1.) Parabolic Radios

Serial #s 2K06100 and 2K06101
Model #s 622-0800H-SM, 622-0800L-SM

2.) Text to detail difference between OC12 and OC3

Data Rate for OC3 is 156Mb/s, OC12 is 622Mb/s
Fiber optic transceiver model numbers are different for different data rates.

3.) Operational Technical Description (from ITS test plan):

The device is a broadband, full duplex, point-to-point digital radio capable of different modulation bandwidths. All versions consist of an integrated transmitter and receiver each feeding an antenna. The device operates in the frequency band of 59.0 to 64.0 GHz.

4.) Exercise Routine during testing

The GigaLink radio transceivers were tested in both operational modes.

Mode 1; No modulation of carrier signal for peak power tests.
Mode 2; Modulation of carrier signal for average power tests.

5.) Antenna Gain and Dimensions

Patch Antenna Assy. = (2) 3" x 5" patch arrays (TX/RX); Gain = 30dBi

13" Diameter Parabolic = 13" Diameter Parabolic Reflector = 40dBi *

*13" parabola utilized only on diplexed radio with lower antenna signal injection level

6.) 15.255 Compliance Topics

- **Compliance with "Prohibition of Phase locking Inputs"**

The Harmonix GigaLINK radio product contains no external or user available ports for phase-locking inputs. In addition, each radio module is a sealed assembly affording no user adjustable/configurable elements. Transmitter frequency is set during assembly, identified by labeling and cannot be changed.

- **Transmitter Identifier Requirement Exemption**

Transmitter Identifier Exemption statement per enclosed MS/Word file "FCC Identifier.doc"
And attached copy of "FCC Letter.pdf".

7.) $45 Application Fee included in single payment check (enclosed)

8.) Letter of Agency "Letter of AgencyDR.doc" (enclosed)

9.) Taxpayer ID # 043-214-366

10.) $940 Certification fee included in single payment check (enclosed)

11.) Name and Title of Individual to receive Authorization

Mr. Robert Phaneuf, V.P. Engineering

12.) Applicant Name and Address:

Harmonix Corp.
1755 Osgood St.
N. Andover, MA 01845 USA

Name and Address of Manufacturer

Harmonix Corp.
1755 Osgood St.
N. Andover, MA 01845 USA

13.) Requested FCCID #

(Grantee Code) followed by numeric string "00-00-30-30"

14.) Label Files enclosed in "RadioLabels.pdf"

15.) Label Location Sketch enclosed in "Outline Drwg.doc"

16.) Technical Description of device with timing statement

The Harmonix GigaLINK radio product operates in two modes; with modulated carrier and without modulated carrier. All frequencies are derived from a single 20MHz crystal oscillator as shown in the enclosed block diagram.

17.) Block Diagram/Schematic Diagram ((2) files enclosed "Patch Pictures.jpg"and Parabola Pictures.jpg")

18.) Installation/Operation Manual (enclosed "Installation ManualITS.doc")