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SEP 26 2008



LARSEN & TOUBRO LIMITED

ELECTRICAL BUSINESS GROUP - ELECTRONIC PRODUCTS

Mysore Works, KIADB Industrial Area, Hebbal - Hootagalli, Mysore - 570 018 ■ Tel : (91) - 821 - 2402561 ■ Fax : (91) - 821 - 2402468

E - Mail :

Ref :

Date: 20.02.2008

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510(K) SUMMARY

(Per section 807.92 ©)

CONTACT DATA			
Submitter's Name		Larsen & Toubro Limited	
Address		KIADB Industrial Area, Hebbal Hootagalli, Mysore - 570018, Karnataka, INDIA	
Telephone	91-821-2405439	Fax	91-821-2402468
Contact Person	A.B.Deshpande	Title	Head - Quality Assurance & Management Representative
E-Mail address		DeshpandeAB@myw.ltindia.com	
Date the summary was prepared		20 th Feb, 2008	

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DEVICE	
Trade name	GALAXY 55
Common name	Patient Monitoring System
Classification name	Vital Signs Monitor

PREDICATE DEVICE IDENTIFICATION			
CFR21 Section	870.2300	Product code (optional)	MWI
Classification panel	Cardiovascular		
Device Class	Class II		
Legally marketed Comparison Device / K#	<ul style="list-style-type: none">STAR 55 Patient Monitoring System (L&T Medical Equipments & systems) / K 080173		



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DEVICE DESCRIPTION

GALAXY 55 is a multi-parameter patient monitoring system for continuous monitoring of the physiological parameters ECG (3/5 lead), Respiration, NIBP, IBP, Temperature, SpO₂, CO₂ & Gas monitoring.

GALAXY 55 is a 8-channel monitor with 15"/17"/19" external monitor display capable of displaying ECG, Respiration, SpO₂, CO₂, digital values of HR/PR, SpO₂, RR, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean), Invasive Blood Pressure (Systolic, Diastolic and Mean), Temperature, EtCO₂, FiCO₂, N₂O, O₂, EtAA and FiAA readings. It has selective 24/48/72 Hours tabular and graphical trends. It has special feature of NIBP having a trend of storing last 240 readings. It has Alarm Recall facility with last 24 patient alarms details. It has a two-channel thermal array recorder for printing of Tabular trends & waveforms. It has got optional communication features – USB, RS232, Infrared remote and Ethernet. The device permits patient monitoring with adjustable alarm limits as well as visible and audible alarm signals.

INTENDED USE OF THE DEVICE

The Galaxy 55 multi-parameter Patient Monitoring system is intended to monitor a single adult, pediatric or neonatal patient's vital signs at the bedside along with the appropriate accessories mentioned / supplied with the unit. Vital signs parameters include ECG (3 lead /5 lead), SpO₂, Respiration, Temperature, Capnography (CO₂) & optional Gas module unit. It can also display the digital values of HR/PR, SpO₂, RR, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean), Invasive Blood Pressure (Systolic, Diastolic and Mean), Temperature, EtCO₂, FiCO₂, N₂O, O₂, EtAA and FiAA readings.

The user, responsible to interpret the monitored data made available, will be a professional health care provider. The device permits patient monitoring with adjustable alarm limits as well as visible and audible alarm signals. The monitor is not intended for home use.



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TECHNOLOGICAL CHARACTERISTICS OF THE DEVICE COMPARED TO THE PREDICATE DEVICE

Device: Larsen & Toubro limited make GALAXY 55 Patient Monitoring System.

Predicate device:

- STAR 55 patient Monitoring System (Make: L&T Medical Equipments & systems) / K 080173

The parameters available with the Larsen & Toubro Limited make GALAXY 55 Patient monitoring system are available with the predicate devices - Larsen & Toubro Limited make STAR 55 patient monitoring system

Comparison of all the parameters of GALAXY 55 to that of the predicate devices is given in the "Predicate device comparison table" document.

Compliance to standards:

The following international standards are referred.

IEC 60601-1 Medical Electrical safety

IEC 60601-1-2 EMC compliance

Conclusion:

Based on the Technological characteristics of GALAXY 55 and its comparison with that of predicate devices Star 55, Larsen & Toubro Limited believes that their device is substantially equivalent to this predicate Monitor and doesn't pose any additional risk on safety & effectiveness of the device.

(N Ravindran)

Head - Design & Development



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

SEP 26 2008

Larsen & Toubro Limited
c/o Underwriters Laboratories, Inc. (Third Party Review)
Mr. Ned Devine
Senior Staff Engineer
333 Pfingsten Road
Northbrook, IL 60062

Re: K082685
Trade/Device Name: Galaxy 55
Regulation Number: 21 CFR 870.2300
Regulation Name: Cardiac Monitor (including cardiometer and rate alarm)
Regulatory Class: Class II (two)
Product Code: MWI
Dated: September 2, 2008
Received: September 15, 2008

Dear Mr. Devine:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with

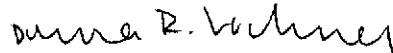
Page 2 – Mr. Ned Devine

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 letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



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

Enclosure

Indications for Use

510(k) Number (if known) K082685

Device name: **Galaxy 55**

Indication for use:

The Galaxy 55 multi-parameter Patient Monitoring system is intended to monitor a single adult, pediatric or neonatal patient's vital signs at the bedside along with the appropriate accessories mentioned / supplied with the unit. Vital signs parameters include ECG (3 lead /5 lead), SpO₂, Respiration, Temperature, Capnography (CO₂) & optional Gas module unit. It can also display the digital values of HR/PR, SpO₂, RR, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean), Invasive Blood Pressure (Systolic, Diastolic and Mean), Temperature, EtCO₂, FiCO₂, N₂O, O₂, EtAA and FiAA readings.

The user, responsible to interpret the monitored data made available, will be a professional health care provider. The device permits patient monitoring with adjustable alarm limits as well as visible and audible alarm signals. The monitor is not intended for home use.

Prescription Use
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The -Counter Use
(Part 21 CFR 801 Subpart C)

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

Diana R. Verdine
(Division Sign-Off)
Division of Cardiovascular Devices

510(k) Number K082685

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