

DESIGN STANDARD FOR ASSISTIVE LISTENING SYSTEM

Purpose:

The purpose of this Standard is to ensure consistency in the provision of assistive listening devices through-out the District for convenience of users, and service/maintenance by the District.

Design Standard:

The assisted listening system shall be a Frequency Modulated Radio Transmission system assigned by the FCC exclusively for low power assistive listening systems. The system shall consist of rack-mounted transmitter, portable receivers, antenna and earphones. All equipment shall be standard catalogued products of a single manufacturer. System and components shall comply with CBC code requirements for same.

Stationary Transmitter

- Stationary FM transmitter capable of broadcasting on 57 channels
- SNR of 80 dB or greater
- Output power adjustable to quarter, half, or full
- Channel tuning capable of being locked
- Capable of broadcasting o both wide and narrow band channels
- Audio frequency responses of 50 Hz to 15k Hz, ± 3 dB at 72 MHz; or of 50 Hz to 10k Hz, \pm dB at 72 MHz
- Two mixing audio inputs. Audio processor that is capable of automatic gain control and limiting.
- Listen Technologies model LT-800-072-01; or Williams Sound model T45
- Rack mount kit: Listen Technologies model LA-326; or Williams Sound model RPK 005

Portable Receivers

- Capable of receiving on 57 wide band channels with a SNR of 80dB or greater
- Capable of being locked on a single channel
- Capable of seeking channels
- Adjustable squelch
- Audio frequency response of 50 Hz to 15 KHz, ± 3 dB
- Stereo headset jack that allows user to plug in either a mono or stereo headset
- LCD display that indicates channel, battery level, low battery, battery charging, and RF signal strength
- Function in both DX and Local mode
- Operate off of 2 AA batteries. Include automatic battery charging circuitry for recharging of NiMH batteries.
- Listen Technologies model LR-400-072; or Williams Sound model R38

Receiver Accessories

- Charging carrying case for up to 8 units: Listen Technologies model LA-324; or Williams Sound model CHG 3512 PRO
- Ear speakers (per receiver): Listen Technologies model LA-164; or Williams Sound model EAR 022
- Neck loop that wirelessly connects to hearing aids equipped with a “T” coil: Listen Technologies LA-166; or Williams Sound model NKL 001
- NiMH rechargeable batteries: Listen Technologies model LA-362; or Williams Sound model BAT 026-2

Remote Antenna

- Able to transmit signals at 72 Mhz
- Mounted to a BNC wall plate: Listen Technologies LA-123; or Williams Sound model ANT 028
- RG58 coax cables with BNC connectors, length as required

Wall Plaque

- Sign(s) indicating equipment available for the hearing impaired per ADA requirements. May be provided by signage Vendor or equipment Vendor.
- Listen Technologies LA-304 ADA Access Compliance signage kit; or Williams Sounds IDP 008

Approved Manufacturers:

Listen Technologies

Williams Sound

Substitutes Allowed:

No substitutions allowed. (Reviewers, confirm this is College DSTM standard).

Associated Design Standards and Construction Specifications:

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