

**EXHIBIT**  
**FCC On-line Form 442**  
**NECESSARY BANDWIDTH DESCRIPTION**

Simple calculation using the minimum 400 nanosecond pulse/code cell durations yields:

| <b>Signal Level<br/>Below Peak</b> | <b>Bandwidth</b> |
|------------------------------------|------------------|
| -3 dB                              | 2.2 MHz          |
| -10 dB                             | 3.7 MHz          |
| -20 dB                             | 12.7 MHz         |

These values have been confirmed by measurement.