

Expand facilities at AT&T relay station

Feb. 17, 1966 📞 *The Windsor Review* (Windsor, Missouri)

Work has been completed on an expansion of facilities at the American Telephone and Telegraph Company's radio relay station on Route WW north of Windsor. Two new horn-shaped reflector antennas have been added to the steel station tower, bringing the total to six.

Two new stations have been constructed in this area, one near Deepwater and another near Walker. The stations are links in a 22-station route between Frick, Colorado, and Windsor. After leaving Colorado, the route enters Kansas, dips into Oklahoma, then jogs back up to Kansas and on into Missouri.

With the start of service on this new section, a trans-continental radio relay route between New York and Oakland, California, is complete.

In the radio relay method of transmission, message-carrying microwaves are received and transmitted by antennas atop the steel tower which stands beside each station building.

This route will have an initial capacity of 1,200 circuits and will carry telephone calls, teletypewriter messages, data, and radio and television broadcasts across the country.

Since the microwaves travel in a straight line, rather than follow the curvature of the earth, the stations along the route must be located about 30 miles apart to maintain a direct line-of-sight transmission path.

As the microwaves travel from tower to tower, their strength diminishes. The complex electronic equipment housed in each station amplifies the waves back to their original strength before they are sent on to the next station, where the process is repeated.



TESTING NEW EQUIPMENT — *LeRoy Miller, AT&T equipment maintenance supervisor at the company's station north of Windsor on Route WW, and Stanley York, from the Dover office near Waverly, are shown testing some of the new equipment that has been added to the station. York is talking to the company station in Burbank, Oklahoma, attempting to open an initial radio line to that facility. The television screen at the top of the picture is used for visual aid in opening the line. Two men, Miller and Barney Walker, equipment maintenance men, reside in Windsor. Mr. York is married to the former Reta Scrimager, daughter of Mr. and Mrs. Otis Scrimager, Rt. 3. (REVIEW photo)*

The AT&T facility here was constructed in September 1964. Two permanent employees including LeRoy Miller, equipment maintenance supervisor, are working at the station, plus three additional employees loaned from other stations helping install the new equipment.

All long distance traffic from large metropolitan areas is carried through the Windsor station as well as government communications. In the future it is possible that network television programs will also come through the station.

Also under the supervision and maintenance of the Windsor facility are three smaller towers near Cole Camp, Deepwater and Nevada.

According to Miller, several more men will be hired as more equipment is installed.

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Transcribed 12-31-2024 by Garrett Fuller

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