



NUCLETRON B.V.

Waardgelder 1 3905 TH Veenendaal P.O.Box 930 3900 AX Veenendaal

The Netherlands

Phone +31 318 557133 Fax +31 318 550485

Department of Health and Human Services Centre of Device and Radiological Health Office of Device Evaluation Special 510(k) section

510(K) SUMMARY OF SAFETY AND EFFECTIVENESS INFORMATION as required by section 807.92(c)

Submitter of 510(k):

Company name:

Nucletron Corporation

Registration number:

1121753

Address:

7080 Columbia Gateway Drive

Columbia, MD 21046-2133

Phone:

410-312-4100

Fax:

410-312-4197

Correspondent:

Lisa Dimmick

Director Assurance & Regulatory Affairs

Modified Device Name:

Trade/Proprietary Name:

microSelectron®HDR - GENIE Afterloading System

Common/Usual Name:

Remote Controlled Afterloading System

Classification Name:

Radiotherapy Device

Classification:

Class II

Legally Marketed Device(s)

Our device is substantially equivalent to the legally marketed predicate device cited in the table below:

Manufacturer	Device	510(k)#
Nucletron BV	K953946 microSelectron-HDR V2	K953946

Special 510(k)
Nucletron microSelectron®HDR - GENIE Afterloading System
April 2002
Description:

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The entry-level microSelectron®HDR - GENIE Afterloading System concerns a microSelectron-HDR (V2) with only three treatment channels. The operators console of the microSelectron®HDR - GENIE Afterloading System concerns a PC running dedicated Treatment Console Software which is similar as in the predicate device microSelectron-HDR (V2). In the microSelectron®HDR - GENIE Afterloading System there is on the operators console a second completely independent software program for radiotherapy treatment planning. Treatment plans are transferred from the radiotherapy treatment planning software to the Treatment Console Software by file transfer. It is the same as in the predicate device where treatment plans are transferred to the Treatment Console Software from radiotherapy treatment planning software running on a separate computer.

The radiotherapy treatment planning software is covered by a separate 510(k) submission.

Applicators and Transfer Tubes as available for microSelectron-HDR (V2) are also applicable for the microSelectron®HDR - GENIE Afterloading System.

The entry-level microSelectron®HDR - GENIE Afterloading System is a standalone device. Connection to a LAN is only for the purpose of File Transfer of Treatment Plan Files.

Intended use:

The Nucletron microSelectron®HDR - GENIE Afterloading System has the same intended use as the legally marketed predicate device cited:

This device is intended to enable an operator to apply, by remote control, a radionuclide source into the body or to the surface of the body for radiation therapy.

Summary of technological considerations:

The Nucletron microSelectron®HDR - GENIE Afterloading System is substantially equivalent to the cleared predicate device, microSelectron-HDR V2, 510(k)#: K953946.

Name: F. van Krieken

Title: Business Segment Manager

Nucletron B.V.

Veenendaal, The Netherlands

Data



Food and Drug Administration 9200 Corporate Boulevard . Rockville MD 20850

MAY 2 3 2002

Ms. Lisa Dimmick Director Quality Assurance and Regulatory Affairs **Nucletron Corporation** 7080 Columbia Gateway Drive COLUMBIA MD 21046-2133

Re: K021286

Trade/Device Name: MicroSelectron® HDR - GENIE

Afterloading System

Regulation Number: 21 CFR 892.5700

Regulation Name: Remote controlled radionuclide

applicator system

Regulatory Class: II Product Code: 90 JAQ Dated: April 10, 2002 Received: April 23, 2002

Dear Ms. Dimmick:

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 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 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 this 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" (21 CFR 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,

Vancy C. Brogdon
Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

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510(K) NUMBER (IF KNOWN): K021286

DEVICE NAME: MICROSELECTRON HDR-GENIE AFTERLOADING SYSTEM

INDICATIONS FOR USE:

The Nucletron microSelectron HDR - GENIE Afterloading System has the same intended use as the legally marketed predicate device cited.

This device is intended to enable an operator to apply, by remote control, a radionuclide source into the body or to the surface of the body for radiation therapy.

(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)

 OR

Over-The-Counter-Use_ (Optional Format 1-2-96

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices 510(k) Number

K021286