KO32//4
Sequoia Diagnostic Ultrásound System
510(k) Submission

510(k) SUMMARY

JUL 21 2003

Sequoia Diagnostic Ultrasound System

This summary of safety and effectiveness is provided as part of this Premarket Notification in compliance with the Safe Medical Device Act of 1990 revisions to 21 CFR, Part 807.92, Content and Format of a 510(k) Summary.

1. Submitted By:

Siemens Medical Solutions USA, Inc., Ultrasound Division 1230 Shorebird Way PO Box 7393 Mt. View, California 94039-7393

Contact Person Mr. Jerry W. Tsutsumi Regulatory Affairs Department Phone: (650) 943-7286 Fax: (650) 961-6168

Date Prepared

29 January 2003

2. Proprietary Name:

Seguoia Diagnostic Ultrasound System

Common/ Usual Name:

Diagnostic Ultrasound System with Accessories

Classification Name:

21 CFR 892.1550

Ultrasonic Pulsed Doppler Imaging System	FR# 892.1550	Product Code 90-IYN
Ultrasonic Pulsed Echo Imaging System	FR# 892.1560	Product Code 90-IYO
Diagnostic Ultrasound Transducer	FR# 892.1570	Product Code 90-ITX
Diagnostic Intravascular Catheter	FR # 870.1200	Product Code 90-DQO

3. Predicate Device:

K022567 (8/13/2002) cleared as Axius Edge Assisted Ejection Fraction, FreeStyle Extended Imaging and several new transducers (V7M TEE, 8L5T, 10V4, 13L5SP and 4V1c) for the Sequoia Diagnostic Ultrasound System Signature II.

4. Device Description:

The Sequoia is a general purpose, mobile, software-controlled, diagnostic ultrasound system with an on-screen display for thermal and mechanical indices related to potential bioeffect mechanisms. Its function is to acquire primary or secondary harmonic ultrasound echo data and display it in B-mode, M-mode, Pulsed (PW) Doppler mode, Continuous (CW) wave Doppler mode, color Doppler mode, Power Amplitude Doppler mode, a combination of these modes, Harmonic Imaging, or 3D imaging, on a CRT display.

The Sequoia diagnostic ultrasound system has been designed to conform to the following product safety standards:

- UL 2601-1, Safety Requirements for Medical Equipment
- CSA C22.2 No. 601-1, Safety Requirements for Medical Equipment
- AIUM/NEMA UD-2, 1998, Acoustic Output Measurement Standard for Diagnostic Ultrasound
- AIUM/NEMA UD-3, 1998, Standard for Real Time Display of Thermal and Mechanical Acoustic Output Indices on Diagnostic Ultrasound Equipment
- 93/42/EEC Medical Devices Directive
- Safety and EMC Requirements for Medical Equipment
- EN 60601-1
 - EN 60601-1-1
 - EN 60601-1-2
- IEC 1157 Declaration of Acoustic Power
- ISO 10993 Biocompatibility
- The systems acoustic output is in accordance with ALARA (as low as reasonably achievable) principle

5. Intended Uses:

The Sequoia diagnostic ultrasound system is intended for the following:

General Imaging and Cardiology for Fetal, Abdominal, Intraoperative (abdominal and neurological), Pediatrics, Small Organs (breast, testes, thyroid, penis and prostate), Neonatal/Adult Cephalic, Cardiac (adult, pediatric and neonatal), Trans-esophageal, Transrectal, Transvaginal, Peripheral Vessel, and Musculo-skeletal (superficial and conventional) applications, and intended uses as defined in the FDA guidance document.

The system also provides for the measurement of anatomical structures and analysis packages that provide information that is used for clinical diagnosis purposes.

6. Technological Comparison to Predicate Device:

The Sequoia is substantially equivalent in its technologies and functionality to the Sequoia Diagnostic Ultrasound System Signature II, that is already cleared for USA distribution under 510(k) premarket notification number K022567.

The Sequoia functions in the same manner as other diagnostic ultrasound systems, in that they transmit ultrasonic energy into the body via a transducer. In the body, acoustic impedance of different tissues reflect different amounts of ultrasound energy back to the transducer, where post processing of received echoes is performed to generate two-dimensional on-screen images of anatomic structures and fluid flow within the body. Doppler principles are used to process reflected ultrasound energy to display moving blood as a spectrum, or as color-coded two-dimensional images. All predicate devices listed above, allow for specialized measurements of structures and flow, and provide various calculations functions.

End of 510(k) Summary





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Siemens Medical Solutions USA, Inc. % Ms. Laura Danielson Responsible Third Party 510(k) Program Manager TÜV Product Service 1775 Old Highway 8 NW, Suite 104 NEW BRIGHTON MN 55112-1891

JUL 21 2003

Re: K032114

Trade Name: Sequoia 8.0 Diagnostic Ultrasound System

Regulation Number: 21 CFR 892.1550

Regulation Name: Ultrasonic pulsed doppler imaging system

Regulation Number: 21 CFR 892.1560

Regulation Name: Ultrasonic pulsed echo imaging system

Regulation Number: 21 CFR 892.1570

Regulation Name: Diagnostic ultrasonic transducer

Regulatory Class: II

Product Code: 90 IYN, IYO, and ITX

Dated: July 8, 2003 Received: July 9, 2003

Dear Ms. Danielson:

We have reviewed your Section 510(k) premarket 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 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). 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.

This determination of substantial equivalence applies to the following transducers intended for use with the Sequoia 8.0 Diagnostic Ultrasound System, as described in your premarket notification:

Transducer Model Number

```
6C2
            8C4
           EC10c5
           EV8C4
            6L3
AcuNav IC10V5/10F10 (Catheter)
            8L5
            8L5T
           13L5SP
            15L8
           15L8w
          V5M TEE
          V7M TEE
          V7B TEE
            3V2c
            4V1
        4V1c (Sirius)
            4V2
            5V2c
            7V3c
           Gemini
            8V5
            10V4
          AUX CW
```

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.

This determination of substantial equivalence is granted on the condition that prior to shipping the first device, you submit a postclearance special report. This report should contain complete information, including acoustic output measurements based on production line devices, requested in Appendix G, (enclosed) of the Center's September 30, 1997 "Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers." If the special report is incomplete or contains unacceptable values (e.g., acoustic output greater than approved levels), then the 510(k) clearance may not apply to the production units which as a result may be considered adulterated or misbranded.

The special report should reference the manufacturer's 510(k) number. It should be clearly and prominently marked "ADD-TO-FILE" and should be submitted in duplicate to:

Food and Drug Administration Center for Devices and Radiological Health Document Mail Center (HFZ-401) 9200 Corporate Boulevard Rockville, Maryland 20850

This letter will allow you to begin marketing your device as described in your 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 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) 594-4591. 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 at (301) 443-6597 or at its Internet address "http://www.fda.gov/cdrh/dsmamain.html".

If you have any questions regarding the content of this letter, please contact Rodrigo C. Perez at (301) 594-1212.

Sincerely yours,

Daniel A. Symm for Nancy C. Brogdon

Director, Division of Reproductive, Abdominal and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure(s)

510(k) Number (if known):

Device Name: Intended Use:

80 Sequoia Diagnostic Ultrasound System

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	Α	В	м	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		Р	Р	Р	Р	Р	Р		P*	Р	P
Abdominal		Р	Р	Р	₽	Р	P		P*	P	P
Intraoperative Abdominal		Р	Р	Р	Р	Р	Р		P*	Р	Р
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		P*	Р	Р
Pediatric		Р	Р	Р	Р	Р	Р		P*	P	Р
Small Organ (Specify) **		Р	Р	Р	Р	Р	Р		P*	Р	Р
Neonatal Cephalic		Р	Р	Р	P	P	Р		P*	Р	Р
Adult Cephalic		Ρ	Р	Р	P	P	Р		₽*	Р	P
Cardiac		Р	Р	Р	Р	Р	Р		₽*	Р	P
Trans-esophageal		Р	Р	Р	P	Р	Р		P*	Р	P
Transrectal		Р	Р	Р	Р	Р	Р		P*	Р	P
Transvaginal		Р	₽	P	Р	Р	P		P*	Р	Р
Transurethral											
Intravascular		<u> </u>									
Peripheral vessel		Р	P	Р	Р	Р	Р		₽*	Р	P
Laparoscopic											
Musculo-skeletal Conventional		Р	Р	Р	Р	Р	Р		P*	P	Р
Musculo-skeletal Superficial		Р	Р	Р	Р	Р	P		P*	Р	Р'
Other (specify) ***		Р	P	Р	P	Р	Р		Ρ*	Р	Р

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Commer	ts:
*Combinations incli	ide: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Dor	pler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler
** small organs (bre	ast, testes, thyroid, penis, prostate)
*** neonatal cardia	<u> </u>

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)
Prescription Use (Per 21 CFR 801.109)
Division of Reproductive, Abdominal, and Radiological Devices
510(k) Number

510(k) Number (if known):

Device Name:

4C1

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

	<u> </u>						Mode of Oper	ation			
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		Ρ	Р	Р	Р	Р	Р		P*	Р	Р
Abdominal		Р	Р	Р	Р	Р_	Р		P*	Р	P
Intraoperative Abdominal											
Intraoperative Neurological											
Pediatric		Р	Р	Р	P	₽	Р		P*	Р	Р
Small Organ (Specify) **		Р	Ρ	Р	P	Р	Р		P*	Р	Р
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N	N	N	N	N		N*	N	N
Trans-esophageal											
Transrectal											
Transvaginal									[
Transurethral											
Intravascular											
Peripheral vessel		N	N	N	N	N	N		N*	N	N
Laparoscopic											
Musculo-skeletal Conventional										4	
Musculo-skeletal Superficial											
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional	Comments:	

*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler, B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number

^{**} small organs (breast, testes, thyroid, penis, prostate)

510(k) Number (if known):

Device Name:

5C2

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	A	В	м	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal		Р	Р	Р	Р	P	Р		₽*	Р	P
Abdominal		Р	Р	Р	Р	Р	Р		₽*	_ P	Р
Intraoperative Abdominal Intraoperative											
Neurological			l								
Pediatric		Р	Р	Р	Р	Р	Р		P*	P	P
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac				·			i				
Trans-esophageal			[
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		N	N	N	8	N	N		N*	N	N
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify) ***			Ì				[]		<u> </u>		

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Combinations include: B+M,	B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
3+PWD+Color Doppler, B+P	ower Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number.

510(k) Number (if known):

Device Name:

6C2

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

					<u> </u>		Mode of Oper	ation			
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal		Р	Ρ	P	P	Р	P		P*	Р	P
Abdominal		Р	Ρ	Р	Р	Р	Р		P*	P	P
Intraoperative Abdominal		Р	P	Р	Р	Р	Р		P*	Р	Р
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		P*	Р	Р
Pediatric		Р	Р	Р	Р	Р	Р		P*	Р	Р
Small Organ (Specify) **		Р	Р	Р	Р	Р	Р		p*	Р	Р
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N	N	N	N	N_		N*	N	N
Trans-esophageal										l	
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		Р	Р	Р	P	Р	Р		P*	Р	P
Laparoscopic											
Musculo-skeletal Conventional								:			
Musculo-skeletal Superficial											
Other (specify) ***									<u></u>		

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:
*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler
:

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number

510(k) Number (if known):

Device Name:

8C4

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		P	Р	Р	Р	Р	Р		P*	P	Р
Abdominal		Р	Р	Р	P	Р	P		P*	Р	Р
Intraoperative Abdominal		Р	Р	Р	Р	Р	Р		P*	Р	Р
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		P*	Р	Р
Pediatric		Р	Р	Р	Р	Р	P		P*	Р	Р
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N	N	N	N	N		N*	N	N
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral						į					
Intravascular											
Peripheral vessel		N	N	N	N	N	N		N*	N	N
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial										ı	
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

*Combinations include	te: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Dopp	oler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler

(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)

(Division Sign-Off)

Division of Reproductive, Abdomina

and Radiological Devices

510(k) Number

510(k) Number (if known):

Device Name:

EC10c5

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

				<u> </u>			Mode of Oper	ation			
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal				<u> </u>							<u> </u>
Abdominal											
Intraoperative Abdominal											
Intraoperative Neurological											
Pediatric											
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Trans-esophageal			L								
Transrectal		P	Р	Р		P	Р	·	P*	Р	P
Transvaginal		P	Р	Р		Р	. Р		P*	Р	P
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											
Musculo-skeletal Conventional										-	
Musculo-skeletal Superficial		! 									
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:	
*Combinations include: B+M, B+PWD, B+Color Doppler, B+M+Color Doppler, B+PWD+Color Doppler,	
B+Power Doppler, B+PWD+Power Doppler, B+M+Power Doppler	

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number.

510(k) Number (if known):

Device Name:

EV8C4

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal		Ρ	P	P	Р	Р	P		P*	Р	Р
Abdominal		Р	P	P	P	Р	Р		P*	Р	Р
Intraoperative Abdominal Intraoperative											
Neurological Pediatric	-			-							
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Trans-esophageal								 			
Transrectal											
Transvaginal		P	P	P	P	Р	P		P*	P	Р
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

*Combinations include:	B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler	, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler
· · · · · · · · · · · · · · · · · · ·	

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number ___

510(k) Number (if known):

Device Name:

6L3

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

	Ī					 	Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		N	N	N	N	N	N		N*	N	N
Abdominal											
Intraoperative Abdominal		Р	P	Р	Р	Р	Р		P*	Р	Р
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		P*	Р	Р
Pediatric											
Small Organ (Specify) **		P	Р	Р	Р	Р	P		₽*	Р	P
Neonatal Cephalic											
Adult Cephalic											l
Cardiac		N	N	N	N	N	N		N*	N	N
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		P	Р	Р	P	Р	Р		P*	Р	Р
Laparoscopic											
Musculo-skeletal Conventional		Р	Р	Р	Р	Р	P		P*	Р	P
Musculo-skeletal Superficial		Р	Р	Р	Р	Р	Р		₽*	Р	Р
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional	Comments:
------------	-----------

*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler, B+PWD+Color Doppler, B+PWD+Power Doppler, B+M+Power Doppler, B+M+P

(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 Reproductive, Abdominal, and Radiological Devices 2032//4
510(k) Number

^{**} small organs (breast, testes, thyroid, penis, prostate)

510(k) Number (if known):

Sequoia Diagnostic Ultrasound System, Harmonic Imaging Device Name:

AcuNav (IC10V5 or 10F10) diagnostic ultrasound catheter Transducer.

For intra-cardiac and intra-luminal visualization of cardiac and great

vessel anatomy and physiology, and visualization of other devices in the Intended Use:

heart - use in right heart only.

		Mode of Operation									
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal											
Abdominal											
Intraoperative Abdominal											
Intraoperative Neurological											
Pediatric											
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		Р	Р.	P	Р	Р	Р		₽*		
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify)***		Р	Р	Р	Р	Р	Р		P*		

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:	
*Combinations include: B+M, B+PWD, B+CWD, B+Col	lor Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B+Power Doppler, B+PWD+P	ower Doppler, B+CWD+Power Doppler, B+M+Power Doppler
*** Other = Intra-luminal and Intra-cardiac	

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal and Radiological Devices

510(k) Number

510(k) Number (if known):

Device Name:

8L5

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal											
Abdominal											
Intraoperative Abdominal		P	P	Р	Р	P	Р		P*	Р	Р
Intraoperative Neurological		Р	P	Р	Р	Р	Р		P*	Р	Р
Pediatric											
Small Organ (Specify) **		Р	Р	Р	Р	Р	Р		P*	Р	Р
Neonatal Cephalic											
Adult Cephalic											
Cardiac	l	N	N	N	N	N	N		N*	N	N
Trans-esophageal											·
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		P	P	P	Р	Р	Р		P*	Р	Р
Laparoscopic											
Musculo-skeletal Conventional		Р	Р	Р	P	P	Р		₽*	Р	Р
Musculo-skeletal Superficial		Р	Р	P	Р	Р	Р		P* :	P	Р
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional	Com	ımer	ıts:

*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler, B+PWD+Color Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler, B+M

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number -

^{**} small organs (breast, testes, thyroid, penis, prostate)

510(k) Number (if known):

Device Name:

8L5T

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal											
Abdominal											
Intraoperative Abdominal		Р	Р	Р	Р	Р	Р		P*	Р	Р
Intraoperative Neurological		Р	P	Р	Р	Р	Р	·	₽*	P	Р
Pediatric		Р	Р	Р	Р	Р	P		P*	Р	Р
Small Organ (Specify) **		Р	Р	Р	Р	Р	P		P*	P	Р
Neonatal Cephalic											
Adult Cephalic											
Cardiac		Р	Р	Р	Р	Р	Р		P*	Р	P
Trans-esophageal											
Transrectal			L								
Transvaginal											
Transurethral			<u> </u>								
Intravascular											
Peripheral vessel		Р	Р	Р	Р	Р	Р		P*	P	Р
Laparoscopic											
Musculo-skeletal Conventional		P	Р	Р	Р	Р	Р		₽*	Р	Р
Musculo-skeletal Superficial		Р	Р	Р	Р	Р	Р		P*	Р	P
Other (specify) ***							· l		LI		

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:
*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler

(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)

(Division Sign-Off)

Division of Reproductive, Abdominat

and Radiological Devices

510(k) Number _

^{**} small organs (breast, testes, thyroid, penis, prostate)

510(k) Number (if known):

Device Name:

13L5SP

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal			l	!							
Abdominal											
Intraoperative Abdominal		P	Р	Р	Р	Р	Р		P*	Р	Р
Intraoperative Neurological		Ρ	Р	Р	P	Р	Р		P*	P	Р
Pediatric		Р	Р	Р	Р	Р	Р		P*	Р	Р
Small Organ (Specify) **		Р	Р	Р	Р	P	Р		р+	Р	P
Neonatal Cephalic											
Adult Cephalic											
Cardiac		Ρ	Р	Р	Р	Р	Р		P*	Р	Р
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		Р	Р	Р	Р	Р	Р		P*	P	Р
Laparoscopic											
Musculo-skeletal Conventional		Р	Р	Р	Р	Р	Р		P*	Р	Р
Musculo-skeletal Superficial		P	Р	Р	Р	Р	P		P*	Р	P
Other (specify) ***											<u> </u>

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional	Comments:
------------	-----------

*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler, B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Padiological Devices

510(k) Number _

^{**} small organs (breast, testes, thyroid, penis, prostate)

510(k) Number (if known):

Device Name:

15L8

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ration			
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal											
Abdominal											
Intraoperative Abdominal		Р	Р	Р	Р	Р	Р		P*	Р	Р
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		p+	Ρ	P
Pediatric		N	N	N	N	N	N		N*	N	N
Small Organ (Specify) **		Р	Р	Р	Р	Р	Р		P*	Р	Р
Neonatal Cephalic											
Adult Cephalic											
Cardiac		۵.	Р	Р		Р	P		P*	Р	Р
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		Р	Р	Р	Р	Р	P		Ρ*	Р	Р
Laparoscopic											
Musculo-skeletal Conventional		Р	Ρ	Ρ	Р	Р	Р		₽*	Р	Р
Musculo-skeletal Superficial		P	P	Р	Р	Р	Р		P*	Р	Р '
Other (specify) ***									- 1		

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional	Comments:	

*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler, B+PWD+Color Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler, B+M

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number _

^{**} small organs (breast, testes, thyroid, penis, prostate)

510(k) Number (if known):

Device Name:

15L8w

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

				<u></u>			Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CMD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other: Harmonic Imaging	Other :
Ophthalmic											
Fetal		Р	Р	P		Р	Р		P*		Р
Abdominal		Р	Р	Р		Р	Р		P*		Р
Intraoperative Abdominal		Р	Р	Р		Р	Р		P*		Р
Intraoperative Neurological		Р	Р	Р		Р	Р		P*		Р
Pediatric		Р	Р	Р		Р	Р		P*		Р
Small Organ (Specify) **		Р	Р	Р		Р	Р		P*		Р
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		Р	Р	Р		Р	Р		P*		Р
Laparoscopic											
Musculo-skeletal Conventional		Р	P	Р		Р	Р		P*		Р
Musculo-skeletal Superficial		Р	Р	Р		Р	Р		₽*	ί 	Р
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

	_
Additional	Comments:

B+Power Doppler, B+PWD+Power Doppler, B+M+Power Doppler

(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)

sion Sign-Off)

on of Reproductive, Abdominal,

adiological Devices
Number

5 ' ...

^{*}Combinations include: B+M, B+PWD, B+Color Doppler, B+M+Color Doppler, B+PWD+Color Doppler,

^{**} small organs (breast, testes, thyroid, penis, prostate)

510(k) Number (if known):

Device Name:

V5M TEE

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal											
Abdominal		Р	Р	P	Р	P	Р		P⁺	P	Р
Intraoperative Abdominal											
Intraoperative Neurological											
Pediatric		Р	Р	Р	Р	Р	Р			P	Р
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		P	Р	P	Р	P	P		Ρ*	Р	P
Trans-esophageal		Р	Р	P	Р	Р	P		P*	Р	Р
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											,
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

*Combinations include: B+M, B+PWI	D, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B+Power Do	ppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler

(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)

(Division 4

Off)

roductive, Abdominal,

al Devices

510(k) Number (if known):

Device Name:

V7M TEE

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	A	В	м	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal											
Abdominal		P	P	Р	P	P	Р		P*	Р	Р
Intraoperative Abdominal Intraoperative											
Neurological											
Pediatric		P	Р	Р	P	Р	Р		P*	Р	P
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		P	Р	P	Р	Р	P		₽*	Р	Р
Trans-esophageal		P	Р	Р	Р	Р	Р		P*	Р	Р
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

*Combinations include:	B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
	B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler
:	

(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) (Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number.

510(k) Number (if known):

Device Name:

V7B TEE

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal			<u> </u>	<u> </u>							_
Abdominal		Р	Р	P	P	Р	Р		P*	Р	P
Intraoperative Abdominal Intraoperative Neurological											
Pediatric		P	Р	P	P	P	Р		₽*	Р	Р
Small Organ (Specify) **		•									
Neonatal Cephalic											_
Adult Cephalic											
Cardiac		Р	P	Р	P	Р	P		P*	P	Р
Trans-esophageal		Р	Р	Р	Р	Р	Р		P*	Р	Р
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

ombinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Dopple
PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power D

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number.

510(k) Number (if known):

Device Name:

3V2c

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

	<u> </u>						Mode of Oper	ation			
Clinical Application	A	В	м	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		P	Р	P	Р	Р	Р		P*	Р	Р
Abdominal		Р	Р	P	Р	Р	Р		P⁺	P	Р
Intraoperative Abdominal											
Intraoperative Neurological											
Pediatric		Р	Р	Р	Р	P	Р		P*	Р	P
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic		Р	Р	Р	P	Р	Р		P*	Р	Р
Cardiac		Р	Р	Р	P	Р	Р		P*	Р	P
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											·
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											í
Other (specify) ***		Р	Р	Р	P	Р	P		P*	P	P

N = new indication; P = previously cleared by FDA; E = added under Appendix E

B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler	include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler
	Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Dop

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices

510(k) Number _

510(k) Number (if known):

Device Name:

4V1

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

-	Π	Mode of Operation									
Clinical Application	А	В	м	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		Р	Р	Р		Р	P		P*	Р	Р
Abdominal		Р	Р	Р		Р	Р		P*	Р	P
Intraoperative Abdominal		Ρ	Р	Р		Р	P		P⁺	Р	Р
Intraoperative Neurological											
Pediatric		Р	Р	Р		Р	P		P*	P	P
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac		N	N	N		N	N		N*	N	N
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral			<u> </u>								
Intravascular											
Peripheral vessel		N	N	N		N	N		N*	N	<u>N</u>
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

A 44:4		C	ments:
Addit	ionai	Com	ments:

*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler, B+PWD+Color Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler, B+M

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices 510(k) Number _____

510(k) Number (if known):

Device Name:

4V1c (Sirius)

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

						-	Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal		Р	Р	Р	Р	Р	Р		P*	Р	Р
Abdominal		Р	Р	Р	Р	Ρ	P		ρ+	Ρ	Р
Intraoperative Abdominal		Р	Р	Р	P	Р	Р		p•	Р	Р
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		P*	Р	Р
Pediatric		Р	Р	Р	Р	Р	Р		p+	P	Р
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic		Р	Р	Р	Р	Р	Р		P*	Р	Р
Cardiac		Р	Р	Р	Р	Р	P		P⁺	Р	Р
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular										·	
Peripheral vessel		P	Р	Р	Р	Р	Р		P*	Р	Р
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify) ***		Р	Р	P	Р	Р	Р		P*	Р	P

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:	
*Combinations include: B+	M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B-	+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler
:	
*** neonatal cardiac	

(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)

(Division Sign-Off)

Division of Reproductive, Abdominal,

and a divisional Devices

10 / 5xt Number

510(k) Number (if known):

Device Name:

4V2

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

							Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		Р	Р	Р	Р	P	P		P*	Р	Р
Abdominal	i	Р	Р	Р	Р	P	Р		P*	P	Р
Intraoperative Abdominal Intraoperative Neurological											
Pediatric		Р	Р	Р	Р	Р	Р		P*	P	P
Small Organ (Specify) **											
Neonatal Cephalic											
Adult Cephalic											
Cardiac											
Trans-esophageal											
Transrectal			<u> </u>	1							
Transvaginal											
Transurethral								·			
Intravascular			<u> </u>								-,
Peripheral vessel			<u> </u>						[
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial								:			•
Other (specify) ***											

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments: *Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+PWD+Color Doppler, B+Power Dop
B+PWD+Power Doppler

(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)

(Diversion Sign-Off)

Davesion of Reproductive, Abdominal

Hed Radiological Devices

SIO(k) Number.

510(k) Number (if known):

Device Name:

5V2c

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

		Mode of Operation									
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		Р	Р	Р	Р	Р _	P		P*	Р	Р
Abdominal		Р	Р	Р	P	Ρ	Ρ		ρ•	P	P
Intraoperative Abdominal											
Intraoperative Neurological											
Pediatric		Р	Р	Р	P	Р	Р_		P*	Р	P
Small Organ (Specify) **								·			
Neonatal Cephalic											
Adult Cephalic											
Cardiac		Р	Р	Р	P	Р	Р		P*	Р	P
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		N	N	N	N	N	N		N*	N	N
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial										•	·
Other (specify) ***		Р	Р	Р	P	Р	P		P*	Р	P

N:	= new ir	ndication:	: P = previously	cleared by FI	DA: E =	added under	Appendix E

Additional Comments:
*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler
*** neonatal cardiac

(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)

(Division Sign-Off)
Division of Reproductive, Abdominal, and Radiological Devices
510(k) Number

510(k) Number (if known):

Device Name:

7V3c

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

	j						Mode of Oper	ation			
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		Р	P	Р	P	Р	Р		P*	Р	Р
Abdominal		P	P	Р	Р	Р	Р		Ρ*	Р	Р
Intraoperative Abdominal		Р	Р	Р	Р	Р	Р		P*	P	Р
Intraoperative Neurological		Р	Р	Ρ	Р	Р	Р		P*	Р	Р
Pediatric		Р	Р	Р	Ρ	Ρ	Р		₽*	Р	P
Small Organ (Specify) **											
Neonatal Cephalic		Р	P	Р	Р	Р	Р		₽*	Р	Р
Adult Cephalic											
Cardiac		Р	Р	Р	P	Р	Р		P*	Р	P
Trans-esophageal											
Transrectal											
Transvaginal						,					
Transurethral											
Intravascular								·—			
Peripheral vessel		N	N	N	N	N	N		N*	N	N
Laparoscopic											
Musculo-skeletal Conventional						-					
Musculo-skeletal Superficial											
Other (specify) ***		Р	Р	Р	Р	Р	Р		P*	Р	Р

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:	
*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color	Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD	+Power Doppler, B+M+Power Doppler
:	
*** neonatal cardiac	

(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)

(Division Sign-Off)
Division of Reproductive, Abdominal and Birdiological Devices
510(k) Number

510(k) Number (if known):

Device Name:

Gemini

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation										
Clinical Application	Α	В	М	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D
Ophthalmic											
Fetal		N	N	N	N	N	N		N*	N	
Abdominal		N	N	N	N	N	N		N*	N	
Intraoperative Abdominal		N	N	N	N	N	N		N*	N	
Intraoperative Neurological		N	N	N	2	N	N		N*	N	
Pediatric		N	N	N	N	N	N		N*	N	
Small Organ (Specify) **											
Neonatal Cephalic		Z	N	N	N	N	N		N*	N	
Adult Cephalic											
Cardiac		N	N	N	N	N	N		N*	N	
Trans-esophageal											
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel											
Laparoscopic											
Musculo-skeletal Conventional											
Musculo-skeletal Superficial											
Other (specify) ***		N	N	N	8	N	N		N*	N	

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:	
*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Doppler,	
B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler	
*** neonatal cardiac	

(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)

(Division Sign-Off)
Division of Reprodu

Division of Reproductive, Abdominal, and Radiological Devices

510(k) Number _

510(k) Number (if known):

Device Name:

8V5

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

		Mode of Operation									
Clinical Application	А	В	М	PWD	CMD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :
Ophthalmic											
Fetal		Р	Р	P	P_	Р	Р		P⁺	Р	P
Abdominal		Р	Р	Р	P	Р	Ρ		P*	Р	P
Intraoperative Abdominal		Р	Р	Р	Р	Р	Р		₽⁺	Р	Р
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		₽*	Р	Р
Pediatric		Р	Р	Р	Р	Р	Р		P⁺	Р	Р
Small Organ (Specify) **											
Neonatal Cephalic		Р	Р	Р	Р	Р	Р		P*	Р	Р
Adult Cephalic											
Cardiac		Р	P	Р	Р	Р	P		P*	Р	Р
Trans-esophageal									Ĺ		
Transrectal											
Transvaginal											
Transurethral											
Intravascular											
Peripheral vessel		N	N	N	N	N	N		N*	N	N
Laparoscopic											
Musculo-skeletal Conventional					<u>.</u>						
Musculo-skeletal Superficial											
Other (specify) ***		Р	Р	Р	Р	P	Р		P*	Р	Р

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional Comments:	· · · · · · · · · · · · · · · · · · ·
*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M	+Color Doppler, B+CWD+Color Doppler,
B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B-	+CWD+Power Doppler, B+M+Power Doppler
*** neonatal cardiac	,

(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)

(Division Sign-Off)
Division of Reproductive, Abdominal
and Hadiological Devices

. rki Number.

510(k) Number (if known):

Device Name:

10V4

Intended Use:

Ultrasound imaging or fluid flow analysis of the human body as follows:

		Mode of Operation										
Clinical Application	А	В	м	PWD	CMD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other : 3D	
Ophthalmic							,					
Fetal		P	Р	Р	Р	Р	Р		P*	Р .	Р	
Abdominal		Р	Ρ	Р	Р	Р	Р		Ρ*	Р	Р	
Intraoperative Abdominal		Р	Р	Р	Р	Р	Р		P*	Р	Р	
Intraoperative Neurological		Р	Р	Р	Р	Р	Р		₽*	Р	Р	
Pediatric		Р	Р	P	Р	Р	P		P*	Р	Р	
Small Organ (Specify) **		Р	P	Р	Р	Р	Р		P*	Р	Р	
Neonatal Cephalic		Ρ	Р	P	Р	Р	Р		P*	Р	Р	
Adult Cephalic												
Cardiac		Р	Р	Р	Р	Р	Р		P*	Р	Р	
Trans-esophageal												
Transrectal												
Transvaginal												
Transurethral												
Intravascular												
Peripheral vessel										·		
Laparoscopic												
Musculo-skeletal Conventional												
Musculo-skeletal Superficial										ı		
Other (specify) ***		Р	Р	Р	P	Р	P		₽*	Р	Р	

N = new indication; P = previously cleared by FDA; E = added under Appendix E

Additional	Comments
------------	----------

*Combinations include: B+M, B+PWD, B+CWD, B+Color Doppler, B+M+Color Doppler, B+CWD+Color Dop B+PWD+Color Doppler, B+Power Doppler, B+PWD+Power Doppler, B+CWD+Power Doppler, B+M+Power Doppler

(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)

(Pivision Sign-Off)

Division of Reproductive, Abdominal

and Radiological Devices

510(k) Number

^{**} small organs (breast, testes, thyroid, penis, prostate)

^{***} neonatal cardiac

Intended Use:

Diagnostic Ultrasound Indications for Use Form

510(k) Number (if known):	
Device Name:	AUX CW
Intended Use:	Ultrasound imaging or fluid flow analysis of the human body as follows:

		Mode of Operation											
Clinical Application	А	В	м	PWD	CWD	Color Doppler	Power (Amplitude) Doppler	Color Velocity Imaging	Combined (Specify)	Other : Harmonic Imaging	Other :		
Ophthalmic													
Fetal										 			
Abdominal													
Intraoperative Abdominal													
Intraoperative Neurological													
Pediatric					Р								
Small Organ (Specify) **													
Neonatal Cephalic													
Adult Cephalic													
Cardiac					Р								
Trans-esophageal				ł									
Transrectal													
Transvaginal													
Transurethral				<u> </u>									
Intravascular													
Peripheral vessel					Р								
Laparoscopic													
Musculo-skeletal Conventional													
Musculo-skeletal Superficial													
Other (specify)***									j i				

N = new indication; P = previously cleared by FDA; E = added under Appendix E	
Additional Comments:	

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

Prescription Use (Per 21 CFR 801.109)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off) Division of Reproductive, Abdominal, and Radiological Devices 510(k) Number _