



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

1 CENTRAL PARK PLAZA • NEW BRITAIN, CONN. 06051

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PETITION NO. 87

October 18, 1982

Gloria Dibble Pond, Colin C. Tait, and Christopher S. Wood met Southern New England Telephone Company (SNETCO) representatives to review the site work proposed in Petition No. 87. The work entails replacements of existing microwave equipment with new equipment, in a manner similar to that reviewed by the Council in Petition No. 79.

At the Canaan central office a twelve-foot parabolic antenna would replace an existing ten-foot parabolic antenna, and the existing antenna support would be replaced by a galvanized steel mount. Although power densities are calculated to increase at the roof edge and at the nearest building, the new levels are still only half of the strictest exposure standard known, the former old Russian standard of 1 microwatt per square centimeter which has been relaxed to five microwatts per square centimeter. This standard is applicable to workers and the general population in Russia and may be compared to the proposed American National Standards Institute standard of five milliwatts per square centimeter in the 1.5 to 100 Gigahertz frequency range for an indefinite exposure time. Five milliwatts is one thousand times greater than five microwatts. Debate about tolerable exposure levels continues, according to Dick Kischel of SNETCO, who provided some recent documents on the subject. (These are available in the Council office.) However, it is apparent that the exposure limits calculated for this facility do not approach the most stringent proposed or existing standards.

At the Norfolk facility, two tower-mounted periscopic antennae would be replaced by two parabolic antennae. Some tower reinforcements is likely to be necessary, and the existing guys and guy anchors would need to be replaced. Power density calculations show a decrease in exposure levels attributable to improved antenna technology and the reduction of scattered microwave signals. No new clearing or road construction would be required at the site; the existing equipment building would be refurbished but not enlarged.

Christopher S. Wood
Executive Director
10/19/82