AUG 5 1998

K982364

5.0 510(k) Summary

510(k) Summary

This summary of 510(k) safety and effectiveness information is submitted in accordance with the requirements of the Safe Medical Devices Act of 1990 and 21 C.F.R. § 807.92.

1. The submitter of this premarket notification is:

Lisa Misterka Benati
Senior Regulatory Engineer
Radionics Software Applications, Inc.
22 Terry Avenue
Burlington, MA 01803
Tel: (781) 272 - 1233
Fax: (781) 272 - 2428

This summary was prepared on July 1, 1998.

2. This premarket notification describes a modification to the Radionics Optical Tracking System (OTS). The common name of this device is Intraoperative Guidance Device, and its classification name is Stereotaxic instrument.

3. The modification involves the incorporation of battery-powered Wireless Standard Probe and DRF accessories . These accessories are substantially equivalent to their wired counterparts in the predicate Radionics OTS.

4. When coupled with the OTS workstation, the above wireless accessories function in the same way as the predicate wired versions by allowing preoperative and operative planning of cranial and spinal surgical procedures using workstation images.

5. Like their counterparts in the predicate Radionics OTS, the wireless Standard Probe and DRF are intended to facilitate the preoperative and operative planning of cranial and spinal surgical procedures. There are no operational differences between the wired and wireless accessories. All phases of preoperative and operative planning remain unchanged.

6. Apart from the power source, the technological characteristics are the same as or similar to, those of the predicate wired device where LED-based systems and infrared signals are used to provide tracking information as an aid to cranial and spinal surgery.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

AUG 5 1998

Ms. Lisa Misterka Benati
Senior Regulatory Engineer
Radionics, Inc.
22 Terry Avenue
Burlington, Massachusetts 01803

Re: K982364
Trade Name: Radionics Optical Tracking System, (OTS) Wireless System
Regulatory Class: II
Product Code: HAW
Dated: July 2, 1998
Received: July 6, 1998

Dear Ms. Benati:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

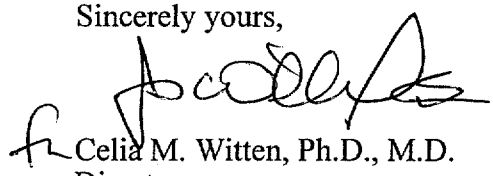
If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4595. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely yours,



Celia M. Witten, Ph.D., M.D.
Director
Division of General and
Restorative Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

510(k) Number (if known): K982364

Device Name: Radionics Optical Tracking System (OTS) Wireless System

Indications for Use:

The Radionics Optical Tracking System (OTS) Wireless System is indicated for use in cranial and spinal surgical procedures in which anatomical landmarks are not clearly visible or where a desired target is close to critical structures.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

**Concurrence of CDRH, Office of Device Evaluation (ODE)**

(Division Sign-Off)
Division of General Restorative Devices
510(k) Number K982364

**Prescription Use** X
**(Per 21 CFR 801.109)**

**OR**

**Over-The-Counter Use** _____

(Optional Format 1-2-96)