National Interagency Incident Communications Division

To: Incident Wildland Fire Radio Users

From: Chief, National Interagency Incident Communications Division

Subject: National Fire Approved Radios

Date: June 16th, 2026

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The attached consolidated list identifies national fire approved radios authorized for wildland fire support and forest health protection by federal employees, federal contractors, cooperators, and aviation. Only radios that meet fire approval standards are approved for use for interagency wildland fire support and forest health protection.

While the federal government establishes the required technical and performance standards for fire approved radios, it does not mandate the purchase of specific radio brands or models. Multiple manufacturers produce compliant radios, and any radio that has been evaluated and fire approved is acceptable for use.

Due to the unique software, cables, firmware, and training needed for each radio brand, providing full support for every compliant model creates a significant logistical and technical challenge. As a result, the National Interagency Incident Communications Division (NIICD) provides full programming, technical, and logistical support only for the radio models issued through the National Interagency Radio Support Cache (NIRSC).

If there are any questions about this information, please contact our division for any further assistance or clarification.

Thank you and have a safe fire season.

/s/
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1.0 NIICD Supported Fire Approved Radios

1.1 NIICD Supported Fire Approved Radios

The following radios are approved for interagency fire use and are currently supplied and maintained by the National Interagency Incident Radio Support Cache (NIRSC). NIICD approval should not be interpreted as an endorsement or purchasing recommendation, but as an operational reality of which radios can be fully supported on incidents by NIICD.

NIICD support includes:

- Front Keypad Programming documentation/instruction
- Cloning documentation/instruction
- Cloning Cables (VHF and UHF portable radios only)
- Training/Technical Support

Documentation and cloning cables are included in each VHF NFES# 004381 and UHF NFES# 004244 radio kit supplied by NIRSC. Cloning cables are not supplied or included with Aeronautical radios or kits.

NIICD support documents can be found at www.nifc.gov/resources/NIICD or by contacting the NIICD CDO.
CDO 24/7 Support: 208-387-5644

1.1a VHF P25 Digital Portable Radios

NIICD/NIRSC Supported VHF-FM P25 Digital Portable Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	DPHX5102X	Not supported after 2026
BK Technologies	KNG2-P150	Not Supported after 2026
BK Technologies	BKR-5000	
*Note: "***NIICD Supported Radios***" includes programming/cloning documentation and cloning cable from NIRSC.		

1.1b UHF P25 Digital Portable Radios

NIICD/NIRSC Supported UHF-FM P25 Digital Portable Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	KNG2-P400	
Midland	SPT-404A	End of Life Cycle, See Section 5.0
Motorola	XTS-2500[4]	
*Note: "***NIICD Supported Radios***" includes programming/cloning documentation and cloning cable from NIRSC.		

1.1c VHF P25 Digital Aeronautical Radios

NIICD/NIRSC Supported VHF-FM P25 Digital Aronautical Radios		
Manufacture	**Model**	**Remarks**
Anodyne Electronics	MTP136D	
Technisonic Industries	TDFM-136B[6]	
Technisonic Industries	TDFM-136B/NV[6]	
*Note: "***NIICD Supported Radios***" includes programming documentation from NIRSC.		

1.2 National Fire Approved Radios

The following radio list is a complete list of radios that are approved for interagency fire use. However, they do not receive support from NIICD/NIRSC unless otherwise noted in remarks as a "***NIICD Supported Radio***".
Users are entirely responsible for providing all necessary support, including:

- Programming and cloning cables
- Software
- Training/Technical Support
- Troubleshooting

All privatively owned radios must be maintained by the owner. Repair or tuning services are generally not available at incidents beyond basic troubleshooting. Users must be able to independently configure and program these radios for incident frequencies, which are subject to daily change. Arriving at an incident without the full capability to program and operate the radio to assigned frequencies is unacceptable.

1.2a VHF P25 Digital Portable Radios

VHF-FM P25 Digital Portable Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	GPH5102X[1,2,3]	Analog, Upgraded to P25 Digital[1,2,3]
BK Technologies	DPHX5102X	*NIICD Supported Radio
BK Technologies	KNG-P150	
BK Technologies	KNG-P150S	
BK Technologies	KNG2-P150	*NIICD Supported Radio
BK Technologies	BKR-5000	*NIICD Supported Radio
BK Technologies	BKR-9000	With single, dual, or multi-band VHF option installed.
Datron Guardian G25	PRV-100	End of Life Cycle, See Section 5.0
Midland	STP-105B	End of Life Cycle, See Section 5.0
Motorola	XTS-2500[4]	*NIICD Supported Radio
Motorola	XTS-5000[4]	
Motorola	VX-P949	End of Life Cycle, See Section 5.0
Motorola	APX6000[12,13], APX6000XE[12,13]	
Motorola	APX8000[12,13], APX8000XE[12,13]	
Motorola	APX8000H[12,13], APX8000HXE[12,13]	
Motorola	SRX2200[12,13]	
Thales 25	PRC-6894	End of Life Cycle, See Section 5.0
*Note: "***NIICD Supported Radios***" includes programming/cloning documentation and cloning cable from NIRSC. ***See Section 1.1***		

1.2b VHF P25 Digital Mobile Radios

VHF-FM P25 Digital Mobile Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	GMH[1,2,3]	Analog, Upgraded to P25 Digital[1,2,3]
BK Technologies	DMH5992	
BK Technologies	DMH59992X HP	
BK Technologies	KNG-M150	
Datron G25	RMV100	End of Life Cycle, See Section 5.0
Datron G25	RMV110	End of Life Cycle, See Section 5.0
Datron G25	ASU001	End of Life Cycle, See Section 5.0

VHF-FM P25 Digital Mobile Radios		
Manufacture	**Model**	**Remarks**
Kenwood	TK-5710	
Kenwood	TK-5720	
Kenwood	NX-5700	
Midland	STM-1050B	End of Life Cycle, See Section 5.0
Midland	STM-1055B	End of Life Cycle, See Section 5.0
Midland	STM-1115B	End of Life Cycle, See Section 5.0
Motorola	APX 6500[13]	
Motorola	APX 8500[13]	
Note: The use of mobile radios on NIICD issued frequencies is highly discouraged. NIICD assigned frequencies are authorized with a maximum transmit power of 10Watts. Going above the maximum authorized transmit power will increase potential interference with other adjacent incident users.		

1.2c UHF P25 Digital Portable Radios

UHF-FM P25 Digital Portable Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	KNG-P400	
BK Technologies	KNG-P400S	
BK Technologies	KNG2-P400	*NIICD Supported Radio
BK Technologies	BKR-9000	(with single, dual, or multi-band UHF option installed)
Midland	SPT-404A	*NIICD Supported Radio
Motorola	XTS-2500[4]	*NIICD Supported Radio
Motorola	XTS-5000[4]	
Motorola	APX6000[12,13], APX6000XE[12,13]	
Motorola	APX8000[12,13], APX8000XE[12,13]	
Motorola	APX8000H[12,13], APX8000HXE[12,13]	
Motorola	SRX2200[12,13]	
*Note: "***NIICD Supported Radios***" includes programming/cloning documentation and cloning cable from NIRSC. ***See Section 1.1***		

1.2d UHF P25 Digital Mobile Radios

UHF-FM P25 Digital Mobile Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	KNG-M400	
Kenwood	TK-5810	
Kenwood	TK-5820	
Mildand	STM-4040A	End of Life Cycle, See Section 5.0
Mildand	STM-4045A	End of Life Cycle, See Section 5.0
Motorola	APX 8500[13]	
Note: The use of mobile radios on NIICD issued frequencies is highly discouraged. NIICD assigned frequencies are authorized with a maximum transmit power of 10Watts. Going above the maximum authorized transmit power will increase potential interference with other adjacent incident users.		

1.2e VHF P25 Digital Aeronautical Radios

VHF-FM P25 Digital Aronautical Radios		
Manufacture	**Model**	**Remarks**
Anodyne Electronics	MTP136D	*NIICD Supported Radio
Cobham	NPX136D-070	*NIICD Supported Radio
Technisonic Industries	TDFM-136	*NIICD Supported Radio
Technisonic Industries	TDFM-136NV	
Technisonic Industries	TDFM-136A	*NIICD Supported Radio
Technisonic Industries	TDFM-136A/NV	
Technisonic Industries	TDFM-136B[6]	*NIICD Supported Radio
Technisonic Industries	TDFM-136B/NV[6]	*NIICD Supported Radio
*Note: "***NIICD Supported Radios***" includes programming documentation from NIRSC. ***See Section 1.1***		

1.2f 700/800 P25 Digital Portable/Mobile Radios

700/800 P25 Digital Portable/Mobile Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	BKR-9000	Portable Radio
Motorola	APX6000[12,13], APX6000XE[12,13]	Portable Radio
Motorola	APX8000[12,13], APX8000XE[12,13]	Portable Radio
Motorola	APX8000H[12,13], APX8000HXE[12,13]	Portable Radio
Motorola	APX8500	Mobile Radio
Motorola	SRX-2200	Portable Radio
Note: The use of mobile radios on NIICD issued frequencies is highly discouraged. NIICD assigned frequencies are authorized with a maximum transmit power of 10Watts. Going above the maximum authorized transmit power will increase potential interference with other adjacent incident users.		

1.2g Multi-Band P25 Digital Radios

Multi-Band P25 Digital Radios		
Manufacture	**Model**	**Remarks**
BK Technologies	BKR-9000	Portable Radio
Thales	Liberty	Portable Radio End of Life Cycle, See Section 5.0
Motorola	APX8000[12,13], APX8000XE[12,13]	Portable Radio
Motorola	APX8000H[12,13], APX8000HXE[12,13]	Portable Radio
Motorola	APX8500[13]	Mobile Radio
Technisonic Industries	TDFM-9000[7]	Aeronautical Radio
Technisonic Industries	TDFM-9100[7]	Aeronautical Radio
Technisonic Industries	TDFM-9200[7]	Aeronautical Radio
Technisonic Industries	TDFM-9300[7]	Aeronautical Radio
P25 Digital Radios capable of operating in more then one frequency band (136-174Mhz, 380-520Mhz, 700-800Mgz, and trunked)		

2.0 VHF AM Radios

Any FCC approved VHF-AM radio is acceptable for wildland fire support. VHF-AM radios do not receive fire approval. All VHF-AM radios used in aircraft shall meet the appropriate Technical Standard Order (TSO) category.

3.0 Cooperator Aviation Radios Accepted for Fire Use

Aviation is a dynamic environment and aviation radios are generally complex. Some basic guidelines are provided below so all parties can effectively communicate.

- Contain at least one conventional P25 digital VHF-FM RF module/transceiver operating from 136 to 174 MHz with front panel programmability (FPP).
- Any of the following options are acceptable to meet the Air Guard requirement (TX & RX 168.6250 MHz, TX CTCSS 110.9 Hz):
    1. A second conventional P25 digital VHF-FM RF module/transceiver operating from 136 to 174 MHz with FPP.
    2. A non-FPP conventional P25 digital VHF-FM RF module/transceiver operating from 136 to 174 MHz with a preset channel dedicated to Air Guard.
    3. A P25 digital trunked VHF-FM RF module/transceiver operating from 136 to 174 MHz with a non-trunked preset channel dedicated to Air.

Accepted Cooperator Aviation Radios		
Manufacture	**Model**	**Remarks**
Cobham	RT-500/C-5000[8]	
Cobham	RT-7000[8]	
Technisonic Industries	TDFM-6000 Series[10,11]	
Technisonic Industries	TDFM-7000 Series	
Technisonic Industries	TDFM-7300 Series	

4.0 Forest Health Protection Approved Radios

The following analog aviation radios are currently approved for US Forest Service (USFS) Forest Health Protection (FHP). FHP may also utilize approved P25 Digital Radios listed under Section 1: Fire Approved Radios.

The below analog radios are not allowed to be used in any aspect of interagency fire (reconnaissance or air tactical).

Analog VHF-FM Aeronautical Radios		
Manufacture	**Model**	**Remarks**
AEM	NTX138-050	Northern Airborne Technology
Technisonic Industries	TFM-138	Serial Number 1540 & Up
Technisonic Industries	TFM-138B/C/D	
Technisonic Industries	TFM-500	
Analog-only VHF-FM radios are not approved for DOI unless a waiver is granted to the operation Bureau by the Telecommunications Systems Division (TSD) of th DOI Office of the Chief Information Officer (OCIO).		

5.0 Radio Manufacture End of Life Cycle

This section identifies approved radios that are now designated as end of life by each manufacture because parts, accessories, and support are no longer available.

Each radio listed includes the date it was moved into the end of life cycle category. These radios will remain approved for use for three years from that date. After this three-year period expires, the radio will be removed from this document and will no longer be approved for use on any interagency incident.

Manufacture Disignated End of Life Cycle			
Manufacture	**Model**	**End of Life Cycle Date**	**Unsupported Date**
BK Technologies	DPHX5102X	5/08/2026	
Datron Guardian	G25-PRV100	5/08/2026	
Datron	G25-RMV100	5/08/2026	
Datron	G25-RMV110	5/08/2026	
Datron	G25-ASU001	5/08/2026	
Midland	STP404A	5/08/2026	
Midland	STP105B	5/08/2026	
Midland	STM-1050B	5/08/2026	
Midland	STM-1055B	5/08/2026	
Midland	STM-1115B	5/08/2026	
Midland	STM-4040A	5/08/2026	
Midland	STM-4045A	5/08/2026	
Thales 25	PRC-6894	5/08/2026	
Thales	Liberty	5/08/2026	

Questions concerning radios and requirements on this list can be directed to:
Bill Forsyth (208-387-5720) william.forsyth@usda.gov (portable and mobile radios) or
Ken Tillbrook (208-387-5648) kenneth.tillbrook@usda.gov (aeronautical radios).

Radio vendors may contact Bill Forsyth to submit products for evaluation for inclusion on the Fire Approved Radios list.

Subscript Comment List

1 Purchases of new analog radios are not recommended. At some point in the future, fire will require that only P25 digital radios be used.

2 Several contracts specify that only P25 digital radios are acceptable. These “analog only” radios are not acceptable for contracts requiring P25 digital radios.

3 When a P25 digital radio is required and a BK GPH/GMH radio with P25 digital upgrade is used, the user must provide proof that the radio has been upgraded prior to it being accepted.

4 The Motorola XTS2500 and XTS5000 P25 digital portable radios are fire compliant when operating radio software R.15.00.05 or newer.

5 The Cobham (formerly Northern Airborne Technology) NPX136D-000 is only acceptable for fire when used as a substitute for the AUX-FM provisions and an Air Guard receiver for this radio is not contractually required. The NPX136D-000 is not acceptable as a stand-alone radio.

6 The Technisonic Industries TDFM-136B and TDFM-136B/NV are fire compliant when operating Radio Info: Main Code 1.1.4 or newer and has Modification #2 installed.

7 The Technisonic Industries TDFM-9000/9100/9200/9300 radios are highly dependent upon settings in Motorola’s CPS software. CPS software is very complex and settings should only be changed by a person trained in CPS use. TDFM-9000/9100/9200/9300 radios are fire compliant under the following conditions:

- Contain at least one conventional P25 digital VHF-FM RF module operating from 136 to 174 MHz with front panel programmability (FPP) enabled.
- Any of the following options are acceptable to meet the Air Guard requirement (transmit & receive 168.6250 MHz with a transmit CTCSS tone of 110.9 Hz):
  1. A second conventional P25 digital VHF-FM RF module operating from 136 to 174 MHz with FPP enabled.
  2. A non-FPP conventional P25 digital VHF-FM RF module operating from 136 to 174 MHz with a preset channel dedicated to Air Guard.
  3. A P25 digital trunked VHF-FM RF module operating from 136 to 174 MHz with a non-trunked preset channel dedicated to Air Guard.
- Soft Keys (in order of use) (CPS = Menu Items):
  1. Zone, FPP, Scan, Mute, Info.
  2. The Zone containing FPP should be identified as “Zone 1 FPP” or similar. When only the Zone having FPP exists then the soft key “Zone” is not required.
- Function Keys (CPS = Buttons - General):
  1. F1 – Set to Monitor.
- Keypad Keys (CPS = Switches):
  1. M UP/M DN – Set as channel select.
  2. TSW – Set as Blank (A)/PL Disable (B)/Blank (C).
- Power Knob:
  1. Selections shall include Volume Adjust and Channel Changes.
- All features on the FPP screen shall be editable and have the ability to be saved to the selected channel.
- Other functions enabled:
  1. DTMF operation
  2. 90 second time-out-timer

8 Recommended RT-5000 transceiver versions are only those with MODs 34, 36, or 38 installed using a C-5000 controller with Software Identification 12 (SWID 12) loaded.

9 The Cobham RT-7000 radio, when using Motorola APX modules, is highly dependent upon settings in Motorola’s CPS software. CPS software is very complex and settings should only be changed by a person trained in CPS use. At a minimum, the following FPP functions should be enabled: receive and transmit frequency edit, channel mode edit, receive and transmit CTCSS tone edit, receive and transmit network access code and talkgroup edit.

10 A Technisonic AMS-6000 Audio Panel is highly recommended when using the TDFM-6000 series radio.

11 The Technisonic TDFM-6148 radio does not meet the basic guidelines for single radio installations.

12 These models are hazardous location approved. Refer to manual supplied with radio for hazardous location approved battery and accessories.

13 Incidents that are supported by Cal-OES Public Safety Communications Technicians will have cloning capabilities for Motorola APX portable radios that meet the guidelines outlined below. Support for cloning will also be available at incidents that have Communications Technicians that have the training and tools required for cloning. APX Zone Cloning Tool Version
Requirements:

- APX Zone Cloning Tool: R1.0.0.2 (or later)
- APX FW Version: R34.00.00 (or later)
- APX NEXT FW Version: R07.02.00 (or later)
- ASTRO CPS Versi0on: R34.00.00 (or later)

The radio feature set requires either the **Q52** or **Q53** (FPP and Zone Cloning) option. The radio must be pre-configured to have a minimum of three cloning zones