JUL 3 1 1997

510(k) SUMMARY

This summary of 510(k) safety and effectiveness information is submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

510(k) Number: K965001

Applicant Information:

Date Prepared:

June 20, 1997

Name:

Intuitive Surgical, Inc. 1340 W. Middlefield Road

Address.

Mountain View, California 94043 415-237-7036

Contact Person:

Michael A. Daniel

Phone Number: Facsimile Number: (415) 237-7036 (415) 526-2060

Device Information:

Classification:

Surgical Table and Accessories Class I / II

Endoscope and Accessories

Gynecologic Laparoscope and Accessories

Trade Name:

Intuitive Surgical, Endoscopic Instrument Control System

Accessories: "Resposable" (limited reuse) Instruments consisting

of Retractors and Blunt Dissectors

Common Name:

Endoscopic Instrument Control System

Endoscope and Accessories for Minimally Invasive Surgery

Classification Name: Surgical Table and Accessories,

21 CFR 878.4960

Endoscope and Accessories,

21 CFR 876.1500

Gynecologic laparoscope and acces. 21 CFR 884.1720

Predicate Devices:

The Intuitive Surgical Endoscopic Instrument Control System and Tools are substantially equivalent in intended use and/or method of operation to a combination of the following predicate devices:

- Computer Motion AESOP Laparoscope Positioning and Control System 1.
- Adronic Devices Endex (originally "Adept") Instrument Positioning Accessory (IPA) 2.
- And various atraumatic Class I Exempt surgical instruments including the US Surgical 3. Auto Suture Endoscopic Fan Retractor (K914190), Inman Medical Corp. Endoscopic Blunt Dissector (K933169) and Medical Perspectives Corp. Kittner Dissector (K953059)

510(k) SUMMARY

(Continued)

Device Description:

The Intuitive Surgical Endoscopic Instrument Control System is an electro-mechanical device consisting of a Surgical Console including "Master Manipulators", articulated Instrument Control Arms or "Slave Manipulators" and Limited Reuse Tools or end effectors.

Intended Use:

The Intuitive Surgical Endoscopic Instrument Control System is intended for precise and accurate control of selected tracoscopic and laparoscopic instruments including, rigid laparoscopes, blunt endoscopic dissectors, and endoscopic retractors, during thoracoscopic and laparoscopic surgical procedures. It is intended to be used by trained professionals in operating room environments.

Comparison to Predicate Device(s):

The Intuitive Surgical Endoscopic Instrument Control System and Resposable Tools are substantially equivalent to a combination of the Computer Motion AESOP Laparoscope Positioning and Control System, the Adept/Andronic Laparoscopic Positioning and Manipulation System and various other Class I Exempt endoscopic instruments in terms of intended use and basic functionality. The Intuitive System is substantially equivalent to both the Computer Motion and Andronic devices in terms of the capability of precisely moving and controlling endoscopic tools. The Intuitive system is substantially equivalent to the cited predicates in terms of the tissue effects.

In Vitro Test Data:

Design analysis and in vitro data confirm that basic functional characteristics are substantially equivalent to the predicate devices sited. Testing included evaluation of reproducibility, hysteresis, and functional adequacy. All data fell well within both internal specification requirements as well as external standard requirements and predicate performance expectations.

Summary:

Based upon the product technical information provided, intended use, and performance information provided in this pre-market notification, the Intuitive Surgical Endoscopic Instrument Control System has been shown to be substantially equivalent to currently marketed predicate devices.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Mr. Michael A. Daniel
Vice President, Regulatory/Clinical Affairs & Quality Assurance
Intuitive Surgical, Inc.
1340 W. Middlefield Road
Mountain View, California 94304

JUL 3 1 1997

Re: K965001

Trade Name: Intuitive Surgical Endoscopic Instrument Control System

Regulatory Class: II Product Code: GCJ Dated: June 30, 1997 Received: July 1, 1997

Dear Mr. Daniel:

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. The substantial equivalence determination for the Intuitive Surgical Endoscopic Instrument Control System includes use with rigid endoscopes and the following manual surgical instruments only: (1) the IntuitiveTM Retractor, (2) the IntuitiveTM Blunt Dissector, (3) the IntuitiveTM Kitner, and (4) the IntuitiveTM Stablizer manual instrument tips.

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 requirements, 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.

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 <u>in vitro</u> diagnostic devices), please contact the Office of Compliance at (301) 594-4586. 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,

Celia M. Witten, M.D., Ph.D.

Director,

Division of General and Restorative Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Prescription Use V
Per 21 CFR 801 109)

510(k) Number (if known): K965001
Device Name: Intuitive Surgical Endoscopic Instrument Control System
Indications For Use:
The Intuitive Surgical Endoscopic Instrument Control System is intended for accurate control of selected endoscopic instruments including, rigid endoscopes, blunt endoscopic dissectors and endoscopic retractors during thoracoscopic and laparoscopic surgical procedures. It is intended to be used by professionals in operating room environments.
(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE) (Division Sign-Off) Division of General Restprative Devices 15500 510(k) Number

OR

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Over-The-Counter Use

(Optional Format 1-2-96)