Records Processed under FOIA Request # 2015-3943; Released by CDRH on 09-04-2015 RITA Medical Systems, Inc. RITA® Model 90 Electrosurgical Probe

K992693

8.0 510(K) SUMMARY OF SAFETY AND EFFECTIVENESS

| General Provisions | Trade Name: Model 90 Electrosurgical Probe Common/Classification Name: Electrosurgical cutting and coagulation accessory | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| Name of Predicate | RITA Medical Systems Inc Model 70 Electrosurgical Probe | | | | | | |
| Classification | Class II | | | | | | |
| Performance Standards | Performance standards have not been established by the FDA under section 514 of the Food, Drug and Cosmetic Act. | | | | | | |
| Intended Use | The Model 90 Electrosurgical Probe is designed to supply energy (generated by the RITA Medical Systems' Electrosurgical Generator) for use in electrosurgery and is designed for the following: | | | | | | |
| | Incorporation of multiple needles on each probe minimizing the number of invasive accesses necessary to achieve desired lesions. | | | | | | |
| | • Provide a minimally invasive laparoscopic, percutaneous, or intraoperative access to the targeted tissue. | | | | | | |
| | • Deliver radiofrequency energy in a controlled fashion to create coagulative necrotic lesions. | | | | | | |
| | • Incorporate thermocouples for temperature feedback. | | | | | | |
| | • Provide for local delivery of fluid. | | | | | | |
| Device Description | This RITA® Model 90 device is available in 15 cm and 25 cm lengths for a variety of medical applications. The secondary electrodes deploy out from the trocar tip. The RITA Model 90 device consists of the following components: | | | | | | |
| | • <i>primary electrode</i> : stainless-steel hypodermic tubing with a portion exposed as an electrode | | | | | | |
| | • secondary electrodes: stainless-steel extendible flexible hypodermic tubing at the distal end of probe | | | | | | |
| | • trocar insulation: fixed clear polymer shrink tubing | | | | | | |
| | handle: polymer materials with markings to indicate the amount of electrode array deployment from the trocar | | | | | | |
| | <i>RF pathway</i>: connection through a Lemo connector built into the handle | | | | | | |
| | • <i>fluid infusion</i> : delivery through Luer port at side of the handle | | | | | | |
| | • temperature sensors: Five temperature sensors at the periphery of the array | | | | | | |
| | • <i>depth indicators</i> : Incremental 1-cm marks denote needle penetration depth. | | | | | | |
| Performance Data | The Model 90 devices were subjected to a battery of electrical, mechanical, and biocompatibility testing to verify that the devices met the specifications. The devices met the specifications and the materials did not elicit toxicological responses. | | | | | | |
| | · · | | | | | | |

Questions? Contact FDA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or 301-796-8118



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

SEP 1 0 1999

Ms. Erin Dignan Director, Regulatory Affairs RITA Medical Systems, Inc. 967 North Shoreline Boulevard Mountain View, California 94043

Re: K992693 Trade Name: RITA Model 90 Electrosurgical Accessory Regulatory Class: II Product Code: GEI Dated: August 10, 1999 Received: August 12, 1999

Dear Ms. Dignan:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to 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). 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 (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the <u>Code of Federal Regulations</u>, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

Page 2 – Ms. Erin Dignan

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 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4595. 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 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely yours, will

Celia M. Witten, Ph.D., M.D. Director Division of General and Restorative Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

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Records Processed under FOIA Request # 2015-3943; Released by CDRH on 09-04-2015

| RITA Med | ical Systems, | Inc. |
|-----------------|---------------|------|
|-----------------|---------------|------|

Special 510(k): Device Modification RITA® Model 90 Electrosurgical Probe

3.0 INTENDED USE

| | Indications for Use Statement |
|-----------------------------|---|
| 510(K) Number (if known) | K 992693 |
| Device Name | Model 90 Electrosurgical Probe |
| | The Model 90 Electrosurgical Probe is designed to supply energy (generated by the RITA Medical Systems' electrosurgical generator) for use in electrosurgery and is designed for the following: |
| | • Incorporation of multiple needles on each probe minimizing the number of invasive accesses necessary to achieve desired lesions. |
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| | • Deliver radiofrequency energy in a controlled fashion to create coagulative necrotic lesions. |
| | • Incorporate thermocouples for temperature feedback. |
| | • Provide for local delivery of fluid. |
| PLEASE DC | NO WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED |
| | Concurrence of CDRH, Office of Device Evaluation (ODE) |
| | piccel of |
| | (Division Sign-Off) Division of General Restorative Devices K992693 510(k) Number |
| (per 21 CFR 801.) | Prescription Use OR Over the Counter Use |



Records Processed under FOIA Request # 2015-3943; Released by CDRH on 09-04-2015 DEPARTMENT OF HEALTH & HUMAN SERVICES Public Health Service

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

SEP 1 0 1999

Ms. Erin Dignan Director, Regulatory Affairs RITA Medical Systems, Inc. 967 North Shoreline Boulevard Mountain View, California 94043

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Page 2 – Ms. Erin Dignan

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Sincerely yours, pcollett

Celia M. Witten, Ph.D., M.D. Director Division of General and Restorative Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

| RITA Medical Syste | ms, Inc. Special 510(k): Device Modification RITA® Model 90 Electrosurgical Probe |
|-----------------------------|---|
| 3.0 INTEN | DED USE |
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| PLEASE D | O NO WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED |
| | Concurrence of CDRH, Office of Device Evaluation (ODE) (Division Sign-Off) Division of General Restorative Devices K992693 510(k) Number |
| (per 21 CFR 80 | Prescription Use OR Over the Counter Use |

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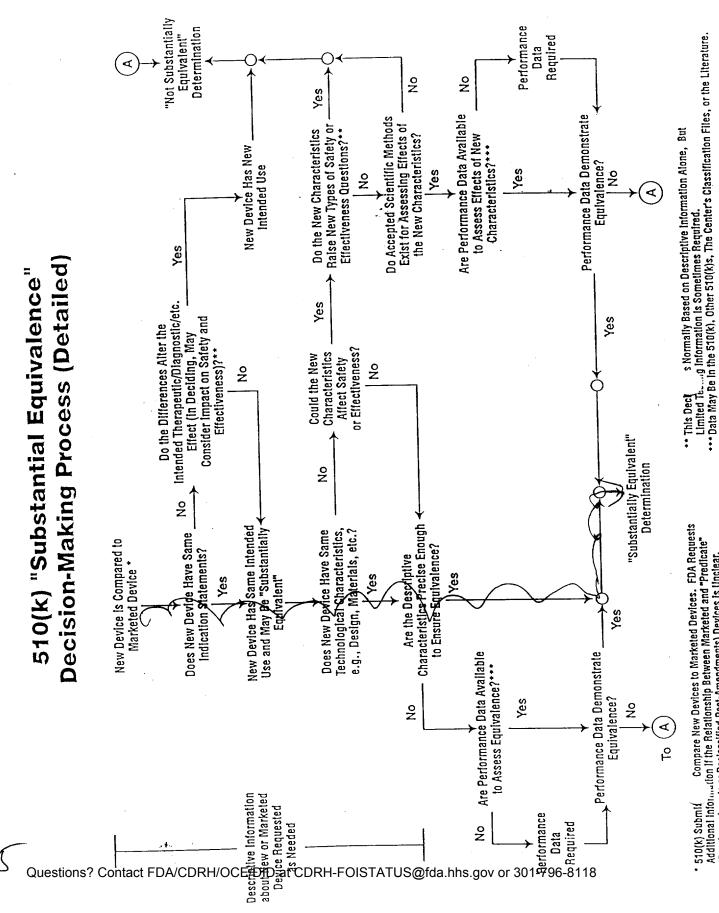
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Records Processed under FOIA Request # 2015-3943; Released by CDRH on 09-04-2015 DEPARTMENT OF HEALTH & HUMAN SERVICES Public Health Service Food And Drug Administration

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| From: | Reviewer(s) - Name(s) | | Memora |
|------------------|--|---|---------------------------------------|
| Subject: | 510(k) Number $\chi 992693$ | | |
| • | | tifications | · · · · · · · · · · · · · · · · · · · |
| To: | The Record - It is my recommendation that the subject 510(k) Nor | uncation: | |
| | Refused to accept. | | |
| | Requires additional information (other than refuse to accept | pt). | |
| | \Box Accepted for review <u>$8/19/99$</u> . | | |
| • | \Box Is substantially equivalent to marketed devices. | | |
| | \Box NOT substantially equivalent to marketed devices. | | |
| | De Novo Classification Candidate? | JYES □1 | 40 |
| | Other (e.g., exempt by regulation, not a device, duplicate, | etc.) | |
| Is | this device subject to Postmarket Surveillance? | TYES | 🛛 NO |
| Is | this device subject to the Tracking Regulation? | TYES | М ИО |
| W | as clinical data necessary to support the review of this 510(k)? | U YES | N NO |
| | this a prescription device? | E YES | D NO |
| W | /as this 510(k) reviewed by a Third Party? | □YES | M NO |
| | pecial 510(k)? | YES | ОИ 🛛 |
| Â | bbreviated 510(k)? Please fill out form on H Drive | U YES | D NO |
| | This 510(k) contains: | | _ |
| | Truthful and Accurate Statement Requested Enclosed (required for originals received 3-14-95 and after) | 790 | GE I |
| | 🗚 510(k) summary OR 🛛 A 510(k) statement | $\sim 0^{-1}$ | ass II |
| | ☐ The required certification and summary for class III device | xes (CC | |
| | \Box The indication for use form (required for originals received | ed 1-1-96 and after |) |
| | Material of Biological Origin 🛛 YES 🗍 NO | | |
| т | he submitter requests under 21 CFR 807.95 (doesn't apply for SEs): | | |
| | onfidentiality \Box Confidentiality for 90 days \Box Continued Co | onfidentiality excee | ding 90 days |
| P. | redicate Product Code with class: Additional Product Co 79GEI (E | de(s) with panel (o lecturagical latin of sce | Derice Cutting |
| _ Review:_ (I | Branch Chief) (Branch Code) | <u>9/3/99</u> (Dage) | Class II |
| Final Rev | iew: DOULUS | 7/10/29 | |
| | OUERINES PICE HERE PUDA/CDRH/OCE/DID at CDRH-EOISTATUS@fda K | Hsage) or 301-796-81 | 118 4 |



510(k) Submit Compare New Devices to Marketed Devices. FDA Requests Additional Information If the Relationship Between Marketed and "Predicate"

510(k) Submit

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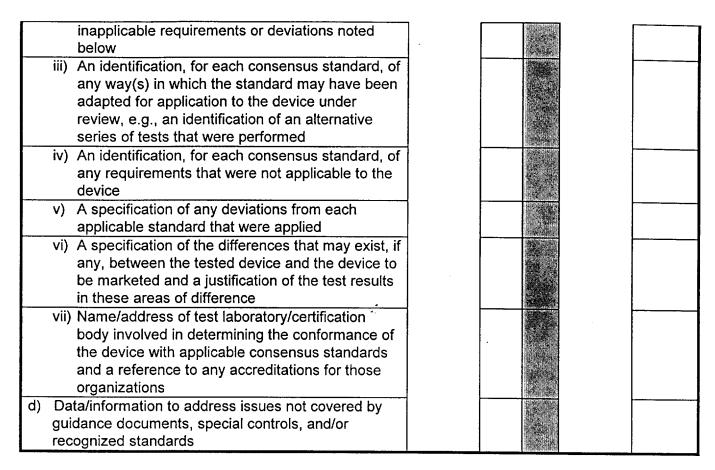
| Screening Che For all Premarket Notification | | | Subr | nissi | ons | | |
|--|-----------------------------------|--------|---|----------|--|----------|-------------------------------------|
| Device Name: RITA Model 90 Election | | 4 | | - | | 99 | 269 |
| | R | . /* | VC | 0 | | | |
| Submitter (Company): RITA Medical Jya | <u>lems</u> | \sim | A | <u>^</u> | Т | T | |
| Items which should be included (circle missing & needed information) | S P C I A L YES | NØ | B B V I A T E D YES | | R A D I T O N A L YES | NO | ✓ IF ITEI IS NEEDEI AND IS |
| Cover Letter clearly identifies Submission as: a) "Special 510(k): Device Modification" b) "Abbreviated 510(k)" c) Traditional 510(k) | GO TO # 2,3 | | go to # 2,4,5 | | GO TO #2 4,5 | | MISSING |
| | | | | | | | |
| 2. GENERAL INFORMATION: REQUIRED IN ALL 510(K) SI | JBMIS | SIONS | 8 | | | | IF ITEM |
| Financial Certification or Disclosure Statement for 510(k)s with a | | NA | YE | S | NC | 0 | |
| Clinical Study 807.87(i) | SPEC | | ABBRE | | TRADITI | | AND IS |
| | YES | NO | YES | NO | YES | NO | MISSING |
| a) trade name, classification name, establishment registration | | | | | | | |
| number, device classb) OR a statement that the device is not yet classified | JFDA-r | nav be | a classi | fication | reques | t; see d | coordinate |
| the second secon | ~ N | | | | | | |
| c) identification of legally marketed equivalent device d) compliance with Section 514 - performance standards | - N | A | | | | | |
| e) address of manufacturer | 1 | | | | | | |
| | 1 | | | | | | |
| | | | | | | | |
| | - | | | | | | |
| h) SMDA Summary or Statement (FOR ALL DEVICE CLASSES) | 17 | | | | | | |
| i) Class III Certification & Summary (FOR ALL CLASS III DEVICES) | - | | | | | | |
| j) Description of device (or modification) including diagrams, | 1 | | | | | | |
| engineering drawings, photographs, service manuals | | | | | | | |
| k) Proposed Labeling: | | 5,5800 | | | | | |
| i) package labeling (user info) ii) statement of intended use | - | 10 | | | | | |
| iii) advertisements or promotional materials | 17 | | | | | | |
| i) MRI compatibility (if claimed) | NA | | | | <u> </u> | | |
| 1) Comparison Information (similarities and differences) to named | ,. | | | | | | |
| legally marketed equivalent device (table preferred) should include: | - | | | | | 19-21- | |
| i) Labeling | - | | | | 1 | | |
| ii) intended use | | | | | <u> </u> | | |
| iii) physical characteristics iv) anatomical sites of use | - | | | | | | į |
| iv) anatomical sites of use v) performance (bench, animal, clinical) testing | | NA NA | | | | | |
| | | NA | | | | | |
| vi) safety characteristics | | 18 | | | - 24 | | <u></u> |
| vi) safety characteristics m) If kit, kit certification | N | | | | | | |
| vi) safety characteristics | | | II , III OI | R RESE | RVED C | LASS | DEVICE |
| vi) safety characteristics m) If kit, kit certification | | | II , III OI | R RESE | RVED C | LASS | DEVICE |

Questions?.contact.EDA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or 301-796-8118

| | | 1 | 1020000 2 000000000000 | | |
|---------|--|---|------------------------|------------------------------|--|
| | USE OF MODIFIED DEVICE AS DESCRIBED IN ITS LABELING HAVE NOT CHANGED* | - | | | |
| C) | STATEMENT - FUNDAMENTAL SCIENTIFIC TECHNOLOGY OF THE MODIFIED DEVICE HAS NOT CHANGED* | - | | * If no - STOP not a special | |
| d) | Design Control Activities Summary | ~ | | | |
| | i) Identification of Risk Analysis method(s) used to assess the impact of the modification on the device and its components, and the results of the analysis | / | | | |
| | Based on the Risk Analysis, an identification of the verification and/or validation activities required, including methods or tests used and acceptance criteria to be applied | - | | | |
| | iii) A declaration of conformity with design controls. The declaration of conformity should include: | - | | | |
| | A statement signed by the individual responsible, that, as required by the risk analysis, all verification and validation | - | | - | |
| | activities were performed by the designated individual(s) and the results demonstrated that the predetermined acceptance criteria were met | - | | | |
| | A statement signed by the individual responsible, that manufacturing facility is in conformance with design control procedure | / | | | |
| | Requirements as specified in 21 CFR 820.30 and the records are available for review. | - | | | |

| | | SPEC | IALS | ABBRE | /IATED | TRADI | TIONAL | ✓ IF ITEM IS NEEDED |
|----|---|------|------|-------|--|-------|---------|---------------------------|
| | | YES | NO | YES | NO | YES | NO | AND IS MISSING |
| 4. | ABBREVIATED 510(K): SPECIAL CONTROLS/CONFORMA FILL OUT THE STANDARDS ABBREVIATED FORM ON T | | | | ED STA | NDAF | RDS - F | LEASE |
| a) | For a submission, which relies on a guidance | | | | | | | |
| | document and/or special control(s), a summary | | | | | | | |
| | report that describes how the guidance and/or | | | | | | | |
| | special control(s) was used to address the risks | | | | | | | |
| | associated with the particular device type | | | | age a | | | |
| b) | If a manufacturer elects to use an alternate approach | | | | | | | |
| | to address a particular risk, sufficient detail should be | | | | | | | |
| | provided to justify that approach. | | | | | | | |
| c) | For a submission, which relies on a recognized | | | | | | | |
| | standard, a declaration of conformity to the standard. | | | | | | | |
| | The declaration should include the following: | | | | $\hat{\mathcal{I}}_{i} \in \mathbb{R}^{d}$ | | | |
| | i) An identification of the applicable recognized | | | | | | | |
| | consensus standards that were met | | | | 18-25-2 | | | |
| | ii) A specification, for each consensus standard, | | | | | | _ | |
| | that all requirements were met, except for | | | | 1995 | | 7 | |

Quastinns?, Contact F.DA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or 301-796-8118



| 5. Ad | ditional Considerations: (may be covered by Desig | n Contr | ols) | | | |
|------------|--|---------|------|------|---|-------|
| a) Bio | compatibility data for all patient-contacting materials, | | | | | |
| OR | R certification of identical material/formulation: | | | | | |
| i) | component & material | | | | - | ····· |
| ii) | identify patient-contacting materials | | | | | |
| | biocompatibility of final sterilized product | | | | | |
| b) Ste | erilization and expiration dating information: | | | | | |
| i) | sterilization method | | | | | |
| ii) | SAL | | | | | |
| iii) | packaging | | | | | |
| iv) | specify pyrogen free | | | | | |
| <u>v)</u> | ETO residues | | | | | |
| | radiation dose | | | | | |
| c) Sof | tware validation & verification: | | | | | |
| i) | hazard analysis | | | | | |
| <u>ii)</u> | level of concern | | | | | |
| <u> </u> | development documentation | | | | | |
| iv) | certification | | | | | |

Items shaded under "NO" are necessary for that type of submission. Circled items and items with checks in the "Needed & Missing" column must be submitted before acceptance of the document.

Passed Screening _ No Date:

Reviewer: unal 1 OS DB Concurrence by **Review Branch**

Remoting Contact FDA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or 301-796-8118-

REVISED:3/14/95

9

THE 510(K) DOCUMENTATION FORMS ARE AVAILABLE ON THE LAN UNDER 510(K) BOILERPLATES TITLED "DOCUMENTATION" AND MUST BE FILLED OUT WITH EVERY FINAL DECISION (SE, NSE, NOT A DEVICE, ETC.).

"SUBSTANTIAL EQUIVALENCE" (SE) DECISION MAKING DOCUMENTATION

992693 К GEORGE J. MATTAMAL Reviewer: GODB: DGRD Division/Branch:___ Accessory Electromycil 1 odel. TA 90 Device Name: 381 Product To Which Compared (510(K) Number If Known):___ K 9

YES

NO

| | | IF2 | NO |
|-----|---|--------------|--------------------------------------|
| 1. | Is Product A Device | | If NO = Stop |
| 2. | Is Device Subject To 510(k)? | \checkmark | If NO = Stop |
| 3. | Same Indication Statement? | \checkmark | If YES = Go To 5 |
| 4. | Do Differences Alter The Effect Or Raise New Issues of Safety Or Effectiveness? | | If YES = Stop NE |
| 5. | Same Technological Characteristics? | V | If YES = Go To 7 |
| 6. | Could The New Characteristics Affect Safety Or Effectiveness? | | If YES = Go To 8 |
| 7. | Descriptive Characteristics Precise Enough? | ~ | If NO = GO TO 10 If YES = Stop SE |
| 8. | New Types Of Safety Or Effectiveness Questions? | | If YES = Stop NE |
| 9. | Accepted Scientific Methods Exist? | | If NO = Stop NE |
| 10. | Performance Data Available? | | If NO = Request Data |
| 11. | Data Demonstrate Equivalence? | | Final Decision: |

Note: In addition to completing the form on the LAN, "yes" responses to questions 4, 6, 8, and 11, and every "no" response requires an explanation.

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Internal Administrative Form

| | YES | NO |
|---|-----|-------------------------------|
| Did the firm request expedited review? Did we grant expedited review? | | $\overrightarrow{\mathbf{x}}$ |
| Have you verified that the Document is labeled Class III for GMP purposes? | | |
| 4. If, not, has POS been notified? 5. Is the product a device? 6. Is the device exempt from 510(k) by regulation or policy? 7. Is the device subject to review by CDRH? | | $\boldsymbol{\times}$ |
| 8. Are you aware that this device has been the subject of a previous NSE decision? 9. If yes, does this new 510(k) address the NSE issue(s), (e.g., | | × |
| performance data)? 10. Are you aware of the submitter being the subject of an integrity investigation? 11. If, yes, consult the ODE Integrity Officer. 12. Has the ODE Integrity Officer given permission to proceed with the review? (Blue Book Memo #I91-2 and Federal Register 90N0332, September 10, 1991. | l c | × |

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SPECIAL 510(k): Device Modification Records Processed under FOIA Requebre Reviews Market Market Device Solution

To: THE FILE

RE: DOCUMENT NUMBER K 992693

DATE: August 31, 1999.

OFFICE: HFZ-410

FROM: Polymer Chemist

DIVISION: DGRD/GSDB

DEVICE NAME: RITA Model 90 Electrosurgical Accessory **COMPANY NAME:** RITA Medical Systems, Inc.

CONTACT: Ms. Erin Dignan, Director, Regulatory Affairs

&

Mr. Dan Balbierz, Vice President, Quality Assurance and Regulatory Affairs (Tel. No. 650-390-8500, Ext. 239 & Fax. 650-390-8505)

The 510(k) submission contains information/data on modifications made to the SUBMITTER'S own Class II, Class III or Reserved Class I device. The following items are present and acceptable (delete/add items as necessary):

- 1. The name and 510(k) number of the SUBMITTER'S previously cleared device: RITA Model 70 Electrosurgical Accessory (K983871).
- 2. Submitter's statement that the **INDICATION/INTENDED USE** of the modified device as described in its labeling **HAS NOT CHANGED** along with the proposed labeling which includes instructions for use, package labeling, and, if available, advertisements or promotional materials.
- 3. A description of the device MODIFICATION(S), including clearly labeled diagrams, engineering drawings, photographs, user's and/or service manuals in sufficient detail to demonstrate that the FUNDAMENTAL SCIENTIFIC TECHNOLOGY of the modified device has not changed.
- 4. **Comparison Information** (similarities and differences) to applicant's legally marketed predicate device including, labeling, intended use, physical characteristics, substantial equivalence comparison table of the subject and predicate devices in terms the number of electrodes arrays, number of thermocouples, connector, outer diameter of the electrodes, etc.

5. A Design Control Activities Summary which includes:

- a) Identification of Risk Analysis method(s) used to assess the impact of the modification on the device and its components, and the results of the analysis
- b) Based on the Risk Analysis, an identification of the verification and/or validation activities required, including methods or tests used and acceptance criteria to be applied

c) A declaration of conformity with design controls. The declaration of conformity should include:

i) A statement signed by the individual responsible, that, as required by the risk analysis, all verification and validation activities were performed by the designated individual(s) and the results demonstrated that the predetermined acceptance criteria were met, and

ii) A statement signed by the individual responsible, that the manufacturing facility is in conformance with design control procedure requirements as specified in 21 CFR 820.30 and the records are available for review.

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6. A Truthful and Accurate Statement, a 510(k) Summary of Safety and Effectiveness and the Indications for Use are provided.

Questions? Contact FDA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or 301-796-8118

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Page 2

The labeling for this modified subject device has been reviewed to verify that the indication/intended use for the device is unaffected by the modification. In addition, the submitter's description of the particular modification(s) and the comparative information between the modified and unmodified devices demonstrate that the fundamental scientific technology has not changed.

RECOMMENDATION: The submitter has provided the design control information as specified in the New 510(k) Paradigm and on this basis, I recommend the subject device, "RITA Model 90 Electrosurgical Accessory", be determined substantially equivalent to the previously cleared their own predicate device, the original RITA Model 70 Electrosurgical Accessory (K983871). The device is associated with the electrosurgical surgery and is categorized as 79 GEI (Electrosurgical Device, Cutting & Coagulation and Accessories). And the device is class II based on 21 CFR 878.4400.

8 | 31 | 99 (Date) (Reviewer's Signature) I comen with SE. Meif 9/3/99 George J. Mattamal, Ph.D. General and surgery Devices Branch **Division of General Restorative devices**

CONTACT HISTORY: The sponsor (Mr. Dan Balbierz) was contacted on 8/31/99 to learn more about the device.

Food and Drug Administration Center for Devices and Radiological Health Office of Device Evaluation Document Mail Center (HFZ-401) 9200 Corporate Blvd. Rockville, Maryland 20850

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August 16, 1999

RITA MEDICAL SYSTEMS 967 NORTH SHORELINE BLVD. MOUNTAIN VIEW, CA 94043 ATTN: ERIN DIGNAN 510(k) Number: K992693 Received: 12-AUG-1999 Product: RITA MODEL 90 ELECTROSURGICAL ACCESSORY, MODEL 90

The Center for Devices and Radiological Health (CDRH), Office of Device Evaluation (ODE), has received the Premarket Notification you submitted in accordance with Section 510(k) of the Federal Food, Drug, and Cosmetic Act (Act) for the above referenced product. We have assigned your submission a unique 510(k) number that is cited above. Please refer prominently to this 510(k) number in any future correspondence that relates to this submission. We will notify you when the processing of your premarket notification has been completed or if any additional information is required. YOU MAY NOT PLACE THIS DEVICE INTO COMMERCIAL DISTRIBUTION UNTIL YOU RECEIVE A LETTER FROM FDA ALLOWING YOU TO DO SO.

On January 1, 1996, FDA began requiring that all 510(k) submitters provide on a separate page and clearly marked "Indication For Use" the indication for use of their device. If you have not included this information on a separate page in your submission, please complete the attached and amend your 510(k) as soon as possible. Also if you have not included your 510(k) Summary or 510(k) Statement, or your Truthful and Accurate Statement, please do so as soon as possible. There may be other regulations or requirements affecting your device such as Postmarket Surveillance (Section 522(a)(1) of the Act) and the Device Tracking regulation (21 CFR Part 821). Please contact the Division of Small Manufacturers Assistance (DSMA) at the telephone or web site below for more information.

Please remember that all correspondence concerning your submission MUST be sent to the Document Mail Center (HFZ-401) at the above letterhead address. Correspondence sent to any address other than the Document Mail Center will not be considered as part of your official premarket notification submission. Because of equipment and personnel limitations, we cannot accept telefaxed material as part of your official premarket notification submission, unless specifically requested of you by an FDA official. Any telefaxed material must be followed by a hard copy to the Document Mail Center (HFZ-401).

You should be familiar with the manual entitled, "Premarket Notification 510(k) Regulatory Requirements for Medical Devices" available from DSMA. If you have other procedural or policy questions, or want information on how to check on the status of your submission (after 90 days from the receipt date), please contact DSMA at (301) 443-6597 or its toll-free number (800) 638-2041, or at their Internet address http://www.fda.gov/cdrh/dsmamain.html or me at (301) 594-1190.

Sincerely yours,

Marjorie Shulman Consumer Safety Officer Premarket Notification Staff Office of Device Evaluation Questions? Contact FDA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or 301-796-8118 Records Processed under FOIA Request # 2015-3943; Released by CDRH on \$493



Special 510(k): Device Modification

August 10, 1999

Food and Drug Administration Center for Devices and Radiological Flealth 510(k) Document Mail Center (HFZ-401) 9200 Corporate Blvd. Rockville, Maryland 20850

Reference 1: K983871 Model 70 Electrosurgical Accessory, concurrence received on 12/1/98.

Dear Sir or Madam:

In accordance with Section 510(k) of the Food, Drug, and Cosmetic Act, and in conformance with 21 CFR 807, RITA Medical Systems, Inc. is submitting this premarket notification proposing to introduce into commerce a modification to a device that has been previous cleared by the FDA. The modifications to the electrosurgical electrode accessory include: changes to the dimensions, a change in a material, and the addition of a fifth thermocouple sensor. These modifications are eligible for the **Special 510(k)** process as they have the same scientific technology and the same intended use as the predicate device.

STATEMENT OF CONFIDENTIALITY: RITA Medical Systems considers the information described in this letter and in the submission, itself, to be confidential commercial information, and therefore exempt from public disclosure. Consequently, we request that this notification be treated as confidential in accordance with 21 CFR 20.61b. All documents containing proprietary information are marked "Confidential".

STATEMENT OF SUBSTANTIAL EQUIVALENCE: The terms "substantial equivalence" and "predicate device" as used in this premarket notification are intended only to demonstrate equivalence to the predicate product for purposes of obtaining clearance of the device pursuant to the Food, Drug and Cosmetic Act. Reference to the equivalence as outlined in this submission is in no way related to the term "equivalent" or similar terminology as outlined under the patent laws.

This submission is contained in one volume. Two original copies of the submission are included for your review. If you have any questions regarding this notification or require additional information, please do not hesitate to contact me at (650) 390-8500 x239.

Respectfully submitted,

un Vigna. Erin Dignan

Director, Regulatory Affairs RITA Medical Systems, Inc.

Enclosure: Two original copies of "Special 510(k)" submission

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| Prei | market Submission Cover She | |
| Date of Submission: August 10, 1999 | FDA Document Nu | umber: |
| Section A | Type of Submission | |
| | Amendment PMA Supplement PMA Amendment Report | PMA Supplement - Regular PMA Supplement - Special PMA Supplement - 30 day PMA Supplement - Panel Track |
| Section B1 | Reason for Submission - 510(k)s | Only |
| New device | Additional or expanded indications | Change in technology, design, materials or manufacturing process |
| Other reason (specify): Special 5 | 10(k) | materials or manufacturing process |
| Section B2 | Reason for Submission - PMAs | |
| New Device Withdrawal Additional or expanded indications | Change in design, component or specification: Software | Location change: Manufacturer Sterilizer |
| Licensing agreement | Color Additive | Packager Distributor |
| Labeling Changes: Indications Instructions Performance Characteristics Shelf life Trade name Other (specify below) | Process change: Manufacturer Sterilizer Packager Response to FDA correspondence (s Request for applicant hold | |
| Change in ownership Change in correspondent Other reason (specify): | Request for removal of applicant hol Request for an extension Request to remove or add a manufaction | |
| Section B3 | Reason for Submission - IDEs | s Only |
| New device Addition of institution Expansion/extension of study IRB certification Request hearing Request waiver Termination of study Withdrawal of application | Change in: Correspondent Design Informed consent Manufacturer Manufacturing Protocol - feasibility Protocol - other | Response to FDA letter concerning Conditional approval Deemed approval Deficient final report Deficient progress report Deficient investigator repor Disapproval Request extension of time to respond to FDA Request meeting |
| Emergency use: Notification of emergency use Additional information Other reason (specify): | Report submission: Current investigator Site waiver limit reached Final | IOL submissions only: Change in IOL style Request for protocol waive |

Version 1.0 January 19, 1995 Questions? Contact FDA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or 301-796-8118

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Records Processed under FOIA Request # 2015-3943; Released by CDRH on 09-04-2015

| | <u>- 1875 - 1883 - 1</u> | | FDA Document | Number: | |
|---|---|---|--|--|--|
| Section C | | Product | Classification | | |
| Product code: | C.F.R | Section: | | Device Class: | |
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| Classification Panel | | | | Class III | Unclassified |
| General and Plas | tic Surgery | · · · · · · · · · · · · · · · · · · · | 0.000 million and a second | | |
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| 5. | 6. | 7. | 8. | 510(k) sta | tement |
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| 510(k) Number | Trad | e or proprietary or mod | lel name | | ufacturer |
| 1. K983871 | 1. RITA Mod | el 70 Electrosurgical | Accessory | 1. RITA Medica | I Systems, Inc. |
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| Company / Institution name: RITA Medical Systems, Inc. Division name (if applicable): Street address: 967 N. Shoreline Blvd. City: State / Province: Country: ZIP / Postal Code: 94043 | | | FDA Document | Number: | |
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| FDA Document Number: | | | | |
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| Section G | Ap | plicant or Sponsor | | |
| Company / Institution na | me: | | FDA establishment registration number: | |
| RITA Medical Systems | s, Inc. | | 2952363 | |
| Division name (if applica | able): | | Phone number (include area code): (650) 390-8500 x239 | |
| Street address: 967 N. Shoreline Blvd. | | | FAX number (include area code): (650) 390-8505 | |
| City: | State / Province: | Country: | ZIP / Postal Code: | |
| Mountain View | CA | USA | 94043 | |
| Signature: Chamber Name: Erin Dignan Title: Director, Regulatory Section H Company / Institution na | Submission corre | espondent (if differ | ent from above) | |
| Division name (if applic | cable): | | Phone number (include area code): | |
| Street address: | | | FAX number (include area code): | |
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| Contact title: | | | | |

Your voluntary completion of this Premarket Submission Cover Sheet will not affect any FDA decision concerning your submission, but will help FDA's Center for Devices and Radiological Health process your submission more efficiently. The information you provide should apply *only* to a single accompanying submission. Please do not send cover sheets for any previous submissions. See the instructions for additional information on completing the cover sheet. If you have questions concerning completion of the cover sheet, please contact the Division of Small Manufacturers Assistance at (800) 638-2041 or (301) 443-6597.

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Premarket Notification – Special (510(k)): Device Modification

for the

Model 90 Electrosurgical Accessory

RITA Medical Systems, Inc.

August 10, 1999

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1.0 TRUTHFUL AND ACCURACY STATEMENT

Pursuant to 21 CFR 807.87(j), I, Erin Dignan, certify that to the best of my knowledge and belief and based upon the data and information submitted to me in the course of my responsibilities as Director of Regulatory Affairs at RITA Medical Systems, Inc., and in reliance thereupon, the data and information submitted in this premarket notification are truthful and accurate and that no facts material for a review of the substantial equivalence of this device have been knowingly omitted from this submission.

....

Erin Dignan Director, Regulatory Affairs RITA Medical Systems, Inc.



2.0 GENERAL INFORMATION

2.1 APPLICANT

Applicant:RITA Medical Systems, Inc.967 North Shoreline Blvd.Mountain View, CA 94043

| Contact Person: | Erin Dignan |
|---------------------------|---------------------|
| Telephone Number: | (650) 390-8500 x239 |
| Secondary Contact Person: | Dan Balbierz |
| Telephone Number: | (650) 390-8500 x222 |
| Fax Number: | (650) 390-8505 |

2.2 DEVICE NAME

RITA® Model 90 Electrosurgical Probe

The device classification name is the same as listed in 510(k) K983871: Electrosurgical Cutting and Coagulation Accessory.

2.3 ADDRESS AND REGISTRATION NUMBERS

2.3.1 Manufacturing Facility Address

The manufacturing facility listed in K983871 has remained unchanged.

Manufacturer: RITA Medical Systems, Inc. 967 North Shoreline Blvd. Mountain View, CA 94043

2.3.2 Manufacturing Registration Number

The Establishment Registration Number is 2952363, which is unchanged from K983871.

2.4 STERILIZATION FACILITY ADDRESS



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2.5 DEVICE CLASSIFICATION

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Electrosurgical cutting and coagulation accessories have been classified as Class II Product Code GEI under Section 514 of the Food, Drug, and Cosmetic Act.

No performance standards have been established under Section 514 of the Act.



3.0 INTENDED USE

| | Indications for Use Statement |
|-----------------------------|---|
| 510(K) Number (if known) | K 992693 |
| Device Name | Model 90 Electrosurgical Probe |
| | The Model 90 Electrosurgical Probe is designed to supply energy (generated by the RITA Medical Systems' electrosurgical generator) for use in electrosurgery and is designed for the following: |
| | • Incorporation of multiple needles on each probe minimizing the number of invasive accesses necessary to achieve desired lesions. |
| | • Provide a minimally invasive laparoscopic, percutaneous, or intraoperative access to the targeted tissue. |
| | • Deliver radiofrequency energy in a controlled fashion to create coagulative necrotic lesions. |
| | • Incorporate thermocouples for temperature feedback. |
| | • Provide for local delivery of fluid. |
| PLEASE DO | O NO WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED |
| | Concurrence of CDRH, Office of Device Evaluation (ODE) |
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| | |
| | |
| | Prescription Use V OR Over the Counter Use |

(per 21 CFR 801.109)

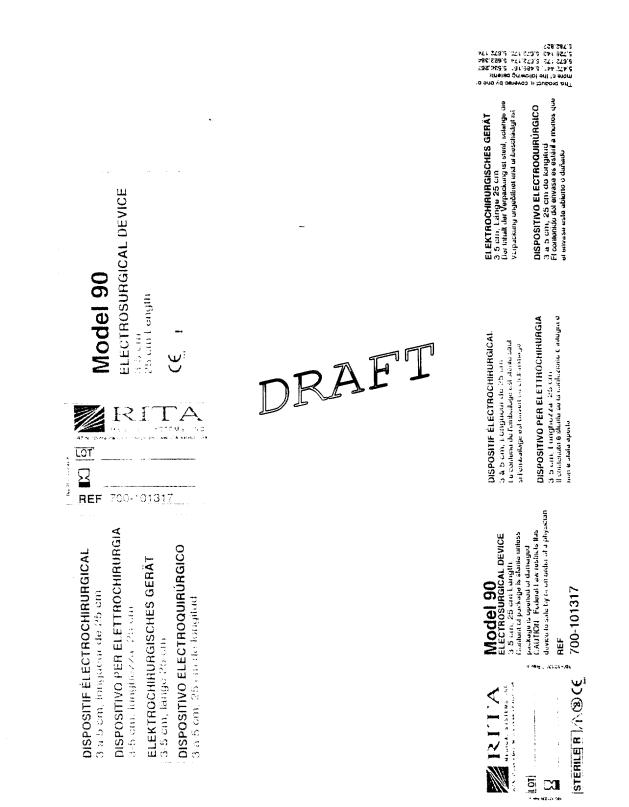
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4.0 LABELING

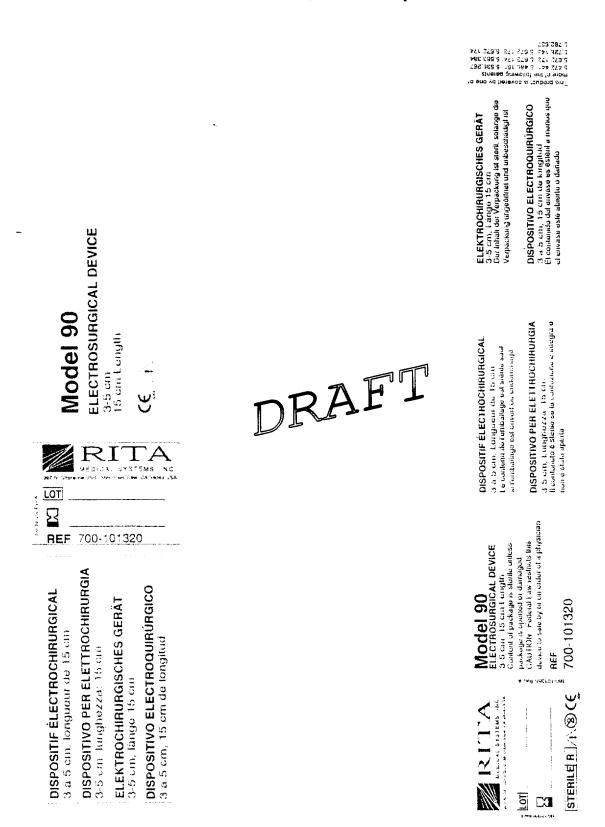
Just like the intended use, the labeling remains unchanged, except for the new model name. The following are **draft versions** of labels and Instructions for Use.



Model 90, 25 cm Device, Box and Tray Labels

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Model 90, 15 cm Device, Box and Tray Labels

Page 4-3

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Model 90 Instructions for Use



DRAFT

Model 90 Electrosurgical Device

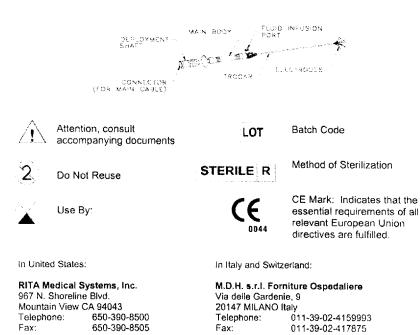
INDICATIONS: FOR TISSUE COAGULATION ONLY

FOR USE WITH THE RITA* RF GENERATOR ONLY

INSTRUCTIONS FOR USE:

After all patient preparation has been completed, the Dispersive Electrodes (2 required) have been applied according to the package instructions, and the RF Generator controls have been set to the desired settings, the following is the recommended procedure for operating the RITA* Model 90 Device:

- 1. Under sterile conditions, peel back Tyvek from tray and remove the RITA Device.
- 2. Inspect Device prior to use. If the Device is damaged, do not use.
- Before inserting the Device, fully retract the electrodes by holding the main body in place and pulling on the deployment shaft disk.
- 4. If fluid delivery is desired, remove the luer cap and attach a syringe, and prime with appropriate solution.
- 5. Using ultrasound guidance, place the Device by holding along the main body. Do not hold the deployment shaft handle during placement, as this could inadvertently cause deployment of the array. The tip of the trocar should be placed approximately 1cm proximal to the center of the target area.
- 6. After Device placement is complete, deploy the electrodes slowly by holding the main body in place (with light forward pressure) and pushing on the deployment shaft disk. (Monitor deployment on ultrasound to ensure that it is deployed properly into the intended area.)
- Connect one end of the Main Cable to the Device and the other end to the Generator.
- 8. Use a single Device for a maximum of four ablations.



RITA is a registered trademark of RITA Medical Systems, Inc.

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5.0 DEVICE DESCRIPTION

5.1 **DESCRIPTION**

This RITA device is available in 15-cm and 25-cm lengths for a variety of medical applications. The secondary electrodes deploy out (up to approximately 4 cm) from the trocar tip. The RITA device consists of the following components:

- *primary electrode*: stainless-steel hypodermic tubing with a portion exposed as an electrode
- secondary electrodes: stainless-steel extendible flexible hypodermic tubing at the distal end of probe
- trocar insulation: fixed clear polyester shrink tubing
- *handle*: K-resin and ABS with markings to indicate the amount of electrode array deployment from the trocar
- *RF pathway*: connection through nine-pin Lemo connector built into the handle
- *fluid infusion*: delivery through Luer port at side of the handle
- *temperature sensors*: Five temperature sensors at the periphery of the array
- *depth indicators*: Incremental 1 cm marks denote needle penetration depth

5.2 DISCUSSION OF MODIFICATIONS

The predicate Model 70 device is used to transfer RF energy in the creation of necrotic lesions, using seven extendable electrodes (arrays) made of 304 stainless steel. The Model 90 device is used to transfer RF energy in the creation of necrotic lesions, using nine extendable electrodes (arrays) made of 304 stainless steel.

| The (b) (4) | change | (b) (4) | | | | |
|----------------|--------|---------|--|--|--|--|
| (D) (4) | | | | | | |
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The material of the main body of the handle of the Model 90^{(b) (4)}

Additionally, the material of the nose cone of the handle was changed from PVC to a new material, K-resin. This material was chosen for its clear appearance before and after e-beam sterilization.

6.1 COMPARISON

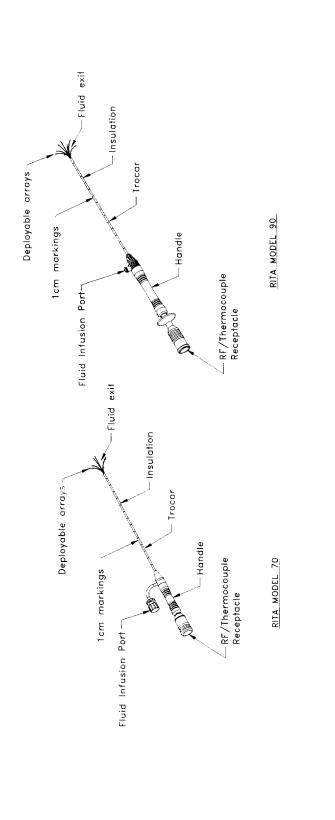


Figure 5-1: Device Diagram



CONFIDENTIAL

Table 5-1 compares the Model 90 to the predicate device (Model 70) in more detail. Note that the shaded areas highlight dimensional and material changes between the two devices.

| | RITA Medical Systems | | | |
|----------------------------|--|--|--|--|
| Feature | Model 70 | Model 90 | | |
| 510(k) # | K983871 | To be assigned | | |
| Intended Use | To supply energy (generated by the RITA Medical Systems' Model 500 electrosurgical generator) for use in electrosurgery. | To supply energy (generated by the RITA Medical Systems' Model 500 electrosurgical generator) for use in electrosurgery. | | |
| Number of electrode arrays | 7† | (b) (4) | | |
| Array Material | 304 Stainless Steel | 304 Stainless Steel | | |
| Array Wire Outer Diameter | 0.016 inches | 0.016 inches | | |
| RF Coagulation | Yes | Yes | | |
| Insulation on Electrode | Yes | Yes | | |
| Thermocouples on Arrays | Yes | Yes | | |
| Number of Thermocouples | 4 | (b) (4) | | |
| RF Delivery | Monopolar | Monopolar | | |
| Connector | 6 pin Lemo | (b) (4) | | |
| Outer Diameter | 15 Ga. | | | |
| Handle Material(s) | PVC & ABS | | | |
| Useable Length | 15 cm & 25 cm | 15 cm & 25 cm | | |
| Fluid Infusion Port | Yes | Yes | | |
| Available Lengths | 15 cm & 25 cm | 15 cm & 25 cm | | |
| Sterilization | Electron Beam | Electron Beam | | |

Table 5-1: Product Comparison Table

(b) (4)

6.2 SUMMARY

In summary, the modified Model 90 Electrosurgical Probe has the following similarities to the Model 70 Electrosurgical Probe, which has previously received 510(k) clearance:

- Has the same intended use,
- Uses the same operating principle,
- Incorporates the same basic electrosurgical probe design,
- Can create comparable lesions,
- Incorporates most of the same materials,
- Has the same shelf life, and
- Is packaged and sterilized using the same materials and processes.

Thus, the Model 90 Electrosurgical Probe described in this submission is, in our opinion, substantially equivalent to the predicate device.

7.0 DESIGN CONTROLS

7.1 SUMMARY OF DESIGN CONTROL ACTIVITIES

The risk analysis method used to assess the impact of the modifications was a Failure Modes and Effects Analysis (FMEA). The design verification tests that were performed as a result of this risk analysis assessment are listed in **Table 7-1**. The Spherical Lesion Test was done to verify that size and shape of the lesions are comparable to that of the previous device. Testing to verify conformance to AMMI/ANSI HF – 18 and IEC 601-2-2 was conducted. The array dimensions were verified. Sharpness was assessed to ensure smooth tissue penetration. Echogenicity was verified under ultrasound. Extraction forces were evaluated to ensure that the electrode could be extracted with minimal tissue trauma, in the unlikely event that the arrays would not retract. Leakage and flow rate testing was conducted on the fluid infusion port. The strength of the array joints was tested to ensure arrays are firmly attached to the body of the device. Finally, biocompatibility testing was performed on the new material. Biocompatibility testing was not repeated for the other materials since they are the same as those used in the Model 70 device.

| | Test | Test Sample | Acceptance Criteria | Results |
|---------|------|-------------|---------------------|---------|
| (b) (4) | | | | |
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| (b) (4) | | | | |
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Table 7-1: Design Verification Tests

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7.2 DECLARATION OF CONFORMITY WITH DESIGN CONTROLS

Verification Activities All verification activities, as required by the risk analysis, were performed by the designated individual(s) and the results demonstrated that the predetermined acceptance criteria were met.

Dan Balbierz VP, Research and Development

Manufacturing Facility

The manufacturing facility, RITA Medical Systems, Inc. is in conformance with the design control requirements as specified in 21 CFR 820/30 and the records are available for review.

11/59

8/10/99

Date

Ron Steckel VP, Operations and Quality Assurance

K992693

8.0 510(K) SUMMARY OF SAFETY AND EFFECTIVENESS

| General | Trade Name: Model 90 Electrosurgical Probe | | | | |
|--------------------------|--|--|--|--|--|
| Provisions | Common/Classification Name: Electrosurgical cutting and coagulation accessory | | | | |
| Name of Predicate | RITA Medical Systems Inc Model 70 Electrosurgical Probe | | | | |
| Classification | Class II | | | | |
| Performance Standards | Performance standards have not been established by the FDA under section 514 of the Food, Drug and Cosmetic Act. | | | | |
| Intended Use | The Model 90 Electrosurgical Probe is designed to supply energy (generated by the RITA Medical Systems' Electrosurgical Generator) for use in electrosurgery and is designed for the following: | | | | |
| | Incorporation of multiple needles on each probe minimizing the number of invasive accesses necessary to achieve desired lesions. | | | | |
| | • Provide a minimally invasive laparoscopic, percutaneous, or intraoperative access to the targeted tissue. | | | | |
| | • Deliver radiofrequency energy in a controlled fashion to create coagulative necrotic lesions. | | | | |
| | Incorporate thermocouples for temperature feedback. | | | | |
| | • Provide for local delivery of fluid. | | | | |
| Device Description | This RITA® Model 90 device is available in 15 cm and 25 cm lengths for a variety of medical applications. The secondary electrodes deploy out from the trocar tip. The RITA Model 90 device consists of the following components: | | | | |
| | • <i>primary electrode</i> : stainless-steel hypodermic tubing with a portion exposed as an electrode | | | | |
| | • secondary electrodes: stainless-steel extendible flexible hypodermic tubing at the distal end of probe | | | | |
| | • trocar insulation: fixed clear polymer shrink tubing | | | | |
| | • <i>handle</i> : polymer materials with markings to indicate the amount of electrode array deployment from the trocar | | | | |
| | • <i>RF pathway</i> : connection through a Lemo connector built into the handle | | | | |
| | • <i>fluid infusion</i> : delivery through Luer port at side of the handle | | | | |
| | • <i>temperature sensors</i> : Five temperature sensors at the periphery of the array | | | | |
| | • <i>depth indicators</i> : Incremental 1-cm marks denote needle penetration depth. | | | | |
| Performance Data | The Model 90 devices were subjected to a battery of electrical, mechanical, and biocompatibility testing to verify that the devices met the specifications. The devices met the specifications and the materials did not elicit toxicological responses. | | | | |
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