

अध्यक्ष, रेलवे बोर्ड एवं

पदेन प्रमुख सचिव, भारतः सरकार रेल मंत्रालय नई दिल्ली-110 001 CHAIRMAN, RAILWAY BOARD

EX-OFFICIO PRINCIPAL SECRETARY, GOVERNMENT OF INDIA MINISTRY OF RAILWAYS NEW DELHI-110001

August 24, 2010

D.O.No.2009/Safety(A&R)/19/29

My dear (all GMs)

Sub: Exclusive frequency for use of walkie-talkie/VHF sets by the ASMs

and Drivers /Guards etc

Ref: 1) Railway Board's letter No.2004/Tele/WL/2 /Misc dt.22.5.2007

2) Adv/Safety's letter No.2009/Safety(A&R)/19/29 dt.2.3.2010

Standardization of the frequency for walkie-talkie sets to be used by different departments and the staff has been done and circulated to all Zonal Railways vide Railway Board's above mentioned letter(copy enclosed). The standardization has been done with a view to provide a common frequency to the staff of different departments along with at least one exclusive frequency separately for each department. For reasons of safety, the Loco Pilot/Guards along with the Station Master have an exclusive frequency, access of which should not be with any other official.

I have, however, come across rampant misuse of the use of walkie-talkie sets as a number of other officials are talking to the ASM/Loco Pilot on this frequency channel. This is a safety hazard.

The Safety Directorate had vide their letter of even number dated 2.3.2010 addressed to COMs of your Railway communicated my concern on the issue and asked for a feedback as to whether the laid down system is followed. We have still to get a feedback on the above.

I would expect that the integrity of the use of the allotted frequency in walkie-talkie sets is being ensured on your zone.

With best wishes.

Encl: as above

Yours sincerely,

(Vivek Sahai)

General Managers Zonal Railways (including GM Metro/Kolkata

& MD, KRCL)

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Government of India Ministry of Railways (Railway Board)

No. 2009/Safety (A&R)/19/29

Dated: 02.03.10

The Chief Operations Manager All Indian Railways

Sub: Exclusive Frequency for use of Walkie-Talkie/VHF

sets by the ASMs and Drivers/Guard etc.

Ref: Rly. Bd's letter No. 2004/Tele/WL/2/Misc. dt.

22.05.2007(copy enclosed)

With the proliferation in the use of Walkie-Talkie (VHF) sets it has become essential to earmark separate frequency bands (channels) for the different category of staff. Accordingly standardization of the frequency to be used by different departments and their staff has been done and circulated to all Zonal Railways vide letter under reference mentioned above.

The standardization has been done with a view to provide a common frequency to the staff of different departments along with at least an exclusive frequency separately for each department. For instance, the Operating department has a frequency of 162.100 Mhz for shunting operations; frequencies 150.100, 150.150, 159.600 Mhz exclusively to be used between adjacent stations for issue of PLC; frequency of 159.700 Mhz between ASM and LC Gates for communication with LC Gate wherever required etc.

It is important to note that an exclusive frequency 161.150 Mhz has been earmarked for the Driver and Guards' communication which has not been given to any other staff. VHF sets will have priority channels to ensure automatic switchover to drivers/guards communication channel in case of the calling station master failing to switchover the channel manually within 5 seconds after the talk is over.

The Telecom deptt. is required to programme each VHF before issue to the respective staff/deptt. based on access permitted of the frequencies allocated. It may be ensured that this is being done.

MT has desired that each of zonal railways should take the following action:-

 Check whether guidelines of allocation of frequencies as circulated by Board's above mentioned letter are being followed on each railway.

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- Whether VHF sets have been programmed with the allotted frequency before issue to the respective departments or directly to the staff. The switch over arrangement from one frequency to another is only as assigned to their department.
- Whether the ASMs and Drivers/Guards communication through the nominated frequency is exclusively provided only to them and cannot be accessed by any other department.
- Where there is a provision for automatic switch over of the VHF sets provided to the ASMs with the Driver/Guard communication channel in case of the Calling Station Master failure to switch over the channel manually within 5 seconds after the talk is over.

As desired by MT, you may get a census on your Railway done on the above items and send a consolidated report for his information.

Encl: as above.

(Kamlesh Gupta) Adviser (Safety) Railway Board

RB Tele 3/ 2007

GOVERNMENT OF INDIA MINISTRY OF RAILWAYS (RAILWAY BOARD) Tele 3/ 2007

No.2004/Tele/WL/2/Misc.

New Delhi, dated 22.05.2007.

General Managers, All Indian Railways.

Sub: Guidelines for utilization of Walkie-Talkie/VHF sets on Indian Railways.

VHF sets of 25W and walkie-talkie sets of 5W are being used for different operation and maintenance functions including Driver & Guard communication and station to station communication. Since all these sets can be tuned in entire VHF band and operated in surface channel mode, there is a need to streamline and standardize the system of working. Therefore, the following guidelines are issued:-

- 1. Frequency allocation for Departments: Henceforth, frequency programming of 25W VHF sets and walkie-talkie sets for department-wise applications should be done as per Frequency Allocation given in Armexure-1
- 2. Frequency Allocation of VHF sets with the SM:

Normally one 25W simplex VHF set will be provided to SMs at the Railways stations. This set will be provided with DTMF signaling for selective calling facility and CTCSS/DCS signaling to ensure one to one secured and secret communication for block communication channel. There should be display of called and calling party ID or each VHF set. This can be done either by programming and displaying a code or the name of the station of calling party on called party set and vice a versa. This set will have priority channel scal (Guard Driver communication channel/with station master a frequency 161.15 MHz) to ensure automatic switch over of VHF set to Driver Guard communication channel in case of calling statio master, failed to switch over the channel manually within 5 secretary the talks over.

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3. Frequency allocation for block communication by using VIIF sets during failure of Block Instrument and Electrical Communication Instrument:

For exchanging paper line clear, VHF sets should be used as per the directive issued by Board's letter No.2005/Safety(A&R)/19/7 dated 01.07.2005. From the consideration of safety, three (3) frequencies are allotted for straight route for taking 'Line Clear' and programmed as channel-5, 6 and 7. These channels should be programmed with CTCSS/MF coding using alternate frequencies for adjacent sections as detailed below:-

Channel-5 for 1st section (150.100 Mhz)
Channel-6 for 2nd adjoining section (150.150 Mhz)
Channel-7 for adjoining 3rd section (159.600 Mhz).
Channel-5 for next 4th section.
Channel-6 for next 5th section and so on

For the junction stations the more number of frequencies will be required to maintain alternate frequency plan for adjacent sections. Six additional frequencies are kept reserved for this purpose as shown in Annex.-I. Railways may prepare their own frequency plan for Junction Stations using these frequencies.

- 4. VHF sets provided to Operating and Maintenance Staff:
- i) 25W Simplex VHF sets provided to SMs at Railway Station will be on Driver Guard frequency with priority scan and will have single knob control for setting to frequencies for:
 - a) Taking line clear at the time of block failure;
 - b) Coordination with maintenance staff;
 - c) Coordination with other station staff for shunting & yard movements.
- ii) The walkie-talkie sets provided to various departments shall be tuned to two (2) frequencies/channels only i.e. one common channel-10 (160.400 Mhz) and second to that allocated to the respective departments.
- iii) The departmental staff should keep their walkie-talkie sets tuned to the frequency/channels allotted to them as per Annexure-1.

- iv) A common frequency (160.400 Mhz) for inter-departmental use is provided so that users of different department with mutual consent can communicate among themselves when they switch over to this channel. This channel can also be used for direct dialing the exchange subscribers where this facility is provided.
- v) Staff of Operating department such as SMs and shunting staff should use VHF sets in channel-14 (162.100 MHz) for shunting and yard communication.
- vi) All activities as detailed above should be carried out through secured communication on MTRC phones on the sections where Mobile Train Radio Communication is commissioned.

5. VHF sets provided in ARTs:

ART frequency (147.975 MHz) should be used for communication at disaster sites. This should normally be restricted to 30 sets in the ART which should be distributed only among the officers/supervisors directly connected with relief and restoration arrangements at site, as decided by the senior most officer-in-charge. Other users having separate walkie-talkie sets should not come on this frequency.

6. Communication with Level Crossing Gate:

When needed, a separate 25W simplex VHF set shall be provided at level crossing gate and nearest station. Only channel-9 (159.700 MHz) should be programmed in this 25W VHF set with CTCSS/MF coding.

These guidelines are issued in consultation with the Safety and Traffic Directorates of Ministry of Railways.

DA: Annexure-I

(Sanjay Dungrakoti)
Director/Tele

Copy to:-

CSTEs/All Indian Railways. ED/Tele/RDSO/Lko.

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147.975	RPF Mechenical depti.
147.6400 ART Frequency 147.975 X 148.100 XC 150.100 XC 150.100 XC 150.150 XC 150.150 XC 159.500 XC 160.550 XC 161.150 XC 161.150 XC 161.150 XC 161.150 XC 161.150 XC 161.160 XC	Security Department
147.975 X </td <td></td>	
148.100 XC XC 149.750 XC XC 150.150 XC XC 159.600 XC XC 159.700 XC XC 160.400 X X 160.400 X X 160.400 X X 161.150 X X 161.150 X X 161.150 X X 161.150 X X 161.140.0 XC X 17 149.800 XC X 18 149.850 XC X 19 151.400 XC X	X Machanical Department
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150.150 XC XC XC 159.500 XC XC XC 159.500 XC XC XC 1 159.500 XC XC XC 2 161.150 XC XC XC 3 (\$\text{14.25}\$) XC XC XC 6 148.050 XC XC XC 18 149.850 XC XC XC 19 151.400 XC XC XC	F2- for PLC; 2nd sec of Straight Section
159.600 XC XC X	F3. for PLC; 3rd sec of Straight Section
159.550 XC X<	S&T Department
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161.150 X X 162.100 X X 146.200 XC XC 148.050 XC XC 149.800 XC XC 149.850 XC XC 151.400 XC XC	Driver & Guard communication
167.425 X X X X 146.200 XC X 148.050 XC X 148.050 XC X X 149.800 XC X	Electrical Department.
162.100 X X 146.200 XC XC 148.050 XC XC 149.800 XC XC 151.400 XC XC	Shunting & Yard Communication
146.200 148.050 149.800 · 149.850	F4- for PLC; 1st section
148.050 149.800 149.850 151.400	F5- for PLC; 2nd sec Station(Direction 1)
149.850 149.850 151.400	F6- for PLC; 3rd sec
149.850	F7- for PLC; 1st section
151.400	F8- for PLC; 2nd sec Station(Direction 2)
	F9- for PLC; 3rd sec
20 151.450 XC	
Note:	
x . Channel programmed with CTCSS/MF coding.	
x For Train escorting duties only.	ne other frequencies except Driver Guard.