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RF Exposure Evaluation Report

APPLICANT	ROHILL ENGINEERING B.V.	
	Edisonstraat 12	
	7903 AN Hoogeveen	
	The Netherlands	
FCC ID	2AGJ3R-8070-800MHZ	
MODEL NUMBER	R-8070-800	
PRODUCT DESCRIPTION	TETRA TRANSCEIVER	
STANDARD APPLIED	CFR 47 Part 2.1091	
PREPARED BY	Cory Leverett	

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.



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:

Cory Leverett

Engineering Project Manager

Date: 3/11/2016



RF Exposure Requirements

General information

Device type: TETRA TRANSCEIVER

Devices that operate under Part 90 of this chapter are subject to RF exposure evaluation prior to equipment authorization or use.

<u>Antenna</u>

The manufacturer does not specify an antenna, but a typical antenna has a gain of 0 dBi.

Configuration	Antenna p/n	Туре	Max. Gain (dBi)
Fixed mounted	Any	omni	11

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 1.1310, Table 1.



Minimum Separation Distance for Mobile or Fixed Devices **General Population/Uncontrolled Exposure** Insert values in yellow highlighted boxes to determine Minimum Separation Distance 43.4 W 43400 mW Max Power equals Max Power 100 % **Duty Cycle** equals **Duty Factor** numeric 1 Antenna Gain 11 dBi equals Gain numeric 12.58925 numeric 6.91831 numeric Coax Loss 2.6 dB Gain - Coax Los 0.6 mW/cm² ← **Power Density** Enter power Density from the chart to the right Rule Part 1.1310, Table 1 (B) 869 MHz Frequency rang Power der Enter this value Frequency mW/cm² mW/cm² MHz 0.3-1.34 100 100 180/f² 1.34-30 0.0 30-300 0.2 0.2 300-1,500 f/1500 0.6 1,500-100,000 1 1 f = frequency in MHz

Minimum Separation Distance	200 cm	2.00 m

Minimum Seperation in Inches 78.50524 Inches