

EXHIBIT 2-U

Docket No. DCA-08-MR009

**NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C. 20594**

Handset Radio Operational Testing



Wireless Solutions
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September 24, 2008

Metrolink
Signals & Communications

Attn: Howard Cox

RE: Job Number 900124
Radio Operational Testing – Metrolink’s Chatsworth Incident 09-12-08

Mr. Cox,

Upon receipt of the Motorola Portable Radio HT 1000, Serial Number 402TAJ0289 Z, one of our Bench Technicians, William Chandler, under my immediate supervision, conducted two complete evaluations of the unit. His findings are provided in an attached Spread Sheet on a per Channel Basis.

Subsequently, due to the nature of the request for evaluation of this Radio, I conducted an additional independent complete test of the unit to confirm his findings. My results mirror William Chandlers.

Test 1:

This unit was tested initially using a variable power supply set for 7.5 VDC. The Service Monitor used to conduct the Test is a Model IFR COM-120B.

Test 2:

This second test used the Battery provided and attached to the Radio after being fully charged overnight using the Battery Charger provided. The Service Monitor used to conduct the Test is a Model IFR COM-120B.

The results of both tests indicate that the Radio itself is working properly with minor deviations from specifications in Frequency Error. The Frequency Error, in our opinion, would not have caused a communications failure.


The results of the second test indicate that the Battery, after being fully charged initially for testing, as well as being fully Charged a second time prior to my personal testing, does not provide adequate capacity to fully operate the Radio. The Battery loses capacity over a short, (minutes), period and reduces the Radio Transmit Power dramatically. Further, within three to five Push To Talk Transmissions into our Service

Monitor, it was noted that the Low Battery audible warning indicator was active at the end of each subsequent Push To Talk.

Our conclusion, if requested, would be that, although the Motorola Radio itself is fully functional, lack of Battery capacity could have been a cause of interrupted communications service from this Radio, (once removed from the Charger, and Transmitted from), in a shot period of time.

Please feel free to contact me with any questions you may have, or if you require any additional information.

Respectfully submitted,


Clifford A. Zwarkowski
General Manager



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METROLINK JOB NUMBER 900124
MOTOROLA HT 1000 S/N: 402TAJ0289 Z

CHANNEL NUMBER	TRANSMIT FREQUENCY	FREQUENCY ERROR	DEVIATION	TRANSMIT POWER	CTCSS/DCS	RECEIVE FREQUENCY	RECEIVE SENSITIVITY
1	161.415	-0.441	4.64K	4.79W	CS	161.415	-121.6
2	160.815	-0.443	4.61K	4.80W	CS	160.815	-121.7
3	160.545	-0.439	4.61K	4.74W	CS	160.545	-121.7
4	160.560	-0.449	4.71K	4.74W	CS	160.560	-121.6
5	160.485	-0.451	4.68K	4.76W	CS	160.995	-121.3
6	161.385	-0.428	4.52K	4.76W	411/226	160.500	-124.0
7	160.515	-0.463	4.60K	4.74W	CS	160.515	-121.5
8	160.650	-0.459	4.64K	4.74W	CS	160.650	-121.5
9	161.550	-0.447	4.64K	4.73W	CS	161.550	-121.4
10	161.190	-0.451	4.64K	4.77W	CS	161.190	-121.5
11	161.325	-0.452	4.67K	4.79W	CS	161.325	-121.2
12	161.355	-0.447	4.62K	4.74W	CS	161.355	-120.9
13	161.295	-0.458	4.63K	4.74W	CS	161.295	-121.3
14	161.445	-0.452	4.63K	4.74W	CS	161.445	-121.2
15	160.905	-0.461	4.62K	4.77W	CS	160.905	-121.2
16	N/A	N/A	N/A	N/A	CS	165.400	-121.2