

**Application for the Updated
MagnaStar® Air Radio Telecommunication Unit**

List of Exhibits

1.0 Introduction

As a result of the elimination of obsolete parts, the MagnaStar® Air Radio Telecommunication Unit (ARTU) has been updated and submitted for Class II permissive change. The basic construction and functional block diagrams have remained essentially the same. The modes of operation and unit performance are unchanged.

This section addresses 47 CFR §2.1033 application for for Class II permissive change. References are made to the attached exhibits in support of this application. Pages labeled “Raytheon Proprietary” contain company sensitive information and are requested to be withheld from public file. Appropriate filing fee and request for confidentiality per §0.459 have been submitted with this application.

Any technical questions regarding this application can be referred to

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2.0 List of Exhibits and Reference to Applicable Rules

2.1 Exhibit A

This exhibit includes the full name and address of the applicant, the full name and address of the manufacturer. This information is supplied in accordance with §2.1033 (c) (1).

2.2 Exhibit B

This exhibit includes the FCC equipment identification. This information is supplied in accordance with §2.1033 (c) (2).

2.3 Exhibit C

This exhibit is a copy of the MagnaStar® ARTU installation manual. This manual includes complete operational information. This information is supplied in accordance with §2.1033 (c) (3).

2.4 Exhibit D

This exhibit contains information about the type of transmitter modulation used by the ARTU and the frequency range. This information is supplied in accordance with §2.1033 (c) (4) & (5).

2.5 Exhibit E (Raytheon Proprietary)

This exhibit contains a description of all transmit circuits that control ARTU spurious suppression, modulation limiting, and output power control. This information is supplied in accordance with §2.1033 (c) (6) (10).

2.6 Exhibit F (Raytheon Proprietary)

This exhibit contains detailed description of the means for variation of the operating power and tune-up. This information is supplied in accordance with §2.1033 (c) (9).

2.7 Exhibit G

This exhibit contains information about the maximum RF power rating for the MagnaStar® System. This information is supplied in accordance with §2.1033 (c) (7).

2.7 Exhibit H (Raytheon Proprietary)

This exhibit contains the device for determining and stabilizing the frequency accuracy. This information is supplied in accordance with §2.1033 (c) (10).

2.8 Exhibit I (Raytheon Proprietary)

This exhibit contains a list of the transmitter active device functional description and associated schematics. This information is supplied in accordance with §2.1033 (c) (10).

2.9 Exhibit J (Raytheon Proprietary)

This exhibit contains the block diagrams of all the transmitter-related circuit schematics. This information is supplied in accordance with §2.1033 (c) (10).

2.10 Exhibit K

This exhibit contains the test procedure that was used to collect the required data for submission. This information is supplied in accordance with §2.1033 (c) (8) (14).

2.11 Exhibit L

This exhibit is a summary of the test data collected for submission. This information is supplied in accordance with §2.1033 (c) (8) (14).

2.12 Exhibit M

This exhibit is the data collected for submission. This information is supplied in accordance with §2.1033 (c) (8) (14).

2.13 Exhibit N

This exhibit contains a photograph of the equipment identification plate on the unit and a drawing of the of the equipment identification plate. This information is supplied in accordance with §2.1033 (c) (11).

2.14 Exhibit O

This exhibit contains photographs of the equipment. This information is supplied in accordance with §2.1033 (c) (12).

2.15 Exhibit P

This exhibit addresses the exclusion of RF exposure requirements for the MagnaStar® ARTU.

47 CFR Reference	Brief Subject	Exhibit
2.1033 (c) (1)	Name & Location of Applicant	A
2.1033 (c) (2)	FCC equipment identification	B
2.1033 (c) (3)	Installation & Operation Information	C
2.1033 (c) (4)	Type of Modulation	D
2.1033 (c) (5)	Frequency Range	D
2.1033 (c) (6)	Range of Power, operating levels, & control	E
2.1033 (c) (7)	Maximum Power	G
2.1033 (c) (8)	DC voltages and currents into final	M
2.1033 (c) (9)	Tune-Up procedure	F
2.1033 (c) (10)	Schematics, Functional Diagrams	H, I, J
2.1033 (c) (11)	FCC Identification Plate	N
2.1033 (c) (12)	Photographs	O
2.1033 (c) (13)	Digital Modulation Techniques	F

2.1033 (c) (14)	Measurement Data	M
2.1033 (c) (15)	External RF AMP	NA