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RF Exposure Evaluation Report

APPLI CANT	NAVICO RBU ITALIA S.R.L.
	VIA ROMITA 26
	50025 MONTAGNANA V.P.
	MONTESPERTOLI (FI) ITALY
FCCID	2AJJ3SRTLAN12U6X
IC	21849-SRTLAN12U6X
MODEL NUMBER	12 KW SRT X-BAND LAN TRANSCEIVER
PRODUCT DESCRI PTI ON	12 kw X-BAND RADAR SYSTEM
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Christian Pawlak

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

Applicant: NAVICO RBU ITALIA S.R.L.

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GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669



Christian Pawlak

Engineering Project Manager

Date: 11/30/2016

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RF Exposure Requirements

General information

Device type: 12 kw X-BAND RADAR SYSTEM

<u>Antenna</u>

Configuration	Antenna p/n	Type	Max. Gain (dBi)
6' X Band	Any	X band	29 dB
antenna			

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

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Insert value			d boxes to	determine Mini			
Max Power	6.17		equals	Max Power	6170	mW	
Duty Cycle	100	%	equals	Duty Factor	1	numeric	
Antenna Gain	29	dBi	equals	Gain numeric	794.3282	numeric	
Coax Loss		dB		Gain - Coax Los	794.3282	numeric	
Power Density	1	mW/cm ²					
Enter power Density fr	om the cha	rt to the ri	ght	Rule Par	t 1.1310, Ta	able 1 (B)	
Frequency	9500	MHz		Frequency ran	Power de	Enter this value	
				MHz	mW/cm ²	mW/cm ²	
				0.3-1.34	100	100	
				1.34-30	180/f ²	0.0	
				30-300	0.2	0.2	
				300-1,500	f/1500	6.3	
				1,500-100,000	1	1	
				£ £			
				f = frequency ir) IVIHZ		
				T = frequency in) IVIHZ		
Minimum Se _l	paratio	n Dista	ance	625		6.25	m
						6.25	m
		on Dista 245.6812				6.25	m
						6.25	m
						6.25	m
						6.25	m
						6.25	m
						6.25	m
						6.25	m
						6.25	m
						6.25	m
Minimum Seperation in						6.25	m
						6.25	m

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