
AFRRCS Policies and Procedures

Section: Permitted Radio List

DOCUMENT REVISION HISTORY

Version	Date	Modified By	Section, Page(s), Text Revised
0.1	October 2, 2012	BS	Initial Draft
0.2	October 4, 2012	CB	Revision of Draft Document
0.3	February 14, 2013	BS	Add contacts & firmware version
0.4	October 4, 2013	BS	Add EF Johnson radios, update user contacts
0.5	March 7, 2014	BS	Add RELM KNG-M800, P800 radios
0.6	April 7, 2014	BS	Add Harris XG25
0.7	October 14, 2014	BS	Add process for accessing Standing Offer
0.8	October 21, 2014	BS	Update EF Johnson contact
0.9	April 7, 2015	BS	Update Harris contacts
1.0	April 22, 2015	BS	Update EF Johnson model information
1.1	May 20, 2015	BS	Update EF Johnson contacts & products, TAIT contacts
1.2	July 24, 2015	BS	Update Harris, Motorola contacts
1.3	October 1, 2015	BS	Add Motorola APX1500 Mobile, APX1000 portable, APX4500 mobile, APX3000 undercover, APX8000 portable tri-band
1.4	November 9, 2015	BS	Add Harris XG15P, update firmware version requirements
1.5	February 25, 2016	BS	Add Kenwood NX5200, 5400, 5700, Update 5900 series Update Kenwood contact information
2.0	March 31, 2016	KC	Added radio programming template requests to radio
3.0	May 19, 2016	BS	Add Harris XL-200, Aeronautical Category, TAIT 9400 Series
4.0	June 24, 2016	KC	Updated the standing offer radio pricing contact. Delete Kenwood TK series
5.0	August 15, 2016	KC	Add RELM KNG2 models. Update Harris contacts
6.0	September 28, 2016	BS	Field test advisory for EFJ radios Updated standing offer contact
7.0	December 20, 2016	KC	Removed field advisory for the EFJ radios and updated the required firmware.
8.0	January 25, 2017	KC	Added permitted pager category.
9.0	March 21, 2017	KC	Updated the email address for Unication

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Section

1

Permitted Radio List Background

The Alberta First Responders Radio Communications System (AFRRCS) will be a province wide open standards two-way radio network for public safety first responder agencies, including police, fire and ambulance. AFRRCS will provide these agencies with a common radio network to communicate with one another, and improve the coordination between different agencies.

Harris Canada Systems Inc. (Harris) was selected to design and build the AFRRCS P25 infrastructure. A prime objective was to create a system that allowed first responder agencies to use other manufacturer's P25 compliant devices on the network. The AFRRCS Transformation Team worked with the design team and manufacturers of P25 radio equipment to modify and develop tests for end user equipment that would operate seamlessly on the AFRRCS network while meeting the basic communication and safety requirements of first responders.

Section

2

Testing Process

An Opportunity Notice was posted on the Alberta Purchasing Connection, inviting all P25 manufacturers to submit information about their P25 subscriber equipment. All submissions were required to provide supportive P25 Compliance Assessment Program Documentation. Each compliant submission from the various manufacturers was advanced to the next phase, and invited to submit their subscriber equipment for testing in the AFRRCS P1 lab, located in Edmonton. Each manufacturer was offered time in the lab to ensure their equipment was correctly programmed to operate within the AFRRCS environment. The successful manufacturers and their products are contained in the Permitted Radio list in section 4 of this document.

Updating Process

All products on the Permitted List will be subject to additional testing as required to ensure ongoing functionality through version and system changes. Models on the Permitted Radio List will be tested as appropriate against the version or system changes to ensure the previously identified functionality and performance is consistent in the new environment. Any manufacturer whose model does not perform consistently through the changes will be requested to remedy the issue within the new environment. Any unit with specific isolated performance issues within the new environment will remain on the Permitted List but will be flagged with a notation that it did not operate reliability in the specified environment. New models will be accepted for testing on an ongoing basis.

The Permitted List will be a "living document" that reflects the addition of new equipment.

Section 3 Permitted Radio List

Manufacturer	Contacts	Permitted Radios	Firmware (specified version or higher)
EF Johnson	Greg Cust Regional Sales Phone: 780-818-8116 Email: gcust@ca.jvckenwood.com	* Viking VP900 700/800 Multiband)	8.16.13
	Ron Rickward Mgr. Engineering Technical Services Phone: 905-908-0199 Email: rrickward@ca.jvckenwood.com	* Viking VP600 or 700/800 models) * VM600 (700/800)	8.16.13 8.16.13
Harris	Brian Phillips , Reg. Sales Mgr. 1-403-516-3191	XG100, XM100	R5C05 or later
	Doug Cantera , Area Sales Manager Phone: 780-392-6805 Cell: 780-392-6805 dcantera@harris.com	XG25, XG75, P7300 series, M7300 series	R5C05 or later
	Huntley Quinn , Area sales Manager 587-216-8841 hquinn@harris.com Ivan Rodrigues, Tech Contact 1-(403) 815-9722 Ivan.Rodrigues@harris.com	XG15P XL200	R5C05 or later R5C05 or later
Kenwood	Greg Cust , Customer Sales Rep Phone: 780-818-8116 gcust@ca.jvckenwood.com	NX5200 portable, NX5700 mobile, NX5400 portable, NX5900 mobile	firmware version 1.65.00 checksum D77D
	Ron Rickward , Assistant Manager, Engineering & System Sales Office:1-800-775-0148, RRickward@ca.jvckenwood.com		

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Manufacturer	Contacts	Permitted Radios	Firmware (specified version or higher)
Motorola	Martyn Lutz Senior Account Manager (778) 878-5349 martyn.lutz@motorolasolutions.com	APX4000, APX6000, APX6500, APX7000, APX7500, XTS Series XTL Series APX1500, APX1000, APX4500, APX3000, APX8000	APX: R08.01.01 XTS/XTL: R17.01.02 APX: R14.00.04
RELM	Peter Rogell , Sales 321-953-7809 office 321-431-6208 cell prozell@relm.com Jim Holthaus , Tech Support 402-990-1551 jholthaus@relm.com	KNG P150, KNG M150 KNG P800 KNG M800 KNG2-P150 KNG2-P800	Portable firmware release 1.4.5.0 (or higher) Mobile firmware release 2.4.5.0 (or higher). 2.1.1 thru 4.2.6 2.1.1 thru 4.6 5.5.4.0C 5.5.4.0C
TAIT	Daisy M. Fisher , Business Development Manager Direct Line: 1-416-988-4989 Email: daisy.fisher@tairadio.com	TP9100 Series, TM9100 Series TP9400 Series TM9400 Services	V9.27.0.2 V2.06

AFRRCS engineering manages the radio programming templates. Templates and key management procedures are available upon request to transformationconsultant@gov.ab.ca.

Section 4 Permitted Pager List

Manufacturer	Contacts	Permitted Pager	Firmware (specified version or higher)
Unication Co Ltd.	Robert Marchetto, General Manager, Cdn. Operations marchetto@uniamericas.com , 604-205-7450, ext. 3301 Ms. Jenny Chung, Admin Asst. jchung@uniamericas.com , 604-205-7450, ext. 3302	Unication G4 P25 Pager Model number: 7/800 MHz G4 Pager	Firmware V0.90.0.14A-R11N2 or higher

Section 5 Aeronautical Permitted Radio List

Agencies with helicopters or airplanes require radios certified for airworthiness by Transport Canada, in addition to being permitted onto AFRRCS. The following requirements define the requirements for airborne AFRRCS radios.

Aeronautical Radio Requirements

An airborne FM radio is defined as a radio that is designed to be installed and operated in an aircraft. Primary power is from a 28 volt (nominal) negative ground aircraft power source.

- Airborne FM radios must be airworthiness approved by Transport Canada Civil Aviation (TCCA) or the FAA. A copy of the TCCA Authorized Release Certificate, Form One or equivalent must be included with each radio submitted for Permitted Radio testing.

Manufacturer	Contacts	Permitted Radios	Firmware (specified version or higher)
Technisonic Industries	Robert Riel, Sales 905-890-2113 x210 rriel@til.ca Jon Rorke, Tech Support 905-890-2113 x203 johnr@til.ca	TDFM-9100	Firmware V1.0.8 or higher.

Section
6

Appendix

The Process for Accessing the Standing Offer Radio Pricing

Accessing the Standing Offer is through the Government of Alberta “MyAgent” Web Access.

Approved Organizations that have access to “MyAgent” are listed on Alberta Purchasing Connection <http://www.purchasingconnection.ca>

Purchasers from Approved Organizations can access the information pertaining to the Standing Offer Contracts via “MyAgent” at the following menu path: Site Links box > click on Purchasing Site > Supply Arrangements box > click on Instructions Purchasing Goods > click on Radio and Accessories

First:

-Purchasers outside of the GoA need to review the Approved Organizations List at the following menu path:

Click I Am a Vendor > under Doing Business in APC, click 6th bullet – GOA Approved Organizations > click Approved Organizations 2013_Feb_21

If their organization is listed, this means someone from their Procurement unit has already been given access to the site. They will need to follow-up with this unit to access the posted information.

Second:

- if their organization is not listed, they need to send an email to Danis Lee, Director of Corporate Purchasing (danis.lee@gov.ab.ca) requesting access to “MyAgent”, stating it is for the Standing Offer Contracts for radios and accessories associated with the AFFRCS Project.