

**Information about the Applicant**

<b>Company Name</b>	Music Sciences
<b>Grantee</b>	Music Sciences
<b>Address</b>	1590 Murphy Pkwy
<b>City, State, Zip</b>	Eagan, MN 55122
<b>Job Number</b>	MUSI0002
<b>Model</b>	2600T
<b>FCC ID</b>	TFA2600T
<b>Agent</b>	Northwest EMC, Inc.
<b>Approval Type</b>	Original
<b>Equipment Class</b>	DTS Digital Transmission System
<b>Rule Part</b>	15.247DSSS

**Overview**

This application is for the certification of Medea Design Group's 2600T transmitter, FCC ID: TFA2600T. It operates in the 5725 - 5850 MHz band with a peak output power of 16.2 mW. It is a DSSS transmitter that utilizes 2 audio channels. The device is housed in a plastic enclosure. It operates from 12VDC, 500mA. It is connected to the AC mains indirectly through an AC Adapter. The end use of the radio will be mobile. Per FCC definition, the antenna will be 20cm or further from the head or torso of the user or nearby persons. The radio utilizes a 6dBi log periodic antenna, mounted on the printed circuit board. It is wired directly to the RF module; there are no connectors. This configuration satisfies the requirements of 47 CFR 15.203. The technical reports and exhibits demonstrate compliance with FCC rules 47 CFR 15.247 as a DTS transmitter.

**Recommendation**

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

**Signature**


8/19/2005

Dean Ghizzone, TCB Committee

**Findings**

<b>Opinions</b>	
<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 2.1033(b)(3)</b>	Installation guide, operating instructions,user manual
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	User Manual.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 2.1033(b)(4)</b>	Operational description
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Operational Description.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 2.1033(b)(5)</b>	Frequency block diagram and Schematic diagram
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Block Diagram.pdf,Schematics.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 cfr 2.1033(b)(6)</b>	Test Report
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-MUSI0002.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 2.1033(b)(6)</b>	Conversions showing how the test results were achieved
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-MUSI0002.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 2.1033(b)(7)</b>	Internal and external photos
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Internal Photos.pdf, External Photos.pdf

Specification Requirements	Description
Required Exhibit	Test Setup Photo Exhibit
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 1.1307(b),2.1091,2.1093	RF Exposure Hazzard
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.19	Labeling
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	User Manual.pdf, Label.pdf

Specification Requirements	Description
47 Cfr 15.21	Information for user
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	User Manual.pdf

Specification Requirements	Description
47 Cfr 15.33	Frequency range of tests
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.35	Measurement detectors
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
ANSI C63.4 EUT Ports	All EUT ports populated,emissions maximized,Antenna height adjusted
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.203	Antenna Requirements
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.205	Restricted bands
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.207	Power line Conducted emissions
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.209	Spurious Emissions
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 cfr 15.247	Operation within specified bands
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.247(a)	Occupied Bandwidth
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
47 Cfr 15.247(b)	Output Power
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-MUSI0002.pdf

Specification Requirements	Description
<b>47 Cfr 15.247(d)</b>	Band Edge Compliance
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-MUSI0002.pdf

Specification Requirements	Description
<b>47 Cfr 15.247(d)</b>	Spurious Conducted Emissions
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-MUSI0002.pdf

Specification Requirements	Description
<b>47 Cfr 15.247(d)</b>	Spurious Radiated Emissions
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-MUSI0002.pdf

Specification Requirements	Description
<b>47 Cfr 15.247(e)</b>	Power Spectral Density
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-MUSI0002.pdf