



Emergency Telephone System Board Of DuPage County Memorandum 25-0427

TO: Chair Schwarze and ETS Board members
FROM: DEDIR System Fire Agency Participant
SUBJECT: APXNEXTXN Fire Radio Programming

With this memorandum, in order to finalize the portable radio order for the undersigned fire agency, as Fire Chief, I am indicating the following:

		Initial if Yes
1	I have read the attached ETSB NFPA 1930 information.	
2	I understand that a talkgroup/channel with a designation "HZ" at the end will operate in hazard zone mode wherever it appears in the radio.	
3	I have completed and submitted my Fleetmap spreadsheet to Monday.com.	
4	I have previously submitted my final template and DO NOT want to make any changes to my template. I DO NOT want hazard zones in the radio at this time.	
5	I have previously submitted my final template and DO NOT want any talkgroup/channels to operate in hazard zone mode in my user selectable zones. I want Template Option 2 with the two additional zones with hazard zone channels. I understand that I do not need to resubmit my template.	
6	I have edited any talkgroup/channels I want to operate in hazard zone mode in my user selectable zones. I want Template Option 2 with the two additional zones with hazard zone channels. I understand that I need to resubmit my template.	

Each portable radio will need its own unique Alias name. As you choose or update your Alias naming conventions, keep in mind that the existing APX7500 mobile radios will not be able to be updated over the air so any alias changes will be less frequent.

CommandCentral and email: APXNextXN is equipped with GPS. The PSAPs have the ability to see portables through CommandCentral Aware. In order to see units on your radio screen, the user needs to have access to CommandCentral. This requires an email for each user that has access. For CommandCentral, the preferred method is to tie an email to a portable, however, this is **not** required. The GPS in the radio is operational without the email. On the fleetmap, the Chief will determine who will have access to CommandCentral by providing an email address. If the email address is to be tied to a portable select **Yes** next to that email address on Fleet map (column I). All other emails should be **No** and will be entered in as users in CommandCentral. Those users will have to log in and out of the radio each shift. A power point has been provided to give you some information and to help you in your decision.

Once you have uploaded this form and your fire template to Monday.com, the Fire Focus Group will review your submission. If there are no questions from the review, the template will be put in the queue for code plug creation. You will be contacted when your test radios are ready.

Agency Name : _____

Fire Chief Signature

Date: _____

Print Name

Return this form via Monday.com dashboard when executed.



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The NFPA 1930 (formerly 1802) Standard defines the minimum requirements for two-way portable RF voice communications devices (i.e. portable radios) for use by emergency services personnel operating in the hazard zone. Hazard zone is defined as the area where emergency services personnel might be exposed to a hazard or hazardous atmosphere; or a particular substance, device, event, circumstance or condition that presents a danger, including immediately dangerous to life and health (IDLH) environments. These activities include, but are not limited to, fire suppression--both interior/exterior structural and wildland, as well as hazardous materials mitigation and technical rescue.

Upon initial testing of the Motorola APX NEXT XN portable radio the Fire Focus Group identified several issues that made the NFPA compliant radio difficult to use and potentially unsafe in some situations. Two of those concerns were:

- the radio was required to start up in hazard zone mode which could cause unintended channel changes
- announcements had to be continuously repeated if interrupted by radio traffic.

Motorola updated the programming to allow start up on any selected channel and to limit repeated announcements to one attempt.

Some of the other issues that Focus Group identified were:

- loud volume for radio traffic
- loud radio announcements (e.g. Self-check failure).

The Focus Group was successful in changing the NFPA Standard to make these requirements adjustable by the Authority Having Jurisdiction to much lower and more palatable volume levels. Unfortunately, Motorola's software changes will take up to a year or more to implement. Therefore, the Focus Group updated the standard template to have both the hazard zone mode and non-hazard zone mode available for each fireground and FD OPS talkgroup.

The Focus Group recommends that we maintain a common standardized portion of the template except for the User Selectable zones. Ideally all Chiefs would select Option 2 with the two zones of channels that operate in hazard zone mode. The advantages of this selection are:

- This makes the portables as deployed fully compliant with the NFPA standard
- Standardized templates make all mobiles and portables function the same
- The two hazard zones are not typically accessed and are not an issue
- Users have the option to use hazard zone channels as appropriate
- Users have the ability to test hazard zone channel use in training
- Radios are set up for future hazard zone mode operation when Motorola makes programming updates consistent with the NFPA standard changes



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Each Fire Chief will determine which (if any) of the 23 FD OPS talkgroups and 8 conventional fireground channels they would like to have operate in Hazard Zone Mode in their User Selectable zones. The individual radio user will be able to select either operating mode if the two hazard zones are included, but these channels will operate as determined by the Chief in the User Selectable zones.

Talkgroups JN OPS SEC 1 and 2 are **not** available for hazard zone mode operation as they are intended for joint police/fire operations where louder volume settings could impact police officer and firefighter safety. The talkgroups/channels that can be designated to operate in the hazard zone mode or non-hazard zone mode in User Selectable zones are listed below. Please update your department's template with the operating mode(s) you prefer for each channel. For example FG RED could operate in HZM in one zone and not in an other zone.

FG/OPS Hazard Zone Mode	FG/OPS Non- Hazard Zone Mode
vFG BLUEHZ	vFG BLUE
vFG WHTHZ	vFG WHITE
vFG REDHZ	vFG RED
vFG GREYHZ	vFG GREY
vFG BLCKHZ	vFG BLACK
vFG GOLDHZ	vFG GOLD
7FG ORNGHZ	7FG ORNG
7FG GRNHZ	7FG GRN
FDOPS 11HZ	FD OPS 11
FDOPS 12HZ	FD OPS 12
FDOPS 21HZ	FD OPS 21
FDOPS 22HZ	FD OPS 22
FDOPS 31HZ	FD OPS 31
FDOPS 32HZ	FD OPS 32
FDOPS E1HZ	FD OPS E1
FDOPS E2HZ	FD OPS E2
FDOPS E3HZ	FD OPS E3
FDOPS N1HZ	FD OPS N1
FDOPS N2HZ	FD OPS N2
FDOPS N3HZ	FD OPS N3
FDOPS S1HZ	FD OPS S1
FDOPS S2HZ	FD OPS S2
FDOPS S3HZ	FD OPS S3