

**Reg Model: SDC006  
(Rosewood7X)  
Certification  
Report**



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**Issue Date: 7 January 2020  
Revision 3.0**

## Safety Certification

### Test Objective:

Verifies that product meets the required Safety requirements as stipulated by UL, and TUV Safety Agencies; and also European Directives:

- UL 60950-1
- TUV EN 60950-1, IEC 60950-1, EN 62368-1, IEC 62368-1

### Test Description:

The product was submitted to and tested by the safety agencies.

The product is certified for cUL mark through UL Singapore under Underwriter Laboratories (UL) file E190397. Attached is the Notice of Authorization to apply the cUL mark.

The product is certified for TUV SUD mark through TUV SUD PSB Corporation. Attached is the TUV SUD Certificate.

### Pass/Fail Criteria:



Product meets the stipulated Safety requirements.

### Product:

**Product Name: SDC006 (Rosewood7X)**

### Conclusion:

The unit passed the above safety tests and standards. Due to similarities in the SDC006 drives, it was only necessary to test one model in order to pass for all models.

Agency / Standards	Conclusion	Approved to Bear Agency's Marks
UL60950-1	Compliance with applicable cUL	
TUV EN 60950-1, IEC 60950-1 TUV EN 62368-1, IEC 62368-1	Compliance with IEC60950, EN60950, IEC62368, EN62368	

NOTICE OF COMPLETION  
AND  
AUTHORIZATION TO APPLY THE UL MARK



2017-04-05

MR. WEIQIANG HUI  
Seagate Singapore International Headquarters Pte Ltd  
The Shugart  
26 Ayer Rajah Crescent  
Singapore, 139944, SG

Our Reference:	File E190397, Vol X1	Order:	11665100
Your Reference:	SK-724535	Project:	4787883884
Project Scope:	Investigation for Internal Hard Disk drive, Model SDC006.		

Dear MR. WEIQIANG HUI:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E190397, Vol X1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site: <http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Shiau Hui Chiang  
Project Engineer  
ShiauHui.Chiang@ul.com

Reviewed by:

Bruce A. Mahrenholz  
CPO Director  
Bruce.A.Mahrenholz@ul.com

8d553e26-b324-4d9e-98ad-329b5027dfc5

## UL TEST REPORT AND PROCEDURE

<b>Standard:</b>	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
<b>Certification Type:</b>	Component Recognition
<b>CCN:</b>	NWGQ2, NWGQ8 (Information Technology Equipment Including Electrical Business Equipment)
<b>Product:</b>	Internal Hard Disk Drive
<b>Model:</b>	SDC006
<b>Rating:</b>	5Vdc, 1.0A (Optional)
<b>Applicant Name and Address:</b>	SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD THE SHUGART 26 AYER RAJAH CRESENT SINGAPORE 139944 SINGAPORE

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Chiang Shiau Hui

Reviewed by: CheeBeng Wai



	Ref. Certif. No.
	SG PSB-OF-01590



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

## CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product	Hard disk drive
Name and address of the applicant	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent Singapore 139944, SINGAPORE
Name and address of the manufacturer	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent, Singapore 139944, SINGAPORE
Name and address of the factory	Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA For further information please see attachment
Ratings and principal characteristics	+5V, 1.0A, Class III
Trade mark (if any)	Seagate
Model/type Ref.	SDC006
Additional information (if necessary)	See test report for Group and National Differences.
A sample of the product was tested and found to be in conformity with	IEC 60950-1:2005 IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013
as shown in the Test Report Ref. No. which forms part of this certificate	TÜV SÜD PSB Pte Ltd 7191159089-EEC17/CKY

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

Date,	2017-04-17 CBS 17 04 61811 148	 (Serena Yeo)	 PSB Singapore
TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221			

Page 1 of 2



Ref. Certif. No.


SG PSB-OF-01590

**Additional factory information:**

Name and address of the factory  
*Nom et adresse de l'usine*

Seagate Technology (Thailand) Ltd  
90 Moo 15, Tambol Sungnoen, Amphur Sungnoen,  
Nakhon Ratchasima 30170, Thailand

Date, 2017-04-17  
CBS 17 04 61811 148

Signature:   
(Serena Yeo)



PSB Singapore

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221



Ref. Certif. No.

SG PSB-IV-01043

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

### CB TEST CERTIFICATE

Product	Hard disk drive (Hard Disk Drive)
Name and address of the applicant	<b>Seagate Technology International</b> The Shugart, 26 Ayer Rajah Crescent Singapore 139944 SINGAPORE
Name and address of the manufacturer	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent, Singapore 139944, SINGAPORE
Name and address of the factory	Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur, Sungnoen, Nakhon Ratchasima 30170, THAILAND  Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	+5V, 1.0A, Class III
Trade mark	SEAGATE
Model/type Ref.	SDC006
Additional information (if necessary)	EN 62368-1:2014+A11:2017. See test report for National and Group Difference
A sample of the product was tested and found to be in conformity with as shown in the Test Report Ref. No. which forms part of this certificate	IEC 62368-1:2014 7191223980-EEC19/NCH1

This CB Test Certificate is issued by the National Certification Body

CBS 061811 0168 Rev. 00  
Date, 2019-12-20

( KIM HOCK TEO )

Page 1 of 1  
TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221



PSB Singapore



Product Service

# CERTIFICATE

No. B 17 04 61811 151

**Holder of Certificate:** **Seagate Technology International**

The Shugart, 26 Ayer Rajah Cresent  
 Singapore 139944  
 SINGAPORE



**Certification Mark:**



**Product:** **Hard disk drive**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 7191159089-EEC17/CKY

**Valid until:** 2019-06-19



**Date,** 2017-04-24

( Kim Hock Teo )

Page 1 of 2



Product Service

**CERTIFICATE**  
**No. B 17 04 61811 151**

**Model(s):**                    **SDC006**

**Brand Name:**                **Seagate**

**Parameters:**                Rated Current     :     1.0 A  
   Rated Voltage     :     5 VDC  
   Protection Class:     III

**Tested according to:**        EN 60950-1:2006/A2:2013  
   IEC 60950-1:2005  
   IEC 60950-1:2005/AMD1:2009  
   IEC 60950-1:2005/AMD2:2013

**Production Facility(ies):**    64076, 61810

TÜV SÜD  
ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

# CERTIFICATE

No. B 061811 0170 Rev. 00

**Holder of Certificate:** **Seagate Technology International**

The Shugart, 26 Ayer Rajah Crescent  
Singapore 139944  
SINGAPORE

**Certification Mark:**



**Product:** **Hard disk drive**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 7191223980-TR

**Valid until:** 2024-12-18

**Date,** 2019-12-30

  
( KIM HOCK TEO )



# CERTIFICATE

No. B 061811 0170 Rev. 00

**Model(s):** SDC006

**Brand Name:** Seagate

**Parameters:**

Rated Current : 1.0 A  
Rated Voltage : 5 VDC  
Protection Class : II|

**Tested according to:** IEC 62368-1:2014  
EN 62368-1:2014/A11:2017

**Production Facility(ies):** 064076, 061810



# ElectroMagnetic Compatibility

## Test Objective:

Verify that the product, which is an internal computer peripheral with no direct connection to external I/O or power, meets applicable EMC emission and immunity standards when installed in a representative host system. This is done by verifying that the product, in the system, complies with the appropriate limits for FCC, CE Mark, RCM, and VCCI. For FCC, applicable limits are found in CFR 47, Part 15, Subpart B, Class B, and for CE, RCM, and VCCI are found in EN 55032. Immunity requirements for CE Marking are defined in EN 55024.

## Test Description:

Testing is performed with the drive installed in representative host system. The host system in this case, is a Notebook laptop and the drive is exercised random write/read mode for all testing. The drive is monitored for correct operation throughout the testing.

Emission testing (performed at a 10m Chamber) and immunity testing are performed at an EMC facility, which has been certified by SAC-SINGLAS.

Emission testing consists of the following:

1. Conducted emissions, 150 kHz to 30 MHz, 110 Vac/60 Hz (FCC)
2. Conducted emissions, 150 kHz to 30 MHz, 230 Vac/50 Hz (CE, RCM, VCCI)
3. Radiated emissions, 30 MHz to 1 GHz, 10-meter antenna distance
4. Radiated emissions, 1 GHz to 6 GHz, 3-meter antenna distance
5. AC power line harmonics, per EN61000-3-2 : 2014
6. AC power line flicker, per EN61000-3-3: 2013

Immunity testing includes the following:

1. Electrostatic discharge per IEC 61000-4-2 (Level B)
2. Radiated RF field immunity per IEC 61000-4-3 and EN 50204 (Level A)
3. Electrical Fast Transient/Burst per IEC 61000-4-4 (Level B)
4. Surge Immunity per IEC 61000-4-5 (Level B)
5. Conducted RF Immunity per IEC 61000-4-6 (Level A)
6. Power Frequency H-field Immunity per IEC 61000-4-8 (Level A)
7. Voltage Dips and Interruptions per IEC 61000-4-11 (Level B, C)

## Pass/Fail Criteria:

For immunity testing, the drive must meet different levels of performance (A, B or C) for the various RF environments to which it is exposed. These are defined as follows:

Performance Level A - no degradation in performance, no loss of data

Performance Level B - degraded performance acceptable provided that 1) no data is lost and 2) unit self-recovers without user intervention after the RF environment has been withdrawn

Performance Level C - reset acceptable, user intervention acceptable provided that unit suffers no permanent damage.


## Product:

Product Name: **SDC006 (Rosewood7X)**



**Conclusion:**

No modifications were made to pass. No specification deviations, additions to or exclusions from were performed. Due to similarities in the drives, the test conclusions are applicable to SDC006 (Rosewood7X).

Standard	Result	Approved to Bear CE & RCM Marks
EN 55032:2012 / AC: 2013	Pass	
EN 61000-3-2 : 2014 – Class A	Pass	
EN 61000-3-3 2013	Pass	
EN 55024: 2010	Pass	
IEC 61000-4-2: 2008	Pass	
IEC 61000-4-3: 2010	Pass	
IEC 61000-4-4: 2004	Pass	
IEC 61000-4-5: 2005	Pass	
IEC 61000-4-6: 2008	Pass	
IEC 61000-4-8: 2009	Pass	
IEC 61000-4-11: 2004	Pass	

**Test Data:**

**EMC Immunity Test Results**

Specification	Test Method	Test Conditions	Compliance
Electrostatic Discharge	IEC 61000-4-2	4 kV Contact / HCP, VCP / 8 kV Air	Compliant
RF Radiated Immunity	IEC-61000-4-3 EN 50204	80 - 1000 MHz, 3 V/m, 80% 1 kHz AM	Compliant
EFT/Burst	IEC 61000-4-4	0.5 kV I/O, 1 kV AC mains	Compliant
Surge Immunity	IEC 61000-4-5	2 kV comm. mode, 1 kV diff. mode, AC mains	Compliant
Conducted RF Immunity	IEC 61000-4-6	150 kHz to 80 MHz, 3 Vrms, 80% 1 kHz AM, power and I/O	Compliant
Power Frequency Magnetic Field Immunity	IEC 61000-4-8	1 Amp / meter, 3 axes, 50 Hz and 60Hz	Compliant
Voltage Dips and Interrupts	IEC 61000-4-11	0% open and short for 5 seconds, 40% for 0.1 second, 70% for 0.01 second	Compliant



## EU DECLARATION OF CONFORMITY

**TYPE OF EQUIPMENT:** Hard Disc Drive  
**REGULATORY MODEL:** SDC006  
**Internal Product Name:** Rosewood7X  
**TRADE/BRAND NAME:** Seagate

### I. Product Safety and EMC Compliance

- A. The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012/AC: 2013	Electromagnetic compatibility of multimedia equipment — Emission requirements.
EN 55024:2010	Information technology equipment – Immunity characteristics – Limits and methods of measurement.
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase).
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq$ 16 A per phase.

- B. The product meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard:

EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/A2:2013	Information Technology Equipment - Safety- (Second Edition) Part 1: General Requirements
EN 62368-1:2014/AC:2015	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, Modified)

### II. Product Environmental Compliance (EU/China)

- A. The product(s) meets the requirements of the Directive 2011/65/EU RoHS "Recast" (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740 and by application of the following standards:

EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.
EN 62321-6:2015	Determination of certain substances in electrotechnical products. Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS).
China RoHS	Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)

China RoHS 2	Management Methods for the Restriction of the Use of Hazardous Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1, 2016 (China RoHS 2)
JS709B	Joint JEDEC/ECA Standard, Definition of "Low-Halogen" for Electronic Products

B. Seagate products rely on the following RoHS 2 exemptions for compliance:

6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6(c)	Copper alloy up to 4% lead by weight
7(a)	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead)
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

### III. Due Diligence

- A. For parts and materials in Seagate products procured from external suppliers, we rely on the representations of our suppliers regarding the presence of RoHS 2 substances in these parts and materials. Our supplier contracts require compliance with our chemical substance restrictions, and our suppliers document their compliance with our requirements by providing material content declarations for all parts and materials for Seagate products. Current supplier declarations include disclosure of any substances regulated by RoHS 2 in such parts or materials.
- B. Seagate also has internal systems in place to ensure ongoing compliance and all laws and regulations. These systems include standard operating procedures that ensure that product safety, EMC and environmental compliance requirements are followed and an internal auditing process to ensure compliance with all standard operating procedures.

**Year to Begin Affixing Mark:** 2017

**Manufacturer's Name:** Seagate Technology, LLC  
**Manufacturer's Address:** 10200 South De Anza Blvd.  
Cupertino, California 95014-3029 U.S.A.

**European Contact:** Seagate Technology International  
Koolhovenlaan 1  
1119 NB Schiphol-Rijk  
The Netherlands

Date of Issue: Jan 7, 2020

Signature:



\_\_\_\_\_  
Azeez Talha, Engineering Director



## Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and its placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd  
Responsible Supplier Number: E806

**Seagate Technology Australia Pty. Limited**  
Level 7, 91 Phillip St  
PARRAMATTA NSW 2150  
AUSTRALIA

Declare under our sole responsibility that the following product(s):

**Hard Disk Data Storage Drive**

---

**Model: SDC006 (Rosewood7X)**

---

to which this declaration relates is in conformity with the following standard(s):

Title	Test Regulation
<b>Australian/New Zealand Standard</b>	<b>AS/NZS CISPR 32: 2015</b>

---

(Name of the Authorized Person) **Sam Zavaglia**

---

(Title of the Authorized Person) **Senior Field Applications Engineer**

---

(Date of Issue) **27<sup>th</sup> April 2017**

---

(Signature)

符合性聲明書  
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33027	18010405

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具  
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：台灣希捷科技股份有限公司(Seagate Technology Taiwan, Ltd.)

Obligatory Applicant

地址：臺北市松山區復興北路 363 號 14 樓

Address

電話：+886-2-25142201

Telephone

商品中(英)文名稱：硬式磁碟機

Commodity Name

商品型式(或型號)：SDC006; ST1000LM049; ST500LM034; ST1000LM050;

ST500LM035; ST500LM036

Commodity Type (Model)

符合之檢驗標準及版次：CNS 13438 (2006.6), Section 5 "Marking of presence" of CNS 15663 2013.7)  
Standard(s) and version

試驗報告編號：7191177513-EEC17/01, ATS/GENV/279/17/yao

Test Report Number

試驗室名稱及代號：TUV SUD PSB Pte Ltd., ALS TECHNICHEM (S) PTE LTD

Testing laboratory name and designation number

SL2-IN-E-6001R

符合性聲明檢驗標識及識別號碼：

The form of the DoC marking appears like this



或  
or



D33027

RoHS

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所  
聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity  
Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：台灣希捷科技股份有限公司/Géraldine Hottier-Fayon (簽章)

The Board Chairman of Seagate Technology Taiwan

Obligatory Applicant

(Signature)

中華民國 107 年 1 月 4 日

DATE

(year)

(month)

(day)

## 방송통신기자재등의 적합등록 필증

### Registration of Broadcasting and Communication Equipments

상호 또는 성명 <small>Trade Name or Registrant</small>	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) <small>Equipment Name</small>	2.5" HDD
기본모델명 <small>Basic Model Number</small>	SDC006
파생모델명 <small>Series Model Number</small>	ST1000LM049, ST500LM036, ST500LM035, ST1000LM050, ST500LM034
등록번호 <small>Registration No.</small>	MSIP-REM-STX-SDC006
제조사/제조(조립)국가 <small>Manufacturer/Country of Origin</small>	SEAGATE TECHNOLOGY LLC / 중국, 태국
등록연월일 <small>Date of Registration</small>	2017-04-18
기타 <small>Others</small>	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.  
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2017년(Year) 12월(Month) 29일(Day)

국립전파연구원장



*Director General of National Radio Research Agency*

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.  
위반시 과태료 처분 및 등록이 취소될 수 있습니다.



## Declaration of Conformity

**Standards to which conformity is declared:**

**FCC Part 15B**

47 CFR FCC Part 15B (Class B)

**ICES-003 Issue 6, Class B**

Information Technology Equipment (ITE) - Limits  
and methods of measurement

**Manufacturer Name:** Seagate Technology, Incorporated

**Manufacturer Address:  
(And Importer)** 10200 South DeAnza Boulevard  
Cupertino California 95014

**Type of Equipment :** Hard Disc Data Storage Drive

**Product Name :** SDC006 (Rosewood7X)

Seagate Technology, Incorporated hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

**Location:** Seagate Singapore Design Centre, Singapore



(Signature)

**Certificate Date:** 27 April 2017

Hui Wei Qiang  
(Full Printed Name)

Engineer  
(position)

**Seagate Singapore Design Centre, Singapore**

# **M11P (SKR003) Regulatory Assurance Certification**



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**Issue Date: 29 Jan 2019  
Revision 3.2**



## Safety Certification

### Test Objective:

Verifies that product meets the required Safety requirements as stipulated by UL, and TUV Safety Agencies; and also European Directives:

- UL 60950-1, 2<sup>nd</sup> Edition, 2014-10-14
- TUV EN60950-1, IEC 60950-1

### Test Description:

The product was submitted to and tested by the safety agencies.

The product is certified for cUL mark through UL Korea under Underwriter Laboratories (UL) file E190397. Attached is the Certificate of Compliance to apply the cUL mark.

The product is certified for TUV SUD mark through TUV SUD Korea Corporation. Attached is the TUV SUD Certificate.

### Pass/Fail Criteria:



Product meets the stipulated Safety requirements.

### Product:

Product Name: Hard Disk Drive

### Conclusion:

The unit passed the above safety tests and standards. Due to similarities in the hard disk drives, it was only necessary to test one model in order to pass for all models.

Agency / Standards	Conclusion	Approved to Bear Agency's Marks
UL60950-1	Compliance with applicable cUL	
TUV EN60950-1, IEC 60950-1	Compliance with IEC60950, Compliance with EN60950	

# CERTIFICATE OF COMPLIANCE

Certificate Number 20170428-E190397  
Report Reference E190397-A33-UL  
Issue Date 2017-APRIL-28

Issued to: SEAGATE SINGAPORE INTERNATIONAL  
HEADQUARTERS PTE LTD  
THE SHUGART  
26 AYER RAJAH CRESCENT  
SINGAPORE 139944 SINGAPORE

This is to certify that  
representative samples of


COMPONENT - INFORMATION TECHNOLOGY  
EQUIPMENT INCLUDING ELECTRICAL BUSINESS  
EQUIPMENT  
Hard Disk Drive: SKR003

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

Standard(s) for Safety: See addendum for standards.

Additional Information: See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog  
number, model number or other product designation as specified under "Marking" for the particular  
Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products  
that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:  
 may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is  
required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual  
recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please  
contact a local UL Customer Service Representative at <http://ul.com/about/locations>



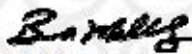
# CERTIFICATE OF COMPLIANCE

Certificate Number 20170428-E190397  
Report Reference E190397-A33-UL  
Issue Date 2017-APRIL-28

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Standards for Safety:

UL 60950-1, Information Technology Equipment - Safety - Part 1: General Requirements  
CAN/CSA C22.2 No. 60950-1-07, Information Technology Equipment - Safety - Part 1: General Requirements



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/localusa/>





Product Service

# CERTIFICATE

No. B 16 07 87435 043

**Holder of Certificate: Seagate Technology International**18, 59 beon-gil, Po Eun-daero Suji-gu  
Yongin-city, Gyeonggi-do 448-130  
REPUBLIC OF KOREA**Production Facility(ies):**

64076

**Certification Mark:****Product:****Hard disk drive****Model(s):****SKR003****Trademark : SEAGATE****Parameters:**Rated input: 5 V d.c., 0.85 A  
Protection Class: III**Tested according to:**EN 60950-1:2006/A2:2013  
IEC 60950-1(ed.2);am1;am2

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:**

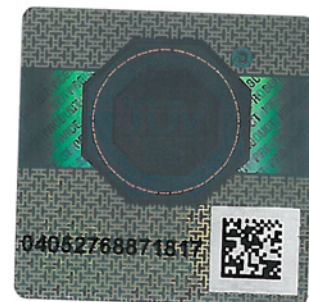
077-2254816-000

**Valid until:**

2021-07-18

**Date,** 2016-07-19  
( Havard Lee )

Page 1 of 1







Ref. Certif. No.

SG PSB-OF-00298

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST  
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)  
CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE)METHODE OC**CB TEST CERTIFICATE**  
**CERTIFICAT D'ESSAI OC**Product  
Produit

Hard disk drive

Name and address of the applicant  
Nom et adresse du demandeurSeagate Technology International  
18, 59 beon-gil, Poeun-daero Suji-gu  
Yongin-city, Gyeonggi-do 448-130, REPUBLIC OF KOREAName and address of the manufacturer  
Nom et adresse du fabricantSeagate Technology International  
18, 59 beon-gil, Poeun-daero Suji-gu, Yongin-city, Gyeonggi-do 448-130,  
REPUBLIC OF KOREAName and address of the factory  
Nom et adresse de l'usineSeagate Technology (Wuxi) International Co., Ltd.  
106 Xing Chuang Er Lu., Wuxi-Singapore Industrial Park., 214028 Wuxi,  
JiangSu, PEOPLE'S REPUBLIC OF CHINARatings and principal characteristics  
Valeurs nominales et caractéristiques principalesRated input : 5 V d.c., 0.85 A  
Protection class : IIITrade mark (if any)  
Marque de fabrique (si elle existe)

SEAGATE

Model/type Ref.  
Ref. de type

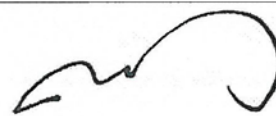
SKR003

Additional information (if necessary)  
Information complémentaire (si nécessaire)

See Test Report for National and Group Differences.

A sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à la

IEC 60950-1(ed.2);am1;am2

as shown in the Test Report Ref. No.  
which forms part of this certificate  
comme indiqué dans le Rapport d'essais numéro  
de référence qui constitue une partie de ce  
certificatTÜV SÜD PSB Pte Ltd  
077-2254816-000This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de CertificationDate, 2016-07-19  
CBS 16 07 87435 042  
(Havard Lee)

TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221

PSB Singapore

## ElectroMagnetic Compatibility

### Test Objective:

Verify that the product, which is an internal computer peripheral with no direct connection to external I/O or power, meets applicable EMC emission and immunity standards when installed in a representative host system. This is done by verifying that the product, in the system, complies with the appropriate limits for FCC, CE Mark, C-tick(RCM), and VCCI. For FCC, applicable limits are found in CFR 47, Part 15, Subpart B, Class B, and for CE, C-tick(RCM), and VCCI are found in EN 55032 Class B. Immunity requirements for CE Marking are defined in EN 55024

### Test Description:

Testing is performed with the drive installed in representative host system. The host system in this case, is a Notebook laptop or Desktop and the drive is exercised random write/read mode for all testing. The drive is monitored for correct operation throughout the testing.

Emission testing (performed at a 10m Chamber) and immunity testing are performed at an EMC facility, which has been certified by SAC-SINGLAS.

Emission testing consists of the following:

1. Conducted emissions, 150 kHz to 30 MHz, 110 Vac/60 Hz (FCC)
2. Conducted emissions, 150 kHz to 30 MHz, 230 Vac/50 Hz {CE, C-tick(RCM), VCCI}
3. Radiated emissions, 30 MHz to 1 GHz, 10-meter antenna distance
4. Radiated emissions, 1 GHz to 6 GHz, 3-meter antenna distance
5. AC power line harmonics, per EN61000-3-2 : 2014
6. AC power line flicker, per EN61000-3-3: 2013

Immunity testing includes the following:

1. Electrostatic discharge per IEC 61000-4-2 (Level B)
2. Radiated RF field immunity per IEC 61000-4-3 and EN 50204 (Level A)
3. Electrical Fast Transient/Burst per IEC 61000-4-4 (Level B)
4. Surge Immunity per IEC 61000-4-5 (Level B)
5. Conducted RF Immunity per IEC 61000-4-6 (Level A)
6. Power Frequency H-field Immunity per IEC 61000-4-8 (Level A)
7. Voltage Dips and Interrupts per IEC 61000-4-11 (Level B, C)

### Pass/Fail Criteria:

For immunity testing, the drive must meet different levels of performance (A, B or C) for the various RF environments to which it is exposed. These are defined as follows:

Performance Level A - no degradation in performance, no loss of data

Performance Level B - degraded performance acceptable provided that 1) no data is lost and 2) unit self-recovers without user intervention after the RF environment has been withdrawn



Performance Level C - reset acceptable, user intervention acceptable provided that unit suffers no permanent damage.

### Product:

Product Name: Hard Disk Drive

**Conclusion:**

No modifications were made to pass. No Specification deviations, additions to or exclusions from were performed. Due to similarities in the drives, the test conclusions are applicable to hard disk drive.

Standard	Result	Approved to Bear CE & RCM Marks
EN 55022:2010 / AC : 2011 – Class B EN 61000-3-2: 2014 EN 61000-3-3: 2013 EN 55024: 2010 IEC 61000-4-2: 2008 IEC 61000-4-3: 2010 IEC 61000-4-4: 1995 IEC 61000-4-5: 1995 IEC 61000-4-6: 1996 IEC 61000-4-8: 1993 IEC 61000-4-11: 1994	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass	 

**Test Data:**

**EMC Immunity Test Results**

Specification	Test Method	Test Conditions	Compliance
Electrostatic Discharge	IEC 61000-4-2	4 kV Contact / HCP, VCP / 8 kV Air	Compliant
RF Radiated Immunity	IEC-61000-4-3 EN 50204	80 - 1000 MHz, 3 V/m, 80% 1 kHz AM	Compliant
EFT/Burst	IEC 61000-4-4	0.5 kV I/O, 1 kV AC mains	Compliant
Surge Immunity	IEC 61000-4-5	2 kV comm. mode, 1 kV diff. mode, AC mains	Compliant
Conducted RF Immunity	IEC 61000-4-6	150 kHz to 80 MHz, 3 Vrms, 80% 1 kHz AM, power and I/O	Compliant
Power Frequency Magnetic Field Immunity	IEC 61000-4-8	1 Amp / meter, 3 axes, 50 Hz and 60Hz	Compliant
Voltage Dips and Interrupts	IEC 61000-4-11	0% open and short for 5 seconds, 40% for 0.1 second, 70% for 0.01 second	Compliant



## EU DECLARATION OF CONFORMITY

Model: SKR003 (M11P)

### I. Product Safety and EMC Compliance

- A. The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2015	Electromagnetic compatibility of multimedia equipment — Emission requirements.
EN 55024:2010	Information technology equipment – Immunity characteristics – Limits and methods of measurement.
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase).
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq$ 16 A per phase.

- B. The product meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard:

EN 60950-1:2006	Information technology equipment - Safety - General requirements. (Second Edition) Part 1: +A11:2009 +A1:2010 +A12:2011+ A2:2013.
-----------------	---

### II. Product Environmental Compliance, EU/China RoHS Declaration of Conformity

- A. Conformity with Harmonized Standards/Technical Specifications:

1. Directive 2011/65/EU RoHS “Recast” (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740 EN 50581:2012
2. Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
3. Management Methods for the Restriction of the Use of Hazardous Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1, 2016 (China RoHS 2)
4. Joint JEDEC/ECA Standard, Definition of “Low-Halogen” for Electronic Products, JS709B



B. Seagate products rely on the following RoHS 2 exemptions for compliance:

Exemption Description
6(a)-I. Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II. Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6c. Copper alloy up to 0.4% lead by weight
7a. Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead
7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology International.

Date of Issue: Sep 24, 2018

Signature:



\_\_\_\_\_   
Azeez Talha, Engineering Director

Signed for and on behalf of:

Seagate Technology International  
Koolhovenlaan 1  
1119 NB Schiphol-Rijk  
The Netherlands



## Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and it's placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd  
Responsible Supplier Number: E806

**Seagate Technology Australia Pty. Limited**  
**Level 7, 91 Phillip St**  
**PARRAMATTA NSW 2150**  
**AUSTRALIA**

Declare under our sole responsibility that the following product(s):

**Hard Disk Data Storage Drive**

---

**Model: SKR003**

---

to which this declaration relates is in conformity with the following standard(s):

Title	Test Regulation
<b>Australian/New Zealand Standard</b>	<b>AS/NZS CISPR 32: 2015</b>

---

(Name of the Authorized Person) **Sam Zavaglia**

---

(Title of the Authorized Person) **Senior Field Applications Engineer**

---

(Date of Issue) **21<sup>st</sup> July 2016**

---

(Signature)

---

符合性聲明書  
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33027	STX17110304

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具  
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：台灣希捷科技股份有限公司

Obligatory Applicant

地址：臺北市松山區復興北路 363 號 14 樓 B 室

Address

電話：02-2514-2273

Telephone

商品中 ( 英 ) 文名稱：硬式磁碟機

Commodity Name

商品型式 ( 或型號 )：SKR003:ST5000LM000;ST4000LM024;ST3000LM024

Commodity Type ( Model )

符合之檢驗標準及版次：CNS 13438/ Complete 2006 Class B

Standard(s) and version

試驗報告編號：T160623C29

Test Report Number

試驗室名稱及代號：香港商立德國際商品試驗有限公司

Testing laboratory name and designation number

SL2-IN-E-0049

符合性聲明檢驗標識及識別號碼：

The form of the DoC marking appears like this



D33027

RoHS

or



D33027

RoHS

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act.

I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：台灣希捷科技股份有限公司/Géraldine Hottier-Fayon ( 簽章 )

The Board Chairman of Seagate Technology Taiwan

Obligatory Applicant

( Signature )

中 華 民 國 106 年 11 月 3 日

DATE

( year )

( month )

( day )

# 방송통신기자재등의 적합등록 필증

## Registration of Broadcasting and Communication Equipments

상호 또는 성명 <i>Trade Name or Registrant</i>	SEAGATE TECHNOLOGY LLC
기자재 명칭 <i>Equipment Name</i>	HARD DISK DRIVE
기본모델명 <i>Basic Model Number</i>	SKR003
파생모델명 <i>Series Model Number</i>	ST3000LM024,ST5000LM000,ST4000LM024
등록번호 <i>Registration No.</i>	MSIP-REM-STX-SKR003
제조사/제조(조립)국가 <i>Manufacturer/Country of Origin</i>	SEAGATE TECHNOLOGY LLC / 중국
등록연월일 <i>Date of Registration</i>	2016-07-14
기타 <i>Others</i>	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.  
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

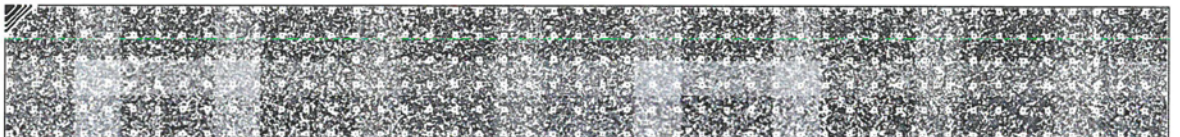
2016년(Year) 07월(Month) 14일(Date)

국립전파연구원장



Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.  
위반시 과태료 처분 및 등록이 취소될 수 있습니다.





## Declaration of Conformity

**Standards to which conformity is declared:**

**FCC Part 15B**

47 CFR FCC Part 15B: 2012 (Class B)

**ICES-003 Issue 5, Class B**

Information Technology Equipment (ITE) - Limits and methods of measurement

**Manufacturer Name:** Seagate Technology, Incorporated

**Manufacturer Address:  
(And Importer)** 10200 South DeAnza Boulevard  
Cupertino California 95014

**Type of Equipment :** Hard Disk Drive

**Product Model Number :** SKR003

Seagate Technology, Incorporated hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

**Location:** Gwanggyo, South Korea

A handwritten signature in black ink, appearing to read 'Y. Han'.

(Signature)

**Certificate Date:** 21 July, 2016

**Amendment Date:**

Young Hwan Han  
(Full Printed Name)  
Sr Engineering Manager  
(position)

# Reg Model: SDC003 (Rosewood7 2D) Certification Report



**DO NOT DUPLICATE  
CONTROLLED COPY**

**This document has been issued electronically.  
Only the original recipient of the document will  
be notified with revision information.**

**Issue Date: 29 Jan 2019  
Revision 4.2**



## Safety Certification

### Test Objective:

Verifies that product meets the required Safety requirements as stipulated by UL, and TUV Safety Agencies; and also European Directives:

- UL 60950-1
- TUV EN 60950-1, IEC 60950-1, EN 62368-1, IEC 62368-1

### Test Description:

The product was submitted to and tested by the safety agencies.

The product is certified for cUL mark through UL Singapore under Underwriter Laboratories (UL) file E190397. Attached is the Notice of Authorization to apply the cUL mark.

The product is certified for TUV SUD mark through TUV SUD PSB Corporation. Attached is the TUV SUD Certificate.

### Pass/Fail Criteria:



Product meets the stipulated Safety requirements.

### Product:

**Product Name: SDC003 (Rosewood7 2D)**

### Conclusion:

The unit passed the above safety tests and standards. Due to similarities in the Mobile HDD drives, it was only necessary to test one model in order to pass for all models.

Agency / Standards	Conclusion	Approved to Bear Agency's Marks
UL60950-1	Compliance with applicable cUL	
TUV EN 60950-1, IEC 60950-1 TUV EN 62368-1, IEC 62368-1	Compliance with IEC60950, EN60950, IEC62368, EN62368	

NOTICE OF COMPLETION  
AND  
AUTHORIZATION TO APPLY THE UL MARK



10/29/2015

Seagate Singapore International Headquarters Pte Ltd  
Mr. WEIQIANG HUI  
The Shugart  
26 Ayer Rajah Crescent  
Science Park Dr  
Singapore 139944, Singapore

Our Reference: File E190397, Vol. X1 Project Number 4787103859  
Your Reference: SK-723012  
Project Scope: Investigation for Internal Hard Disk Drive, Model SDC003 (E190397-A29).

Dear Mr. WEIQIANG HUI:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E190397, Vol. X1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site:  
<http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Steven Chua  
+65 6876 4605  
Engineer Project Associate  
Steven.Chua@ul.com

Reviewed by:

Bruce A. Mahrenholz  
847-664-3009  
CPO Director  
Bruce.A.Mahrenholz@ul.com

NWT8ABB-485878



NOTICE OF COMPLETION  
AND  
AUTHORIZATION TO APPLY THE UL MARK



2018-07-02

MR. WEIQIANG HUI  
Seagate Singapore International Headquarters Pte Ltd  
The Shugart  
26 Ayer Rajah Crescent  
Singapore, 139944, SG

Our Reference: File E190397, Vol X1

Order: 12238106  
Project 4788419369

Your Reference: SK-725679

Project Scope: Investigation for Internal Hard Disk Drive, Models: SDC001 & SDC003 employing alternate IC and PWB construction (E190397-A29).

Dear MR. WEIQIANG HUI:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E190397, Vol X1.

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Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Steven Chua  
Project Engineer  
Steven.Chua@ul.com

Reviewed by:

Bruce A. Mahrenholz  
CPO Director  
Bruce.A.Mahrenholz@ul.com

14b6a76b-a95f-431e-9c50-0528868288ea

## UL TEST REPORT AND PROCEDURE

<b>Standard:</b>	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
<b>Certification Type:</b>	Component Recognition
<b>CCN:</b>	NWQG2, NWQG8 (Information Technology Equipment Including Electrical Business Equipment)
<b>Product:</b>	Internal Hard Disk Drive
<b>Model:</b>	SDC001, SDC003
<b>Rating:</b>	5Vdc, 1.0A (Optional)
<b>Applicant Name and Address:</b>	SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD THE SHUGART 26 AYER RAJAH CRESCENT SINGAPORE 139944 SINGAPORE

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Steven Chua

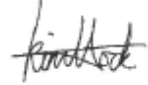

Reviewed by: Jim Kao

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME	SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE)METHODE OC
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## CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product	Hard disk drive (Hard Disk Drive)
Name and address of the applicant	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent Singapore 139944, SINGAPORE
Name and address of the manufacturer	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent, Singapore 139944, SINGAPORE
Name and address of the factory	Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA For further information please see attachment
Ratings and principal characteristics	+5V, 1.0A, Class III
Trade mark (if any)	Seagate
Model/type Ref.	SDC001, SDC003
Additional information (if necessary)	Certificate SG PSB-OF-00221A1 issued 2017-02-20 is replaced by this version due to technical changes EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013. See test report for National and Group Difference
A sample of the product was tested and found to be in conformity with	IEC 60950-1:2005 IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013
as shown in the Test Report Ref. No. which forms part of this certificate	TÜV SÜD PSB Pte Ltd 7191187979-EEC18/02-NCH1

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

Date,	2018-07-13	 ( Teo Kim Hock )	
	CBS 18 07 61811 152		PSB Singapore
TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221			



Ref. Certif. No.

SG PSB-OF-00221A1/M1

**Additional Information:**

Name and address of the factory

Seagate Technology (Thailand) Ltd.  
90 Moo 15, Tambol Sungnoen, Amphur Sungnoen,  
Nakhon Ratchasima 30170, THAILAND

Date, 2018-07-13  
CBS 18 07 61811 152

Signature : (Teo Kim Hock )



PSB Singapore

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221



Ref. Certif. No.

SG PSB-IV-00024

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

### CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product	Hard disk drive (Hard Disk Drive)
Name and address of the applicant	<b>Seagate Technology International</b> The Shugart, 26 Ayer Rajah Cresent Singapore 139944 SINGAPORE
Name and address of the manufacturer	Seagate Technology International The Shugart, 26 Ayer Rajah Cresent, Singapore 139944, SINGAPORE
Name and address of the factory	Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur, Sungnoen, Nakhon Ratchasima 30170, THAILAND  Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	+5V, 1.0A, Class III
Trade mark	Seagate
Model/type Ref.	SDC001; SDC003
Additional information (if necessary)	EN 62368-1:2014+A11:2017. See test report for National and Group Difference
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
as shown in the Test Report Ref. No. which forms part of this certificate	7191187979-EEC18/01-NCH1

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

CBS061811 0153 Rev. 00

Date, 2018-07-27

Page 1 of 1

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221

( KIM HOCK TEO )



PSB Singapore



Ref. Certif. No.

PSB SG-OF-00221A1

**Additional Information:**


Name and address of the factory  
Nom et adresse de l'usine

Seagate Technology (Thailand) Ltd.  
90 Moo 15, Tambol Sungnoen, Amphur Sungnoen,  
Nakhon Ratchasima 30170, THAILAND

Additional information (if necessary)  
Information complémentaire (si nécessaire)

EN 60950-1:2006+A11:2009+A1:2010+A12:2011  
+A2:2013. See test report for National and Group  
Differences

Date, 2018-02-20  
CBS 17 02 61811 139

Signature :   
( Serena Yeo )



PSB Singapore

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221



TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD  
**ZERTIFIKAT** ◆ **CERTIFICATE** ◆ 認證證書 ◆ **CERTIFICADO** ◆ **CERTIFICAT**



# CERTIFICATE

No. B 061811 0154 Rev. 00

**Holder of Certificate:** **Seagate Technology International**  
 The Shugart, 26 Ayer Rajah Crescent  
 Singapore 139944  
 SINGAPORE

**Production Facility(ies):** 061810, 064076

**Certification Mark:**



**Product:** **Hard disk drive**

**Model(s):** **SDC001; SDC003**

**Parameters:** Rated Current : 1.0 A  
 Rated Voltage : 5 VDC  
 Protection Class : III

**Brand Name:** Seagate

**Tested according to:** EN 60950-1:2006/A2:2013  
 IEC 60950-1:2005  
 IEC 60950-1:2005/AMD1:2009  
 IEC 60950-1:2005/AMD2:2013

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 7191187979/02-TR  
**Valid until:** 2020-12-19

**Date,** 2018-08-08   
 ( KIM HOCK TEO )





TÜV SÜD  
ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

# CERTIFICATE

No. B 061811 0155 Rev. 00

**Holder of Certificate:** **Seagate Technology International**  
The Shugart, 26 Ayer Rajah Crescent  
Singapore 139944  
SINGAPORE

**Production Facility(ies):** 061810, 064076

**Certification Mark:**



**Product:** **Hard disk drive**

**Model(s):** **SDC001; SDC003**

**Parameters:** Rated Current : 1.0A  
Rated Voltage : 5 VDC  
Protection Class : III

**Brand Name:** Seagate

**Tested according to:** EN 62368-1:2014/A11:2017  
IEC 62368-1:2014

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 7191187979/01-TR  
**Valid until:** 2023-08-05

**Date,** 2018-08-07

  
( KIM HOCK TEO )

## ElectroMagnetic Compatibility

### Test Objective:

Verify that the product, which is an internal computer peripheral with no direct connection to external I/O or power, meets applicable EMC emission and immunity standards when installed in a representative host system. This is done by verifying that the product, in the system, complies with the appropriate limits for FCC, CE Mark, RCM, and VCCI. For FCC, applicable limits are found in CFR 47, Part 15, Subpart B, Class B, and for CE, RCM, and VCCI are found in EN 55032. Immunity requirements for CE Marking are defined in EN 55024.

### Test Description:

Testing is performed with the drive installed in representative host system. The host system in this case, is a Notebook laptop and the drive is exercised random write/read mode for all testing. The drive is monitored for correct operation throughout the testing.

Emission testing (performed at a 10m Chamber) and immunity testing are performed at an EMC facility, which has been certified by SAC-SINGLAS.

Emission testing consists of the following:

1. Conducted emissions, 150 kHz to 30 MHz, 110 Vac/60 Hz (FCC)
2. Conducted emissions, 150 kHz to 30 MHz, 230 Vac/50 Hz (CE, RCM, VCCI)
3. Radiated emissions, 30 MHz to 1 GHz, 10-meter antenna distance
4. Radiated emissions, 1 GHz to 6 GHz, 3-meter antenna distance
5. AC power line harmonics, per EN61000-3-2 : 2006 + A1 : 2009 + A2 : 2009
6. AC power line flicker, per EN61000-3-3: 2013

Immunity testing includes the following:

1. Electrostatic discharge per IEC 61000-4-2 (Level B)
2. Radiated RF field immunity per IEC 61000-4-3 and EN 50204 (Level A)
3. Electrical Fast Transient/Burst per IEC 61000-4-4 (Level B)
4. Surge Immunity per IEC 61000-4-5 (Level B)
5. Conducted RF Immunity per IEC 61000-4-6 (Level A)
6. Power Frequency H-field Immunity per IEC 61000-4-8 (Level A)
7. Voltage Dips and Interruptions per IEC 61000-4-11 (Level B, C)

### Pass/Fail Criteria:

For immunity testing, the drive must meet different levels of performance (A, B or C) for the various RF environments to which it is exposed. These are defined as follows:

Performance Level A - no degradation in performance, no loss of data

Performance Level B - degraded performance acceptable provided that 1) no data is lost and 2) unit self-recovers without user intervention after the RF environment has been withdrawn


Performance Level C - reset acceptable, user intervention acceptable provided that unit suffers no permanent damage.

### Product:

Product Name: **SDC003 (Rosewood7 2D)**

**Conclusion:**

No modifications were made to pass. No Specification deviations, additions to or exclusions from were performed. Due to similarities in the drives, the test conclusions are applicable to SDC003 (Rosewood7 2D).

Standard	Result	Approved to Bear CE & RCM Marks
EN 55032:2012 / AC: 2013	Pass	
EN 61000-3-2 : 2006 +A1 : 2009 + A2 : 2009 – Class A	Pass	
EN 61000-3-3 2013	Pass	
EN 55024: 2010	Pass	
IEC 61000-4-2: 2008	Pass	
IEC 61000-4-3: 2010	Pass	
IEC 61000-4-4: 2004	Pass	
IEC 61000-4-5: 2005	Pass	
IEC 61000-4-6: 2008	Pass	
IEC 61000-4-8: 2009	Pass	
IEC 61000-4-11: 2004	Pass	

**Test Data:**

**EMC Immunity Test Results**

Specification	Test Method	Test Conditions	Compliance
Electrostatic Discharge	IEC 61000-4-2	4 kV Contact / HCP, VCP / 8 kV Air	Compliant
RF Radiated Immunity	IEC-61000-4-3 EN 50204	80 - 1000 MHz, 3 V/m, 80% 1 kHz AM	Compliant
EFT/Burst	IEC 61000-4-4	0.5 kV I/O, 1 kV AC mains	Compliant
Surge Immunity	IEC 61000-4-5	2 kV comm. mode, 1 kV diff. mode, AC mains	Compliant
Conducted RF Immunity	IEC 61000-4-6	150 kHz to 80 MHz, 3 Vrms, 80% 1 kHz AM, power and I/O	Compliant
Power Frequency Magnetic Field Immunity	IEC 61000-4-8	1 Amp / meter, 3 axes, 50 Hz and 60Hz	Compliant
Voltage Dips and Interrupts	IEC 61000-4-11	0% open and short for 5 seconds, 40% for 0.1 second, 70% for 0.01 second	Compliant



## EU DECLARATION OF CONFORMITY

Model: SDC003 (Rosewood7 2D)

### I. Product Safety and EMC Compliance

- A. The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012/AC: 2013	Electromagnetic compatibility of multimedia equipment — Emission requirements.
EN 55024:2010	Information technology equipment – Immunity characteristics – Limits and methods of measurement.
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase).
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase.

- B. The product (s) meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard(s):

EN 60950-1:2006	Information technology equipment - Safety - General requirements. (Second Edition) Part 1: +A11:2009 +A1:2010 +A12:2011+ A2:2013.
EN 62368-1:2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements (IEC 62368-1:2014, modified)

### II. Product Environmental Compliance, EU/China RoHS Declaration of Conformity

- A. Conformity with Harmonized Standards/Technical Specifications:

1. Directive 2011/65/EU RoHS “Recast” (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740 EN 50581:2012
2. Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
3. Management Methods for the Restriction of the Use of Hazardous Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1, 2016 (China RoHS 2)
4. Joint JEDEC/ECA Standard, Definition of “Low-Halogen” for Electronic Products, JS709B

B. Seagate products rely on the following RoHS 2 exemptions for compliance:

Exemption Description
6(a)-I. Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II. Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6c. Copper alloy up to 0.4% lead by weight
7a. Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead
7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology International.

Date of Issue: Sep 24, 2018

Signature:



\_\_\_\_\_  
Azeez Talha  
Engineering Director  
Reliability Technology Engineering

Signed for and on behalf of:

Seagate Technology International  
Koolhovenlaan 1  
1119 NB Schiphol-Rijk  
The Netherlands



## Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and its placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd  
Responsible Supplier Number: E806

**Seagate Technology Australia Pty. Limited**  
**Level 7, 91 Phillip St**  
**PARRAMATTA NSW 2150**  
**AUSTRALIA**

Declare under our sole responsibility that the following product(s):

**Hard Disk Data Storage Drive**

---

**Model: SDC003 (Rosewood7 2D)**

---

to which this declaration relates is in conformity with the following standard(s):

Title	Test Regulation
<b>Australian/New Zealand Standard</b>	<b>AS/NZS CISPR 32: 2015</b>

---

(Name of the Authorized Person) **Sam Zavaglia**

---

(Title of the Authorized Person) **Senior Field Applications Engineer**

---

(Date of Issue) **8<sup>th</sup> August 2018**

---

(Signature)

A handwritten signature in blue ink, appearing to be 'S. Zavaglia', is written over a horizontal line.



# 符合性聲明書

## Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33027	STX18081703

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具  
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：台灣希捷科技股份有限公司(Seagate Technology Taiwan, Ltd.)

Obligatory Applicant

地址：臺北市松山區復興北路 363 號 14 樓

Address

電話：02-2514-2273

Telephone

商品中(英)文名稱：硬式磁碟機

Commodity Name

商品型式(或型號)：SDC003

Commodity Type (Model)

ST2000LM007, ST2000LM015, ST1500LM012, ST2000LM008, ST2000LM009, ST2000LM010, ST2000VT000, ST2000LX008, ST2000LV000

符合之檢驗標準及版次：CNS 13438/ Complete 2006 Class B, Section 5 "Marking of presence" of CNS 15663 (2013.7)

Standard(s) and version

試驗報告編號：7191188632-EEC18/12, ATS/GENV/616/18/yao

Test Report Number

試驗室名稱及代號：TUV SUD PSB Pte Ltd., ALS TECHNICHEM (S) PTE LTD

Testing laboratory name and designation number

SL2-IN-E-6001R

符合性聲明檢驗標識及識別號碼：

The form of the DoC marking appears like this



D33027  
RoHS

或  
or



D33027  
RoHS

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：台灣希捷科技股份有限公司/Géraldine Hottier-Fayon (簽章)

The Board Chairman of Seagate Technology Taiwan

Obligatory Applicant

(Signature)

中 華 民 國      107      年      8      月      17      日

DATE

(year)

(month)

(day)



**방송통신기자재등의 적합등록 필증**  
**Registration of Broadcasting and Communication Equipments**

상호 또는 성명 <i>Trade Name or Registrant</i>	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) <i>Equipment Name</i>	2.5" HDD
기본모델명 <i>Basic Model Number</i>	SDC003
파생모델명 <i>Series Model Number</i>	Rosewood7 2D, ST2000LV000, ST1000LV000, ST2000LM008, ST2000LX008, ST1500LM012, ST2000VT000, ST2000LM015, ST2000LM010, ST2000LM007, ST2000LM009
등록번호 <i>Registration No.</i>	MSIP-REM-STX-SDC003
제조사/제조(조립)국가 <i>Manufacturer/Country of Origin</i>	SEAGATE TECHNOLOGY LLC / 중국, 태국
등록연월일 <i>Date of Registration</i>	2015-10-30
기타 <i>Others</i>	
<p>위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.  It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.</p> <p style="text-align: right;">2018년(Year) 07월(Month) 23일(Day)</p> <p style="text-align: center;">국립전파연구원장 </p> <p style="text-align: center;"><i>Director General of National Radio Research Agency</i></p> <p style="text-align: center;">※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.  위반시 과태료 처분 및 등록이 취소될 수 있습니다.</p>	

## Declaration of Conformity

**Standards to which conformity is declared:**

**FCC Part 15B**

47 CFR FCC Part 15B (Class B)

**ICES-003 Issue 6, Class B**

Information Technology Equipment (ITE) - Limits and methods of measurement

**Manufacturer Name:** Seagate Technology, Incorporated

**Manufacturer Address:  
(And Importer)** 10200 South DeAnza Boulevard  
Cupertino California 95014

**Type of Equipment :** Hard Disc Data Storage Drive

**Product Name :** SDC003 (Rosewood7 2D)

Seagate Technology, Incorporated hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

**Location:** Seagate Singapore Design Centre, Singapore



(Signature)

**Certificate Date:** 2 Aug 2018

Hui Wei Qiang  
(Full Printed Name)

Engineer  
(position)

# Reg Model: SDC001 (Rosewood7 1D) Certification Report



**DO NOT DUPLICATE  
CONTROLLED COPY**

**This document has been issued electronically.  
Only the original recipient of the document will  
be notified with revision information.**

**Issue Date: 29 Jan 2019  
Revision 4.2**

## Safety Certification

### Test Objective:

Verifies that product meets the required Safety requirements as stipulated by UL, and TUV Safety Agencies; and also European Directives:

- UL 60950-1
- TUV EN 60950-1, IEC 60950-1, EN 62368-1, IEC 62368-1

### Test Description:

The product was submitted to and tested by the safety agencies.

The product is certified for cUL mark through UL Singapore under Underwriter Laboratories (UL) file E190397. Attached is the Notice of Authorization to apply the cUL mark.

The product is certified for TUV SUD mark through TUV SUD PSB Corporation. Attached is the TUV SUD Certificate.

### Pass/Fail Criteria:



Product meets the stipulated Safety requirements.

### Product:

**Product Name: SDC001 (Rosewood7 1D)**

### Conclusion:

The unit passed the above safety tests and standards. Due to similarities in the Mobile HDD drives, it was only necessary to test one model in order to pass for all models.

Agency / Standards	Conclusion	Approved to Bear Agency's Marks
UL60950-1	Compliance with applicable cUL	
TUV EN 60950-1, IEC 60950-1 TUV EN 62368-1, IEC 62368-1	Compliance with IEC60950, EN60950, IEC62368, EN62368	

NOTICE OF COMPLETION  
AND  
AUTHORIZATION TO APPLY THE UL MARK



09/09/2015

Seagate Singapore International Headquarters Pte Ltd  
Mr. WEIQIANG HUI  
The Shugart  
26 Ayer Rajah Crescent  
Science Park Dr  
Singapore 139944, Singapore

Our Reference: File E190397, Vol. X1 Project Number 4787051446  
Your Reference: SK-722857  
Project Scope: Investigation for Internal Hard Disk Drive, Model SDC001.

Dear Mr. WEIQIANG HUI:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E190397, Vol. X1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site:  
<http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Shiau Hui Chiang  
+65 6854 7969  
Project Engineer  
ShiauHui.Chiang@ul.com

Reviewed by:

Bruce A. Mahrenholz  
847-664-3009  
CPO Director  
Bruce.A.Mahrenholz@ul.com

NWTD48A-71DD12

NOTICE OF COMPLETION  
AND  
AUTHORIZATION TO APPLY THE UL MARK



2018-07-02

MR. WEIQIANG HUI  
Seagate Singapore International Headquarters Pte Ltd  
The Shugart  
26 Ayer Rajah Crescent  
Singapore, 139944, SG

Our Reference: File E190397, Vol X1

Order: 12238106  
Project 4788419369

Your Reference: SK-725679

Project Scope: Investigation for Internal Hard Disk Drive, Models: SDC001 & SDC003 employing alternate IC and PWB construction (E190397-A29).

Dear MR. WEIQIANG HUI:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E190397, Vol X1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

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Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Steven Chua  
Project Engineer  
Steven.Chua@ul.com

Reviewed by:

Bruce A. Mahrenholz  
CPO Director  
Bruce.A.Mahrenholz@ul.com

14b6a76b-a95f-431e-9c50-0528868288ea

## UL TEST REPORT AND PROCEDURE

<b>Standard:</b>	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
<b>Certification Type:</b>	Component Recognition
<b>CCN:</b>	NWQG2, NWQG8 (Information Technology Equipment Including Electrical Business Equipment)
<b>Product:</b>	Internal Hard Disk Drive
<b>Model:</b>	SDC001, SDC003
<b>Rating:</b>	5Vdc, 1.0A (Optional)
<b>Applicant Name and Address:</b>	SEAGATE SINGAPORE INTERNATIONAL HEADQUARTERS PTE LTD THE SHUGART 26 AYER RAJAH CRESCENT SINGAPORE 139944 SINGAPORE

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Steven Chua

Reviewed by: Jim Kao



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME	SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC
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### CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product	Hard disk drive (Hard Disk Drive)
Name and address of the applicant	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent Singapore 139944, SINGAPORE
Name and address of the manufacturer	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent, Singapore 139944, SINGAPORE
Name and address of the factory	Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA For further information please see attachment
Ratings and principal characteristics	+5V, 1.0A, Class III
Trade mark (if any)	Seagate
Model/type Ref.	SDC001, SDC003
Additional information (if necessary)	Certificate SG PSB-OF-00221A1 issued 2017-02-20 is replaced by this version due to technical changes EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013. See test report for National and Group Difference
A sample of the product was tested and found to be in conformity with	IEC 60950-1:2005 IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013
as shown in the Test Report Ref. No. which forms part of this certificate	TÜV SÜD PSB Pte Ltd 7191187979-EEC18/02-NCH1

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

Date,	2018-07-13	 ( Teo Kim Hock )	 PSB Singapore
	CBS 18 07 61811 152		
TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221			



Ref. Certif. No.

SG PSB-OF-00221A1/M1

**Additional Information:**

Name and address of the factory

Seagate Technology (Thailand) Ltd.  
90 Moo 15, Tambol Sungnoen, Amphur Sungnoen,  
Nakhon Ratchasima 30170, THAILAND

Date, 2018-07-13  
CBS 18 07 61811 152

Signature : (Teo Kim Hock )



PSB Singapore

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221



Ref. Certif. No.

SG PSB-IV-00024

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

### CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product	Hard disk drive (Hard Disk Drive)
Name and address of the applicant	<b>Seagate Technology International</b> The Shugart, 26 Ayer Rajah Crescent Singapore 139944 SINGAPORE
Name and address of the manufacturer	Seagate Technology International The Shugart, 26 Ayer Rajah Crescent, Singapore 139944, SINGAPORE
Name and address of the factory	Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur, Sungnoen, Nakhon Ratchasima 30170, THAILAND  Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	+5V, 1.0A, Class III
Trade mark	Seagate
Model/type Ref.	SDC001; SDC003
Additional information (if necessary)	EN 62368-1:2014+A11:2017. See test report for National and Group Difference
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
as shown in the Test Report Ref. No. which forms part of this certificate	7191187979-EEC18/01-NCH1

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

CBS061811 0153 Rev. 00

Date, 2018-07-27

Page 1 of 1

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221

( KIM HOCK TEO )



PSB Singapore

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# CERTIFICATE

No. B 061811 0154 Rev. 00

**Holder of Certificate:** **Seagate Technology International**  
 The Shugart, 26 Ayer Rajah Crescent  
 Singapore 139944  
 SINGAPORE

**Production Facility(ies):** 061810, 064076

**Certification Mark:**



**Product:** **Hard disk drive**

**Model(s):** **SDC001; SDC003**

**Parameters:** Rated Current : 1.0 A  
 Rated Voltage : 5 VDC  
 Protection Class : III

**Brand Name:** Seagate

**Tested according to:** EN 60950-1:2006/A2:2013  
 IEC 60950-1:2005  
 IEC 60950-1:2005/AMD1:2009  
 IEC 60950-1:2005/AMD2:2013

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 7191187979/02-TR  
**Valid until:** 2020-12-19

**Date,** 2018-08-08   
 ( KIMI HOCK TEO )



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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFIKAT ◆ CERTIFICATE



Product Serv cc

# CERTIFICATE

No. B 061811 0155 Rev. 00

**Holder of Certificate:** **Seagate Technology International**  
The Shugart, 26 Ayer Rajah Crescent  
Singapore 139944  
SINGAPORE

**Production Facility(ies):** 061810, 064076

**Certification Mark:** 

**Product:** Hard disk drive

**Model(s):** SDC001; SDC003

**Parameters:** Rated Current : 1.0A  
Rated Voltage : 5 VDC  
Protection Class : III

**Brand Name:** Seagate

**Tested according to:** EN 62368-1:2014/A11:2017  
IEC 62368-1:2014

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 7191187979/01-TR  
**Valid until:** 2023-08-05

**Date,** 2018-08-07   
( KIM HOCK TEO )





# ElectroMagnetic Compatibility

## Test Objective:

Verify that the product, which is an internal computer peripheral with no direct connection to external I/O or power, meets applicable EMC emission and immunity standards when installed in a representative host system. This is done by verifying that the product, in the system, complies with the appropriate limits for FCC, CE Mark, RCM, and VCCI. For FCC, applicable limits are found in CFR 47, Part 15, Subpart B, Class B, and for CE, RCM, and VCCI are found in EN 55032. Immunity requirements for CE Marking are defined in EN 55024.

## Test Description:

Testing is performed with the drive installed in representative host system. The host system in this case, is a Notebook laptop and the drive is exercised random write/read mode for all testing. The drive is monitored for correct operation throughout the testing.

Emission testing (performed at a 10m Chamber) and immunity testing are performed at an EMC facility, which has been certified by SAC-SINGLAS.

Emission testing consists of the following:

1. Conducted emissions, 150 kHz to 30 MHz, 110 Vac/60 Hz (FCC)
2. Conducted emissions, 150 kHz to 30 MHz, 230 Vac/50 Hz (CE, RCM, VCCI)
3. Radiated emissions, 30 MHz to 1 GHz, 10-meter antenna distance
4. Radiated emissions, 1 GHz to 6 GHz, 3-meter antenna distance
5. AC power line harmonics, per EN61000-3-2 : 2006 + A1 : 2009 + A2 : 2009
6. AC power line flicker, per EN61000-3-3: 2013

Immunity testing includes the following:

1. Electrostatic discharge per IEC 61000-4-2 (Level B)
2. Radiated RF field immunity per IEC 61000-4-3 and EN 50204 (Level A)
3. Electrical Fast Transient/Burst per IEC 61000-4-4 (Level B)
4. Surge Immunity per IEC 61000-4-5 (Level B)
5. Conducted RF Immunity per IEC 61000-4-6 (Level A)
6. Power Frequency H-field Immunity per IEC 61000-4-8 (Level A)
7. Voltage Dips and Interrupts per IEC 61000-4-11 (Level B, C)

## Pass/Fail Criteria:

For immunity testing, the drive must meet different levels of performance (A, B or C) for the various RF environments to which it is exposed. These are defined as follows:

Performance Level A - no degradation in performance, no loss of data

Performance Level B - degraded performance acceptable provided that 1) no data is lost and 2) unit self-recovers without user intervention after the RF environment has been withdrawn

Performance Level C - reset acceptable, user intervention acceptable provided that unit suffers no permanent damage.


## Product:

Product Name: **SDC001 (Rosewood7 1D)**



**Conclusion:**

No modifications were made to pass. No Specification deviations, additions to or exclusions from were performed. Due to similarities in the drives, the test conclusions are applicable to SDC001 (Rosewood7 1D).

Standard	Result	Approved to Bear CE & RCM Marks
EN 55032: 2012 / AC: 2013 EN 61000-3-2 : 2006 +A1 : 2009 + A2 : 2009 – Class A EN 61000-3-3 2013 EN 55024: 2010 IEC 61000-4-2: 2008 IEC 61000-4-3: 2010 IEC 61000-4-4: 2004 IEC 61000-4-5: 2005 IEC 61000-4-6: 2008 IEC 61000-4-8: 2009 IEC 61000-4-11: 2004	Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass	

**Test Data:**

**EMC Immunity Test Results**

Specification	Test Method	Test Conditions	Compliance
Electrostatic Discharge	IEC 61000-4-2	4 kV Contact / HCP, VCP / 8 kV Air	Compliant
RF Radiated Immunity	IEC-61000-4-3 EN 50204	80 - 1000 MHz, 3 V/m, 80% 1 kHz AM	Compliant
EFT/Burst	IEC 61000-4-4	0.5 kV I/O, 1 kV AC mains	Compliant
Surge Immunity	IEC 61000-4-5	2 kV comm. mode, 1 kV diff. mode, AC mains	Compliant
Conducted RF Immunity	IEC 61000-4-6	150 kHz to 80 MHz, 3 Vrms, 80% 1 kHz AM, power and I/O	Compliant
Power Frequency Magnetic Field Immunity	IEC 61000-4-8	1 Amp / meter, 3 axes, 50 Hz and 60Hz	Compliant
Voltage Dips and Interrupts	IEC 61000-4-11	0% open and short for 5 seconds, 40% for 0.1 second, 70% for 0.01 second	Compliant



## EU DECLARATION OF CONFORMITY

Model: SDC001 (Rosewood7 1D)

### I. Product Safety and EMC Compliance

A. The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012/AC: 2013	Electromagnetic compatibility of multimedia equipment — Emission requirements.
EN 55024:2010	Information technology equipment – Immunity characteristics – Limits and methods of measurement.
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase).
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq$ 16 A per phase.

B. The product (s) meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard(s):

EN 60950-1:2006	Information technology equipment - Safety - General requirements. (Second Edition) Part 1: +A11:2009 +A1:2010 +A12:2011+ A2:2013.
EN 62368-1:2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements (IEC 62368-1:2014, modified)

### II. Product Environmental Compliance, EU/China RoHS Declaration of Conformity

A. Conformity with Harmonized Standards/Technical Specifications:

1. Directive 2011/65/EU RoHS “Recast” (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740 EN 50581:2012
2. Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
3. Management Methods for the Restriction of the Use of Hazardous Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1, 2016 (China RoHS 2)
4. Joint JEDEC/ECA Standard, Definition of “Low-Halogen” for Electronic Products, JS709B

B. Seagate products rely on the following RoHS 2 exemptions for compliance:

Exemption Description
6(a)-I. Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II. Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6c. Copper alloy up to 0.4% lead by weight
7a. Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead
7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology International.

Date of Issue: Sep 24, 2018

Signature:



\_\_\_\_\_  
Azeez Talha  
Engineering Director  
Reliability Technology Engineering

Signed for and on behalf of:

Seagate Technology International  
Koolhovenlaan 1  
1119 NB Schiphol-Rijk  
The Netherlands



## Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and its placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd  
Responsible Supplier Number: E806

**Seagate Technology Australia Pty. Limited**  
Level 7, 91 Phillip St  
PARRAMATTA NSW 2150  
AUSTRALIA

Declare under our sole responsibility that the following product(s):

**Hard Disk Data Storage Drive**

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**Model: SDC001 (Rosewood7 1D)**

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to which this declaration relates is in conformity with the following standard(s):

Title	Test Regulation
<b>Australian/New Zealand Standard</b>	<b>AS/NZS CISPR 32: 2015</b>

---

(Name of the Authorized Person) **Sam Zavaglia**

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(Title of the Authorized Person) **Senior Field Applications Engineer**

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(Date of Issue) **8<sup>th</sup> August 2018**

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(Signature)

A handwritten signature in blue ink, appearing to be 'Sam Zavaglia', is written over a horizontal line.

符合性聲明書  
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33027	STX18081702

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具  
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：台灣希捷科技股份有限公司(Seagate Technology Taiwan, Ltd.)

Obligatory Applicant

地址：臺北市松山區復興北路 363 號 14 樓

Address

電話：02-2514-2273

Telephone

商品中(英)文名稱：硬式磁碟機

Commodity Name

商品型式(或型號)：SDC001

Commodity Type (Model)

ST1000LM035, ST1000LM048, ST500LM030, ST1000LM037, ST1000LM038, ST1000LX022, ST1000VT001, ST500VT003, ST1000LV000, ST750LM035, ST500LM032, ST500LM033

符合之檢驗標準及版次：CNS 13438/ Complete 2006 Class B, Section 5 "Marking of presence" of CNS 15663 (2013.7)  
Standard(s) and version

試驗報告編號：7191188632-EEC18/06, ATS/GENV/615/18/yao

Test Report Number

試驗室名稱及代號：TUV SUD PSB Pte Ltd., ALS TECHNICHEM (S) PTE LTD

Testing laboratory name and designation number

SL2-IN-E-6001R

符合性聲明檢驗標識及識別號碼：

The form of the DoC marking appears like this



D33027  
RoHS

或  
or



D33027  
RoHS

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：台灣希捷科技股份有限公司/Géraldine Hottier-Fayon (簽章)

The Board Chairman of Seagate Technology Taiwan

Obligatory Applicant

(Signature)

中華民國

107

年 8

月

17

日

DATE

(year)

(month)

(day)



**방송통신기자재등의 적합등록 필증**  
**Registration of Broadcasting and Communication Equipments**

상호 또는 성명 <i>Trade Name or Registrant</i>	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) <i>Equipment Name</i>	2.5" HDD
기본모델명 <i>Basic Model Number</i>	SDC001
파생모델명 <i>Series Model Number</i>	Rosewood7 1D, ST1000LV000, ST500LM032, ST750LM035, ST500LM033, ST1000LM037, ST500VT003, ST1000LM048, ST1000LX022, ST1000LM035, ST1000LM038, ST500LM030, ST1000VT001
등록번호 <i>Registration No.</i>	MSIP-REM-STX-SDC001
제조사/제조(조립)국가 <i>Manufacturer/Country of Origin</i>	SEAGATE TECHNOLOGY LLC / 중국, 태국
등록연월일 <i>Date of Registration</i>	2015-09-09
기타 <i>Others</i>	
<p>위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.  It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.</p> <p style="text-align: right;">2018년(Year) 07월(Month) 23일(Day)</p> <p style="text-align: center;">국립전파연구원장 </p> <p style="text-align: center;"><i>Director General of National Radio Research Agency</i></p> <p style="text-align: center;">※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.  위반시 파태료 처분 및 등록이 취소될 수 있습니다.</p>	



## Declaration of Conformity

**Standards to which conformity is declared:**

**FCC Part 15B**

47 CFR FCC Part 15B (Class B)

**ICES-003 Issue 6, Class B**

Information Technology Equipment (ITE) - Limits  
and methods of measurement

**Manufacturer Name:** Seagate Technology, Incorporated

**Manufacturer Address:  
(And Importer)** 10200 South DeAnza Boulevard  
Cupertino California 95014

**Type of Equipment :** Hard Disc Data Storage Drive

**Product Name :** SDC001 (Rosewood7 1D)

Seagate Technology, Incorporated hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

**Location:** Seagate Singapore Design Centre, Singapore



(Signature)

**Certificate Date:** 2 Aug 2018

Hui Wei Qiang  
(Full Printed Name)

Engineer  
(position)