

# ALGOSTIM,LLC

**TO:** Federal Communications Commission  
Office of Engineering and Technology  
7435 Oakland Mills Road  
Colombia, Maryland 21046

**DATE:** February 26, 2014

**SUBJECT:** Application for Certification of Medical Implant Transceiver, FCC ID: 2ABU824082412

Dear Sir or Madam:

Algostim, LLC ("Algostim"), located at 10675 Naples Street Northeast, Blaine, MN 55449, submits this application to operate two implantable medical device models in the Medical Device Radiocommunication Service (MedRadio), operating in the 402-405 MHz frequency band, under Part 95 of the FCC Rules and Regulations.

This original grant request is for device approval of Model 2408 and 2412 under FCC ID: 2ABU824082412.

The Algostim Algovita Model 2408 and 2412 are implantable pulse generators (IPG) used to treat chronic pain. These models use an integrated antenna and contain an RF transceiver that transmits and receives in the MedRadio "core" band of 402-405 MHz. The transceiver in the IPG communicates wirelessly between the IPG and the three external programmers: Model 4100 Pocket Programmer, Model 4200 Programmer Charger, and Model 4500 Clinician Programmer, using an integrated antenna with a maximum radiated output power of 25  $\mu$ W EIRP. The submission of the application for the external programmers will be submitted separately. The submitted technical reports for the IPG demonstrate compliance to the applicable technical requirements contained in CFR Title 47 Part 95. The IPG also includes a receiver for a 2.4 GHz wake up signal. The wake-up signal's only purpose is to bring the IPG's transceiver out of sleep state. Once the implant is activated, communication takes place in the MedRadio band. The submitted technical reports for the IPG demonstrate compliance to the applicable technical requirements contained in CFR Title 47 Part 15.109.

This application also contains a request for permanent and short-term confidential treatment of portions of the submitted application material. Further details and supporting documents are attached.

Sincerely,

*Bernard Bosley* 26FEB2014

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