



WILLIAMS SOUND®
HELPING PEOPLE HEAR

To whom it may concern,

The Williams Sound, LLC. T27 transmitter is an FM transmitter, operating on 17 selectable channels in the 72.1 to 75.9 MHz band under FCC part 15.237 in the US, and RSS210:2010 in Canada. The transmitter has been modified to comply with the changes to 15.237 which take effect in July, 2016 in the US. We consider this a Class II permissive change. Our FCC ID number for this equipment is CNMT27, and our Industry Canada number is 1360A-T27. The Changes are not required in Canada, but in our opinion we need to demonstrate continued compliance to Industry Canada as well as the FCC.

We are seeking acceptance of our compliance in order to continue to market our equipment in the US and Canada. Additional documentation will be provided to demonstrate appropriate compliance to the aforementioned regulations.

The changes we are making to the T27 fall into 3 classes: 1. A re-design of the RF match and filter network to increase the suppression of carrier harmonics, with layout and value adjustments to the VCO, 2. Loop filter value adjustments necessitated by the VCO changes, and 3. The replacement of a few obsolete parts with equivalents we can actually get. We had the previous version of the unit pre-scanned earlier in the year and found the VCO leaked some harmonics around 900MHz. We cleaned this up by improving the layout. The audio response to modulation was then discovered to have changed, and the loop filter was adjusted to compensate. The user should see no difference between this version and the last.

Sincerely,

Lawrence J. Herrington

Principal RF Engineer

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