

AUG 14 2002

*StealthStation® System Three Dimensional C-Arm Interface*

K022414

**Summary of Safety and Effectiveness  
StealthStation® System Three Dimensional C-Arm Interface**

**I. Manufacture:**

Medtronic Surgical Navigation Technologies  
826 Coal Creek Circle  
Louisville, CO 80027 USA  
Telephone Number: (720) 890-3200  
Fax Number: (720) 890-3500

**II. Contact:**

Victoria G. Rendon  
Clinical and Regulatory Affairs Associate  
Medtronic Surgical Navigation Technologies

**III. Product Name/ Classification Name:**

Product Name: **StealthStation® System Three Dimensional C-Arm Interface**  
Classification Name: **Stereotaxic Instrument (21 CFR 882.4560)**  
Classification Panel: **84 HAW**

**IV. Date Summary Submitted**

July 22, 2002

**V. Description of Device Modification:**

This submission describes updates made to the StealthStation® System to include an interface that enables the StealthStation® System to cohesively communicate with a Three Dimensional C-Arm.

**VI. Substantial Equivalence:**

The StealthStation® System Three Dimensional C-Arm Interface was shown to be substantially equivalent to the StealthStation System cleared in previous 510(k)'s. As required by risk analysis, all verification and validation activities were performed by designated individual(s) and the results demonstrated substantial equivalence.

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**VII. Indications For Use:**

The indications for use for the StealthStation® System Three Dimensional C-Arm Interface are identical to the StealthStation® System indications for use. The indications for use are as follows:

The StealthStation® System is intended as an aid for precisely locating anatomical structures in either open or percutaneous procedures. The StealthStation® System is indicated for any medical condition in which the use of stereotactic surgery may be appropriate, and where reference to a rigid anatomical structure, such as the skull, a long bone, or vertebra, can be identified relative to a CT or MR based model or fluoroscopy images of the anatomy.

Example procedures include, but are not limited to:

Cranial Procedures:

Cranial Biopsies  
Placement  
Tumor Resections  
Craniotomies/ Craniectomies  
Skull Base procedures  
Thalamotomies/Pallidotomies  
Pituitary Tumor Removal  
CSF Leak Repair

Spinal Procedures:

Spinal Implant Procedures, such as Pedicle Screw

Orthopedic Procedures:

Total Knee Arthroplasty (Primary and Revision)  
Unicompartmental Knee Arthroplasty

ENT Procedures:

Transphenoidal Procedures  
Intranasal Procedures  
Orbital Decompression Procedures  
Optic Nerve Decompression Procedures  
Polyposis Procedures  
Endoscopic Dacryocystorhinostomy  
Encephalocele Procedures  
Sinus procedures, such as Maxillary Antrostomies, Ethmoidectomies, Sphenoidotomies/Sphenoid Explorations, Turbinate Resections, and Frontal Sinusotomies



Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

**AUG 14 2002**

Ms. Victoria G. Rendon  
Clinical and Regulatory Affairs Associate  
Metronic Surgical Navigation Technologies  
826 Coal Creek Circle  
Louisville, Colorado 80027

Re: K022414  
Trade/Device Name: Stealthstation System Three Dimensional  
C-Arm Interface  
Regulation Number: 882.4560  
Regulation Name: Stereotaxic Instrument  
Regulatory Class: II  
Product Code: HAW  
Dated: July 23, 2002  
Received: July 24, 2002

Dear Ms. Rendon:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate 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) that do not require approval of a premarket approval application (PMA). 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 (PMA), 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 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

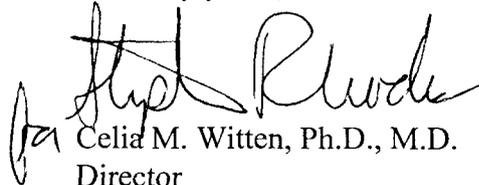
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Ms. Victoria G. Rendon

This letter will allow you to begin marketing your device as described in your Section 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 21 CFR Part 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. 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" (21CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

A handwritten signature in black ink, appearing to read "Celia M. Witten". The signature is written in a cursive style with a large initial "C" and "W".

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative  
and Neurological Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

510(k) Number (if known): K022414

Device Name: StealthStation® System Three Dimensional C-Arm Interface

Indications for Use:

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Sinus procedures, such as Maxillary Antrostomies, Ethmoidectomies, Sphenoidotomies/Sphenoid Explorations, Turbinate Resections, and Frontal Sinusotomies

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

Concurrence of CDRH, Office Of Device Evaluation (ODE)

Prescription Use   
(Per 21 CFR 801.109)

Steph R. ... Over-The-Counter Use   
(Division Sign-Off)  
(Optional Format 1-2-96)  
Division of General, Restorative  
and Neurological Devices

510(k) Number K022414