TIMCO ENGINEERING, Inc.
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RF Exposure Evaluation Report

APPLICANT	Enterprise Electronics Corporation
	128 South Industrial Blvd. Enterprise Alabama 36330 USA
FCC ID	BUV-SK1000H
MODEL NUMBER	SK1000H
PRODUCT DESCRIPTION	RADAR
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Tim Royer

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.

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

Authorized Signatory Name:

Tim Royer

Engineering Project Manager

Date: 6/2/2017

RF Exposure Requirements

General information

Device type: RADAR

MPE Calculation:

The minimum separation distance is calculated as follows:

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

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

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Minimum Separation Distance for Mobile or Fixed Devices
Controlled Exposure

Insert values in yellow highlighted boxes to determine Minimum Separation Distance

Max Power	1000000	W	*equals*	Max Power	1000000000	mW
Duty Cycle	0.1	%	*equals*	Duty Factor	0.001	numeric
Antenna Gain	44	dBi	*equals*	Gain numeric	25118.86432	numeric
Coax Loss	0	dB		Gain - Coax Loss	25118.86432	numeric
Power Density	5	mW/cm^2				

Enter power Density from the chart to the right

Frequency 3550 MHz

Rule Part 1.1310, Table 1 (A)

Freq range	Power density	Enter this value
MHz	mW/cm^2	mW/cm^2
0.3 - 3	100	**100**
3 - 30	$900/f^2$	**0.0**
30-300	1	**1**
300-1,500	f/300	**11.8**
1,500-100,000	5	**5**

f = frequency in MHz

Minimum Separation Distance	**19994 cm**	**199.94 m**

Minimum Seperation in Inches 7865.828 Inches

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Report: 568AUT17 RF EXP MPE RPT.DOCX