



LARSEN & TOUBRO LIMITED

ELECTRICAL & ELECTRONICS DIVISION - ELECTRONIC PRODUCTS

Mysore Complex, KIADB Industrial Area, Hebbal - Hootagalli, Mysore - 570 018 • Tel : +91(821) 2402561 • Fax : +91(821) 2402468

E - Mail :

Ref :

21st May, 2005

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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	
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Contact Person	A.B.Deshpande	Title	Head – Quality Assurance & Management Representative
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Date the summary was prepared		21 st May,2005	



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DEVICE	
Trade name	STELLAR 404T
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">PLANET patient Monitoring System (L&T Medical Equipments & systems) / K032871STELLAR 404 Patient Monitoring System (L&T Medical Equipments & systems) / K042560		



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DEVICE DESCRIPTION

This STELLAR 404T unit is a 3 parameter Patient monitor System (TFT color monitor) with NIBP, Pulse oximetry and Temperature with an inbuilt two channel thermal array recorder for printing of Tabular trends & waveforms.

STELLAR 404T has waveform display capability for Plethysmograph. It also displays the digital values of PR, SpO₂, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean) and Temperature readings. It has graded and color coded alarms. It has 2 hours and 12 hours tabular and graphical trends for SpO₂ and Temperature. It has special tabular trend for NIBP to store the last 100 readings. Alarm recall feature offers last 16 alarm conditions.

INTENDED USE OF THE DEVICE

The STELLAR 404T 3 parameter Patient Monitoring system is intended to monitor a single adult, pediatric or neonatal patient's vital signs at the bedside or during intra-hospital transport along with the appropriate accessories mentioned / supplied with the unit. Vital signs parameter includes Plethysmograph. It can also display the digital values of PR, SpO₂, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean) and Temperature readings.

The user, responsible to interpret the monitored data made available, will be a professional health care provider. The device, which can also be used as a portable 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 STELLAR 404T Patient Monitoring System.

Predicate device:

- PLANET patient Monitoring System (Make: L&T Medical Equipments & systems) / K032871
- STELLAR 404 Patient Monitoring System (Make: L&T Medical Equipments & systems) / K042560

The parameters available with the Larsen & Toubro Limited make STELLAR 404T Patient monitoring system (NIBP, Pulse oximetry and Temperature) are also available with the predicate device. The range and accuracy of the parameters & method of sensing are similar to the predicate devices. In STELLAR 404T monitor audible & visual alarms are provided similar to that in the Predicate device.

STELLAR 404T has got TFT color display like PLANET. STELLAR 404T has got thermal array recorder similar to that available in PLANET. Battery provided in STELLAR 404T is Lithium ion, where as it is Lead acid battery in case of predicate device PLANET.

Comparison of all the parameters of STELLAR 404T to that of the predicate devices is given in the "Substantial Equivalence Equipment comparison" document.

Compliance to standards:

The following international standards are referred.

IEC 60601-1 Medical Electrical Equipment-General requirement for safety

IEC 60601-1-2 Medical Electrical Equipment-EMC requirements & tests

Conclusion:

Based on the Technological characteristics of STELLAR 404T and its comparison with that of predicate device PLANET, 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



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

JAN 20 2006

Larsen & Toubro Ltd.
c/o Mr. Neil E. Devine Jr.
Intertek Testing Services NA, Inc.
70 Codman Hill Road
Boxborough, MA 01719

Re: K060058

Trade Name: Stellar 404T
Regulation Number: 21 CFR 870.2300
Regulation Name: Cardiac Monitor (including cardiometer and rate alarm)
Regulatory Class: Class II (two)
Product Code: MWI
Dated: January 6, 2006
Received: January 9, 2006

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.

Page 2 – Mr. Neil E. Devine, Jr.

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 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 (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Bram D. Zuckerman for".

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) K06005@

Device name: **STELLAR 404T**

Indication for use :

The STELLAR 404T - three parameter Patient Monitoring system is intended to monitor a single adult, pediatric or neonatal patient's vital signs at the bedside or during intra-hospital transport along with the appropriate accessories mentioned / supplied with the unit. Vital signs parameter includes Plethysmograph. It can also display the digital values of PR, SpO₂, Non-Invasive Blood Pressure (Systolic, Diastolic and Mean) and Temperature readings.

The user, responsible to interpret the monitored data made available, will be a professional health care provider. The device, which can also be used as a portable 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 AND/OR Over-The-Counter Use
(Part 21 CFR 801 Subpart D) (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)

Bhimmanna
(Division Sign-Off)
Division of Cardiovascular Devices
510(k) Number K060058