

Food and Drug Administration 10903 New Hampshire Avenue Document Control Room – WO66-G609 Silver Spring, MD 20993-0002

MAR 2 5 2011

Mr. Jon Brumbaugh Vice President, Regulatory Affairs and Compliance 6024 Jean Road Lake Oswego, OR 97035

Re: P950037/S091

Models included in original supplement:

Trade Name	Model Number
Evia DR	359 524
Evia DR-T	359 529
Evia SR	359 531
Evia SR-T	359 533
Entovis DR	365 461
Entovis DR-T	365 463
Entovis SR	365 465
Entovis SR-T	365 467

Also included with Amendment 1:

Trade Name	Model Number
Estella DR	371 205
Estella DR-T	371 207
Estella SR	371 209
Estella SR-T	371 200
Ecuro DR	375 437
Ecuro DR-T	375 439
Ecuro SR	375 433
Ecuro SR-T	375 435
Effecta D	375 429
Effecta DR	371 199
Effecta S	375 431
Effecta SR	371 202

Filed: December 14, 2010 Amended: March 9, 2011 Procode: LWP Page 2 – Mr. Jon Brumbaugh

Dear Mr. Jon Brumbaugh:

The Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA) has completed its evaluation of your premarket approval application (PMA) supplement, which requested approval for updated integrated circuits for use in the currently marketed Evia/Entovis/Estella/Ecuro/Effecta family of pulse generators. Based upon the information submitted, the PMA supplement is approved. You may begin commercial distribution of the device as modified by your PMA supplement in accordance with the conditions described below.

The sale and distribution of this device are restricted to prescription use in accordance with 21 CFR 801.109 and under section 515(d)(1)(B)(ii) of the Federal Food, Drug, and Cosmetic Act (the act). The device is further restricted under section 515(d)(1)(B)(ii) of the act insofar as the labeling must specify the specific training or experience practitioners need in order to use the device FDA has determined that these restrictions on sale and distribution are necessary to provide reasonable assurance of the safety and effectiveness of the device. Your device is therefore a restricted device subject to the requirements in sections 502(q) and (r) of the act, in addition to the many other FDA requirements governing the manufacture, distribution, and marketing of devices.

Continued approval of this PMA is contingent upon the submission of periodic reports, required under 21 CFR 814.84, at intervals of one year (unless otherwise specified) from the date of approval of the original PMA. Two copies of this report, identified as "<u>Annual Report</u>" (please use this title even if the specified interval is more frequent than one year) and bearing the applicable PMA reference number, should be submitted to the address below. The Annual Report should indicate the beginning and ending date of the period covered by the report and should include the information required by 21 CFR 814.84.

In addition to the above, and in order to provide continued reasonable assurance of the safety and effectiveness of the device, the Annual Report must include, separately for each model number (if applicable), the number of devices sold and distributed during the reporting period, including those distributed to distributors. The distribution data will serve as a denominator and provide necessary context for FDA to ascertain the frequency and prevalence of adverse events, as FDA evaluates the continued safety and effectiveness of the device.

In addition, because your device is a pacemaker, implantable cardioverter-defibrillator (ICD), or system lead, FDA has determined that the following additional information is necessary to provide continued reasonable assurance of the safety and effectiveness of the device. In the Annual Report, provide the following information known by or reported to the applicant:

- 1. The number of pacemakers domestically implanted and the number of reported explants and deaths.
- 2. A breakdown of the reported deaths into pacemakers related and non-pacemaker related.

Page 3 – Mr. Jon Brumbaugh

- 3. A breakdown of the reported explants into the number reported that were:
 - a. For pacemakers and pulse generators: at end of battery life, the number that had complications not resolvable by programming, and, as applicable, the numbers that experienced other safety and effectiveness complications as ascertained by the user, applicant, or otherwise, or
 - b. For leads: associated with mechanical failure, associated with clinical complications, and as applicable, the numbers that experienced other safety and effectiveness complications as ascertained by the user, applicant, or otherwise.
- 4. The number of pacemakers returned to the applicant for cause from domestic sources, with a breakdown into:
 - a. For pacemakers and pulse generators: the number currently in analysis, the number operating properly, and the number at normal battery depletion and failed (with the failure mechanisms described).
 - b. For leads: the number currently in analysis, the number operating properly, the number failed (with failure mechanisms described); broken down into groupings for full leads and partial leads.
- 5. A cumulative survival table for the pacemakers .

Before making any change affecting the safety or effectiveness of the device, you must submit a PMA supplement or an alternate submission (30-day notice) in accordance with 21 CFR 814.39. All PMA supplements and alternate submissions (30-day notice) must comply with the applicable requirements in 21 CFR 814.39. For more information, please refer to the FDA guidance document entitled, "Modifications to Devices Subject to Premarket Approval (PMA) - The PMA Supplement Decision-Making Process"

(www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm089274 .htm).

You are reminded that many FDA requirements govern the manufacture, distribution, and marketing of devices. For example, in accordance with the Medical Device Reporting (MDR) regulation, 21 CFR 803.50 and 21 CFR 803.52, you are required to report adverse events for this device. Manufacturers of medical devices, including in vitro diagnostic devices, are required to report to FDA no later than 30 calendar days after the day they receive or otherwise becomes aware of information, from any source, that reasonably suggests that one of their marketed devices:

- 1. May have caused or contributed to a death or serious injury; or
- 2. Has malfunctioned and such device or similar device marketed by the manufacturer would be likely to cause or contribute to a death or serious injury if the malfunction were to recur.

Page 4 – Mr. Jon Brumbaugh

Additional information on MDR, including how, when, and where to report, is available at <u>www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm</u>.

In accordance with the recall requirements specified in 21 CFR 806.10, you are required to submit a written report to FDA of any correction or removal of this device initiated by you to: (1) reduce a risk to health posed by the device; or (2) remedy a violation of the act caused by the device which may present a risk to health, with certain exceptions specified in 21 CFR 806.10(a)(2). Additional information on recalls is available at www.fda.gov/Safety/Recalls/IndustryGuidance/default.htm.

CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading.

Failure to comply with any post-approval requirement constitutes a ground for withdrawal of approval of a PMA. The introduction or delivery for introduction into interstate commerce of a device that is not in compliance with its conditions of approval is a violation of law.

U.S. Food and Drug Administration Center for Devices and Radiological Health PMA Document Mail Center – WO66-G609 10903 New Hampshire Avenue Silver Spring, MD 20993-0002

If you have questions concerning this approval order, please contact at (301)796-

Sincerely yours,

For Bram Zuckerman M.D. Director Division of Cardiovascular Devices Office of Device Evaluation Center for Devices and

Radiological Health