



August 17, 2004

This report is in support of an application by Technalogix Ltd. for certification of transmitting equipment used for VHF Band III television systems (170-230 MHz). Specifically, Technalogix is requesting certification of the Technalogix TXV-1000 VHF Band III television transmitter.

The TXV-1000 Band III supplies a 1000-watt peak video signal in addition to 10% aural power on any of the VHF television channels 7 through 13. Additionally, the control system allows the user to run 110% of rated power (1,100-watts peak) before the overdrive monitor shuts the system down. The video and audio are amplified with a common amplifier chain.

Tests were conducted on production models of the equipment on location at Technalogix:

#4, 8021 Edgar Industrial Place  
Red Deer, Alberta  
Canada T4P 3R3  
403.347.5400 ph  
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All tests were carried out on representative channels in the VHF Band III in accordance with FCC Part 74. The results in the attached documentation show that the equipment meets or exceeds the required specifications.

Included with the documentation is:

- Drawing of the FCC label that will be attached to the equipment
- Attestation statement
- Test report
- RF exposure statements
- Technalogix user manual. The user manual includes block diagrams of the various systems and sub-systems, schematics and printed circuit board component outlines for the amplification and control sections, specifications, and construction photos.

The emission designators for Part 74 transmitters are 5M75C3F (for visual) and 250KF3E (for aural).

Should you have any questions, please do not hesitate to contact Technalogix:

Bob Gullon, President and CEO  
[bob@technalogix.ca](mailto:bob@technalogix.ca)

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Signature: Robert C Gullon

Richard Luddick, Testing Manager  
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Signature: Richard Luddick

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Signature: Aaron Sivacoe



Please note that the following sections are included in the instruction manual and are not separate sections:

- a. Tune-up Procedure
- b. Block Diagrams
- c. Schematics
- d. Specifications
- e. Operation Description



# *Technalogix Ltd.*

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## **RF EXPOSURE STATEMENT**

A Narda 8616 radiation Meter with suitable probes was used and there was NO measurable radiation even at a distance of 0.5 meters from the transmitter cabinet

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Signature of the Testing Manager  
Richard Luddick