LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

N/A = Not Applicable

1. Name of cell / battery
LITHIUM BATTERY CR123A

2. Manufacturer of cell / battery	
Name	NINGBO GP ENERGY CO.,LTD.
Address	58 Zhongche Road, Wuxiang Town, Yinzhou District, Ningbo City, Zhejiang Provin
Phone	0574-87913954
Email	xuj@nbgpe.com
Website	www.nbgpe.com

3. Test laboratory of cell / battery	
Name	Shanghai Research Institute of Chemical Industry Testing Centre
Address	No.345 East Yunling Road, Shanghai
Phone	02152569800
Email	fbshcn@gmail.com
Website	www.ghs.cn

4. ID-number and date			
Unique test report identification number	1120030659	Date of test report	2020.04.28

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "•"			
○	Lithium ion cell	Lithium metal cell	○
○	Lithium ion battery	Lithium metal battery	●
○	Lithium hybrid battery		

6. Parameters	Cell	Battery
Mass in gram (g):		
Lithium ion: Indicate watt-hour rating (Wh):		
Lithium metal: Indicate lithium metal content in gram (g):		0.56
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		g Wh

LITHIUM BATTERY SERVICE

LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

Name of cell/battery (taken from field 1)
LITHIUM BATTERY CR123A

7. **Physical description of cell / battery**
Lithium content:0. 56g.Primary LithiumCell

8. **Model numbers**
CR123A

TESTS AND RESULTS

9. **List of tests conducted and results** - Mark N/A, pass or fail with an "●"	N/A	pass	fail
T1 - Altitude simulation	○	●	○
T2 - Thermal Test	○	●	○
T3 - Vibration	○	●	○
T4 - Shock	○	●	○
T5 - External Short Circuit	○	●	○
T6 - Impact / Crush	○	●	○
T7 - Overcharge	○	●	○
T8 - Forced Discharge	○	●	○
	○	○	○
	○	○	○

10. **Reference to assembled battery testing requirements**		
	N/A	

11. **Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto**
AUNITED NATIONS"Recommendations on the TRANSPORT OF DANGEROUS GOODS"Manual of Test and Criteria 38.3 ST/SG/AG.10/11/Rev.6/Amend.1

LITHIUM BATTERY SERVICE

LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

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Name of cell/battery (taken from field 1)
LITHIUM BATTERY CR123A

ADDITIONAL SUPPLIER INQUIRY

12. Quality management system for manufacturing cells / batteries Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?			● YES	○ NO
13. Are the following parameters exceeded? Lithium ion cell: more than 20 Wh Lithium ion battery: more than 100 Wh Lithium metal cell: more than 1 g Lithium Lithium metal battery: more than 2 g Lithium Lithium hybrid Battery: more than 1,5 g Lithium and/or more than 10 Wh			○ YES	● NO

Check point 14 – 16 need to be answered when 13 has been ticked "YES":				
14. Does each cell / battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?			○ YES	○ NO
15. Is each cell / battery equipped with an effective means of preventing external short circuits?			○ YES	○ NO
16. Is each battery containing cells or series of cells connected in parallel equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.)?	○ N/A		○ YES	○ NO

17. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells/batteries and lithium polymer cells/batteries			
State of Charge (SoC) max. 30 %	● YES	○ NO	

CELLS/BATTERIES INSTALLED IN EQUIPMENT

18. Check point 18 needs to be answered when the cells / batteries are installed in articles:				
18.a) Only button cells enclosed?			● YES	○ NO
18.b) Number of enclosed cells (other than button cells)/batteries per equipment				
1PCS	Enclosed cells per equipment	Enclosed batteries per equipment		
When the equipment is intentionally active/switched on during transport e.g. data loggers:				
18.c) Confirmation that no dangerous amount of heat is emitted from the equipment	○ N/A		● YES	○ NO
18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	○ N/A		● YES	○ NO

19. Place, Date	**20. Title, Surname, First name**	**21. Company stamp and signature**
		jason.wang@china-siter.com 数字签名者：jason.wang@china-siter.com 日期：2022.02.17 17:55:58 +08'00'