

K041476



GE Healthcare Technologies

P.O. Box 414, Milwaukee, WI 53201

JUN 17 2004

510(k) Summary

This 510(k) summary of safety and effectiveness information is submitted in accordance with the requirements of 21 CFR Part 807.92(c).

Submitter: GE Healthcare Technologies
PO Box 414
Milwaukee, WI 53201

Contact Person: Larry A. Kroger Ph.D.
Manager, Regulatory Programs

Telephone: 262- 544-3894

Fax: 262- 548-4768

Date Prepared: May 28, 2004

Device Name:

GE Signa[®] Excite 1.5T MR System, and
GE Signa[®] Excite 3.0T MR System
Magnetic Resonance Diagnostic System, 21 CFR 892.1000, 90-LNH

Marketed Device:

The Signa[®] Excite 1.5T MR System is substantially equivalent to the currently marketed Signa[®] 1.5T Infinity MR system (K013636) with the main differences being a change to the receive chain architecture that includes sixteen independent receive channels, and allows for future expansion in 16 channel increments.

The Signa[®] Excite 3.0T MR System is substantially equivalent to the currently marketed Signa[®] 3.0T Infinity with Excite Technology MR system (K030874) with the main differences being a change to the receive chain architecture that includes sixteen independent receive channels, and allows for future expansion in 16 channel increments.

Device Description:

The Signa[®] Excite 1.5T and 3.0T Magnetic Resonance Systems are a modification to the previously cleared MR systems K013636, and K030874 which utilizes a superconducting magnet to acquire 2D single-slice and multi-slice, and 3D volume images. The Signa[®] Excite 1.5T and 3.0T Magnetic Resonance System features a superconducting magnet operating at either 1.5T, or 3.0T. The data acquisition system supports 1, 4, 8, 16 independent receive channels and multiple independent coil elements per channel during a single acquisition series. Additionally, the system architecture is designed for expansion in 16 channel increments. The system can image in the sagittal, coronal, axial, oblique and double oblique planes, using various pulse sequences. Images are acquired and reconstructed using 2D and 3D Fourier transformation techniques. The system is intended for high-resolution anatomical applications, short scan times, and multinuclear spectroscopy.



Indications for Use:

The GE Signa[®] Excite MR system is a whole body magnetic resonance scanner designed to support high resolution, high signal-to-noise ratio, and short scan times. The Signa[®] Excite MR system is indicated for use as a diagnostic imaging device to produce axial sagittal, coronal and oblique images, spectroscopic images, and/or spectra, dynamic images of the internal structures and organs of the entire body, including, but not limited to, head, neck, TMJ, spine, breast, heart, abdomen, pelvis, joints, prostate, blood vessels, and musculoskeletal regions of the body. The images produced by the Signa[®] Excite system reflect the spatial distribution of protons (hydrogen nuclei) exhibiting magnetic resonance. These images and/or spectra when interpreted by a trained physician yield information that may assist in diagnosis.

Comparison with Predicate Device:

The Signa[®] Excite 1.5T and 3.0T MR Systems are a modification of the previously cleared MR systems K013636, and K030874 with the main differences being the change to the receive chain architecture that includes sixteen independent receive channels, and allows for future expansion in 16 channel increments.

Summary of Studies:

The Signa[®] Excite 1.5T and 3.0T Magnetic Resonance Systems were evaluated to the appropriate NEMA performance standards as well as the IEC 60601-1 International Medical Equipment Safety standard and IEC 60061-2-33 Particular Requirements for Safety of Magnetic Resonance Equipment for Medical Diagnosis. The Signa[®] Excite 1.5T Magnetic Resonance System is comparable to the currently marketed Signa[®] 1.5T Infinity Magnetic Resonance System. The Signa[®] Excite 3.0T Magnetic Resonance System is comparable to the currently marketed Signa[®] 3.0T Infinity with Excite Technology Magnetic Resonance System.

Conclusion:

It is the opinion of GE that the Signa[®] Excite 1.5T Magnetic Resonance System is substantially equivalent to the Signa[®] 1.5T Infinity Magnetic Resonance System. Usage of the Signa[®] Excite 1.5T Magnetic Resonance System does not result in any new potential hazards.

It is the opinion of GE that the Signa[®] Excite 3.0T Magnetic Resonance System is substantially equivalent to the Signa[®] 3.0T Infinity with Excite Technology Magnetic Resonance System. Usage of the Signa[®] Excite 3.0T Magnetic Resonance System does not result in any new potential hazards.



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

JUN 17 2004

Larry A. Kroger, Ph.D.
Senior Regulatory Programs Manager
GE Healthcare Technologies
P.O. Box 414 W-400
MILWAUKEE WI 53201

Re: K041476
Trade/Device Name: GE Signa® Excite 1.5T MR System,
and GE Signa® Excite 3.0 MR System
Regulation Number: 21 CFR 892.1000
Regulation Name: Magnetic resonance
diagnostic device
Regulatory Class: II
Product Code: 90 LNH
Dated: May 28, 2004
Received: June 3, 2004

Dear Dr. Kroger:

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.

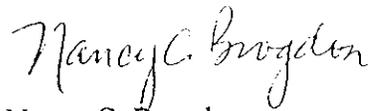
This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to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

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of the letter:

8xx.1xxx	(301) 594-4591
876.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4616
884.2xxx, 3xxx, 4xxx, 5xxx, 6xxx	(301) 594-4616
892.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4654
Other	(301) 594-4692

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) you may obtain. 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,



Nancy C. Brogdon
Director, Division of Reproductive,
Abdominal and Radiological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

