be installed in the network of a Western Electric 500-type telephone set instead of the altered condenser can described in the manual.

If this technique is employed, a secure area, either in close proximity to the terminal box in the rear of 906 South 8th or at the multiple appearance at Washington Avenue and South 8th Street, where the target telephone line can be looped through a concealed automatic SPMT unit. The automatic SPMT unit is contained in four cases as follows:

A. An SPMT switching unit measuring 7 5/8" wide, 8 1/4" high and 10" deep. This unit automatically transfers the target line from "Telephone" to "Microphone" immediately when the hand piece is removed from the cradle. Approximately 7.5 seconds after the hand piece is restored to the cradle (hung up) this unit will automatically switch to the "Microphone" mode for MISUR coverage. Because this unit is position sensitive it should be operated in the vertical position at all times.

B. A battery supply measuring 6" wide, 4 3/8" high and 5" deep contains the batteries to operate the microphone, current regulating

devices to prevent excessive current damaging the microphone and a meter to measure microphone current. It is recommended that the batteries in this unit be replaced with fresh batteries no less than once each a week. The SPMT unit must be in the "OFF" mode while the batteries are being changed.

C. Remote control tone switching unit. This unit, in a case measuring 7" wide, 5 3/4" high and 15" deep, is used to turn the SPMT unit on and off. Included in this unit is a transistorized audio amplifier to bring the MISUR signal up to the normal telephone line transmission level.

D. Notch filter. This unit measures 3 3/4" wide, 5 3/4" high and 5 1/4" deep. This is used to prevent certain voice frequencies from activating the tone equipment described in C.

The equipment, described in A-D, above, must be placed in a secure room or space where the target line may be looped through the SPMT unit. A 110-volt source at 3 amperes must be available for the equipment. The equipment should be placed in a dust-free enclosure accessible for servicing.

The steps for installing this technique are as follows:

- a. Substitute an altered telephone for the instrument now in the target area.
- b. Have a spare cable pair available for service from the remote plant to the terminal box in the rear of 906 South 8th Street. If a secure area is selected in close proximity to 906 South 8th Street, it will not be necessary to provide a cable pair for service between the SPMT unit and the target line as the target line may be looped through the SPMT unit via a four-conductor drop line.
- c. Set up the remote plant, as set forth above, looping the target line from Binding Post 7 at 8th Street and Washington Avenue, through the SPMT equipment to the spare cable pair terminating in the rear of 906 South 8th Street.
- d. Connect the cable pair running to the monitoring plant to the output of the automatic SPMT unit.

e. Test the continuity of the target telephone service and, if satisfactory, transfer the drop wire serving the target instrument from Binding Post 8 to the pair described in b.

Complete wiring diagrams and detailed installation procedures will accompany the equipment.

The ability to install either of the above-described techniques is contingent upon the substitution of an altered instrument in the target area and making certain changes at the terminal box at the rear of 906 South 8th Street. The BIRD will require a full-time "quiet" battery supply from the telephone and the installation of a recovery unit at the working appearance for the target instrument. The ZAM will require no change in the telephone battery source but will need a small secure area in which the automatic SPMT equipment may be concealed. It is not necessary that this SPMT equipment be in the immediate area of the target instrument. The only change required at the working appearance for the target instrument is to shift the drop wire from the assigned Binding Post to a new Binding Post described in 2b.

Another factor to consider in this case is the matter of readable signal. The MISUR signal between the BIRD and the recovery unit is not readable with headphones or a linesman's test set whereas the signal level of the ZAM is readable with headphones or a linesman's test set.