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Prepared for Sorensen Television Systems
KPPI-LPTV, Garapan-Saipan, Northern Mariana Islands
Facility ID: 125202
Channel: 7

Antenna Description

The existing antenna is a Jampro JHD-HV2, mounted at 24.0 meters above ground level on an existing guyed lattice tower, near the top of Mount Tapochau, on the island of Saipan in the Northern Mariana Islands. The tower bears Antenna Structure Registration Number 1008506, and is shared with the following licensed stations:

KPXP (FM), 54766, Garapan-Saipan
KORU (FM), 172880, Garapan-Saipan

The KPPI-LP antenna is fed with 170 feet of Andrew AVA5-50 coaxial cable. This antenna consists of two panel-style radiators, one oriented 22° True and the other 202° True. They are fed from a two-way power divider such that each antenna receives half of the available RF power. Each radiator consists of two horizontal dipoles placed in front of a reflective screen, spaced $\frac{1}{2}$ wavelength apart, vertically.

The manufacturer describes the antenna horizontal plane radiation pattern as a narrow cardioid, and published data gives the antenna gain as 3.2, or 5.1 dB.

The transmitter power output is 0.293 kW. The antenna input power is 0.244 kW. The effective radiated power is 0.780 kW.