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## 510(k) Summary

**General Information:**

This 510(k) is to provide notification of substantial equivalence for the Candela Vbeam Pulse Dye Laser System, which is substantially equivalent to previously marketed device intended for photocoagulation of benign cutaneous vascular lesions, such as facial and leg telangiectasia, rosacea, port wine stains, hemangiomas, angioma, spider angioma, Poikiloderma of Civatte and benign cutaneous lesions, such as warts, scars, striae and psoriasis. Photocoagulation of benign cutaneous lesion and benign vascular lesion in Gynecology, treatment of wrinkles and the treatment of inflammatory acne vulgaris. There have been no modifications to design to the Vbeam Pulse Dye Laser as cleared under K 021180.

Submitted by:	Candela Corporation 530 Boston Post Road Wayland, MA 01778-1886
Contact Person:	Lorraine Calzetta
Date prepared:	October 10, 2003
Classification:	Class II (21 CFR § 878.4810 Laser Surgical Instrument for use in General and Plastic Surgery and in Dermatology)
Common Name:	Dermatology Laser, Vbeam Pulse Dye Laser System
Predicate Devices:	Candela Vbeam Pulse Dye Laser (K021180), ICN Photonics NLite (K024189)

**Description:**

The Vbeam is a 595 nm flash-lamp excited pulse dye medical laser, controlled by an embedded microprocessor, to be used for the treatment of benign cutaneous vascular lesions, such as facial and leg telangiectasia, rosacea, port wine stains, hemangiomas, angioma, spider angioma, Poikiloderma of Civatte and benign cutaneous lesions, such as warts, scars, striae and psoriasis. Photocoagulation of benign cutaneous lesion and benign vascular lesion in Gynecology, for the treatment of wrinkles and the treatment of inflammatory acne vulgaris.. The Vbeam laser may be used with the Candela Dynamic Cooling Device, which provides a short burst of cryogen spray prior to firing the laser pulse. The laser output energy is delivered via an optical fiber to a handpiece, which produces circular beams with diameters of 5, 7 or 10 millimeters on the skin. The cryogen, which is housed within the laser enclosure, is delivered via a hose to a nozzle located in the handpiece.

The Candela Vbeam Pulse Dye Laser is equipped with safety interlock systems to protect patients and operators. Users of the device make selections from an onboard control panel to regulate operation during treatment.

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**Testing:**

As a laser product, the Vbeam Pulsed Dye Laser is required to conform and does conform to the Laser Performance Standard (21 CFR 1040). In addition the Cbeam conforms to the UL 2601 Electrical Safety Standard and with the Harmonized Standard EN 60601-1-2, Part 2 established by and required by the European Community.

**Summary of Substantial Equivalence:**

The Candela Vbeam Laser has the same intended use, utilizes similar operating principles and matches key design aspects, including similar spot size, and maximum delivered power as the predicate device.

On the basis of similarities in methods of assembly, method of operation, and intended uses, Candela Corporation believes that its Candela Vbeam Laser System is substantially equivalent to the predicate device.



JAN 16 2004

Ms. Lorraine Calzetta Patrovic  
Manger, Regulatory Affairs  
Candela Corporation  
530 Boston Post Road  
Wayland, Massachusetts 01778

Re: K033461

Trade/Device Name: Candela Vbeam Pulse Dye Laser System  
Regulation Number: 21 CFR 878.4810  
Regulation Name: Laser surgical instrument for use in general and  
plastic surgery and in dermatology  
Regulatory Class: II  
Product Code: GEX  
Dated: October 27, 2003  
Received: October 30, 2003

Dear Ms. Patrovic:

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.

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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 (301) 594-4659. 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 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,

*for* *Miriam C. Provost*  
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

## Indications for Use

510(k) Number (if known): K033461

Device Name: ***Candela Vbeam Pulse Dye Laser System***

Indications For Use:

The Candela Vbeam Pulse Dye Laser is indicated for the following uses in:

General Surgery: Photocoagulation of benign cutaneous vascular lesion and benign cutaneous lesions.

Dermatology/Plastic Surgery: For treatment of benign cutaneous vascular lesion, such as facial and leg telangiectasia, rosacea, port wine stains, hemangiomas, angioma, spider angioma, Poikiloderma of Civatte, and benign cutaneous lesions, such as warts, scars, striae and psoriasis. and the treatment of wrinkles.

**New indication : Treatment of Inflammatory Acne Vulgaris**

Gynecology: Photocoagulation of benign cutaneous lesion and benign vascular lesion in gynecology.

Podiatry: Treatment of benign cutaneous lesion, such as warts.

Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use \_\_\_\_\_  
(21 CFR 807 Subpart C)

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

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Concurrence of CDRH, Office of Device Evaluation (ODE)

*Miriam C Provost*  
(Division Sign-Off)  
Division of General, Restorative  
and Neurological Devices

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