

PART 80 COMPLIANCE REPORT

REVISIONS			
Revision Level	Approval	Date	Description
-			
A			Released Per ECO

ACR ELECTRONICS INC
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A 18560 Sheet 1

SIZE CODE IDENT NO Of 4

NAT Inc.
Tellusart MKII
FCC Part 80.1101
Compliance Report

Compliance Report

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Attached Reports:

- 1.) FCC Electronic application # EA 98229, for ACRSA Tellusart MKII approval info.
- 2.) Label Drawings and Pictures
- 3.) NAT Inc SART Instruction manual

Application for type acceptance requirements, Part 2.983

a.) Name of applicant,	NAT, Vendor
b.) Identification of equipment,	Tellusart MKII
c.) Production is planned starting Q3 of 2000.	
d.) Technical Description	Search and rescue 9 GHz radar transponder
1.) Emission	300MXON
2.) Frequency range	9200-9500MHz
3.) Operating power	400 Watts min
4.) Max operating power	≤ 4dB variation
5.) DC Voltage	min 11.0 Vdc
6.) Semiconductor description	See Figure 6
7.) Circuit Diagrams	See page 4
8.) Instruction Manual	See attached Doc 3
9.) Tune up procedure	See attached Doc 1
10.) Freq. stab. Des	See attached Doc 1
11.) Sup. Spur Rad Des	See attached Doc 1
12.) No Digital Mod. Ckts	NA, FM analog mod. 300MXON
e.) RF power measurements.	See attached Doc 1
f.) Photographs of all labels.	See attached Doc 2
g.) 8 x 10 photographs	See attached Doc 2
h.) No Encoders	Not applicable.
i.) No external power amplifiers.	Not applicable.
j.) No AM Broadcast equipment.	Not applicable.

Test Report for compliance to FCC part 80.1101.**Performance standard recommendations from FCC Rules part 80.1101****Section 6, 9GHz radar transponders (SART).**

- 1.) IMO resolution A.604 (15) recommended.
- 2.) CCIR 628-1 recommended

IMO A.697 (17) revokes A.604 (15).
ITU-R M.628-3 replaces CCIR 628-1.

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IEC 1097-1 Global Maritime distress and safety systems part 1: Radar transponder-Marine search and rescue (SART), operational and performance requirements, methods of testing and required test results.

Standards Note:

The Technical characteristics of ITU-R M.628-3 ANNEX 1 form the technical requirements of IEC 1097-1.

IEC 1097-1 states the method of measurement and required test results for compliance, hence the inclusion of passing type approval report 800011 and 102208B showing compliance to IEC 1097-1. ITU-R M.628-3 makes no recommendations on the measurement standards used for measuring the performance of a SART device.

COMPLIANCE/APPROVAL STATEMENT:

In combination with the approval application of ACRSA TELLUSART MKII under PART 80.1101, Electronic filing number #EA98229 for FCC ID # O48ACRSA MKII.

The NAT Inc. Tellusart MKII radar transponder meets the requirements under PART 80.1101 based on the rational that the only difference between the two units are labeling and is submitted for type approval as such under part 80.1101.

See FCC application #EA98229 for manufacturer ACRSA Tellusart MKII, FCC ID# O48ACRSA-MKII.

Compliance Report by:

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ACR ELECTRONICS INC.

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NO

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TEST PROCEDURE

**Part 80 compliance
SART**

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