

**Central Railway**



**Prin. Chief Electrical  
Engineer's Office,  
Mumbai CSMT-400001**

**CEE/OP Instruction No.02/2024**

No. L.253.AC.136.C

Date: 26.02.2024

**Sr. DEE /TRO/BB, BSL, NGP  
Sr. DME/Fr & Op/BB  
DME/Op/PA  
DME/O&C/SUR  
Sr. DEE/TRS/AQ,BSL,KYN  
Sr. DME /D/KYN,PA,CLA**

**Sub:** Functioning of VCD and it's isolation on locos

**Ref:** Railway Board's letter No.2024/Elect(TRS)/113/1( Misc) dated 20.02.2024

Recently, on dated 18.01.2024, there was derailment of a goods train in Kamlanga yard on Khurda Road division of ECOR. During investigation, it was noticed that VCD of working loco 33459 WAG9 VSKP(D) was in isolated condition.

On dated 07.02.2024, the case was reviewed at Railway Board and has directed as under:

- (i) Board's instructions regarding functioning of VCD on locomotives are to be reiterated for compliance.
- (ii) Drive should be launched by Zonal Railways to ascertain the sealing and functioning of VCD in every locomotive.
- (iii) Technical feasibility of generation of alarm in real time on isolation of VCD can be explored.

In view of above, the instructions issued by Railway Board's vide letter No. 2014/Safety(DM)/7/1 dated 25.08.2014 (copy enclosed), are reiterated as under:

1. No locomotive should be turned out from the shed with VCD in defective/isolated condition.
2. On run. if VCD becomes defective, Loco Pilot should isolate the VCD only after getting authorization to do so from the Power Control/TLC.
3. If the VCD gets defective/isolated on run, the locomotive should be declared as failed at loco changing point or destination.
4. Loco sheds should thoroughly investigate the reason of VCD malfunctioning or becoming defective on run and initiate corrective action.


To monitor the activation of VCD, a safety drive for 15 days should be launched from 27.02.2024 and ensure following:

1. In all locomotives, availability of VCD counter.
2. No locomotive should be turned out from the shed with VCD in defective/isolated condition.
3. At the time of taking over charge and handing over charge of the locomotives, the crew should record the VCD counter number in the loco repair book.
4. On run, if VCD becomes defective, Loco Pilot should isolate the VCD only after getting authorization to do so from the Power Control/TLC.
5. If the VCD gets defective/isolated on run, the locomotive should be declared as failed at loco changing point or destination.
6. Loco sheds should thoroughly investigate the reason of VCD malfunctioning or becoming defective on run and initiate corrective action.
7. On arrival to the shed, the crew involved in the VCD actuation on run should be identified and the concerned controlling officer for corrective action should be advised accordingly by the loco shed.

CLIs to be instructed to counsel the loco running staff accordingly. Compliance of the above instructions may be ensured and report to be submitted in following format:

1. No. of CLIs/Officers associated in drive:
2. No of locos checked during drive:
3. No of irregularities noticed during drive:
4. Action taken to rectify irregularities:
5. No. of staff counselled (cadre wise):

DA- As above

 26.02.2024

(H.M.Sharma)

Chief Electrical Engineer (Op)

Copy to:PCEE, PCSO: For information please

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23/02/24

प्र.मु.वि.ईजी का.  
म. रे. मुंबई छ.शि.म ट  
पंजी संख्या RB-02  
दिनांक 21/2/24  
e-mail date

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Azadi Ka  
Amrit Mahotsav

भारत सरकार Government of India  
रेल मंत्रालय Ministry of Railways  
रेलवे बोर्ड (Railway Board)



No. 2024/Elect (TRS) /113/1 (Misc)

New Delhi, Dated : 20.02.2024

**General Managers (Elect)**  
**All Zonal Railways**

**SUB : Functioning of VCD and its isolation on locos**  
Ref : Rly Board's letter No.2014/Safety (DM) /7/1 dated 25.08.14  
(copy enclosed)

Board, in meeting held on 07.02.2024, reviewed the case of derailment of goods train in Kamlanga Yard on Khurda Road divn of ECoR on 18.01.24 and has directed as under:

- Railway Board's instructions regarding functioning of VCD on locomotives are to be reiterated for compliance.
- Drive should be launched by Zonal Railways to ascertain the sealing and functioning of VCD in every locomotive.
- Technical feasibility of generation of alarm in real time on isolation of VCD be explored.

In this regard attention is drawn to instructions regarding functioning of VCDs, issued to Zonal Railways vide letter under reference above. VCD counter is available on conventional locos and therefore, instructions should be complied as directed.

For three phase electric locos and all diesel locos every penalty brake operation of VCD gets recorded. On arrival in shed, cases of VCD penalty brake operation should be culled out and advised to the concerned officer(s) for necessary corrective action.

Zonal Railways are advised to launch a drive in accordance to directives of Board and send compliance.

DA : as above

( Mohit Chandra )

PED/EE(RS), Rly Board  
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Copy to :

- FrED Stds/Elect, RDSO
  - ED(MP), RDSO
- to explore the technical feasibility of generation of alarm in real time on isolation of VCD in locos.

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CESE	मु.नि.
CELE	मु.नि.
CEDE	मु.नि.
CEE/OP	मु.नि.
CEGE	मु.नि.
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CEE/EE	मु.नि.
CMPE (D)	मु.नि.
DY. CEE/TRC	उप
DY. CEE/EMU/H	उप
DY. CEE/G/H	उप
DY. CEE D&G	उप
DY. CEE/EM	उप
DY. CEE/O	उप
DY. CEE/CONV	उप
F.Y.CME (P&)	उप
DY. CME/	उप

Room No: 151 B रेल भवन, रायचौना मार्ग, नई दिल्ली - 110001

June 23-24

Government of India  
Ministry of Railways  
(Railway Board)

No. 2014/Safety(DM)/7/1

New Delhi, dated 25.08.2014

The General Managers  
All Indian Railways  
CMD, Konkan Railway Corporation Ltd.

Sub:- Functioning Of Vigilance Control Device (VCD) on Locomotives.

Vigilance Control Device (VCD) is provided on the locomotive to monitor the alertness of the driver through a multi-resetting system which gets reset by specified normal operational activities of the crew, in addition to the acknowledgement of the push button provided for Crew. In absence of normal driving functioning or acknowledgement at specified intervals the device will activate emergency brake application after due audio/visual warning.

There were incidences of SPAD/Collision reported to Board by Zonal Railways due to lack of alertness of Crew and VCD was found to be in isolated condition. These cases could have been avoided, if VCD were in working condition.

In view of the above, Zonal Railways are advised to ensure that:-

1. No locomotive should be turned out from the shed with VCD in defective/isolated condition.
2. On run, if VCD becomes defective, Loco Pilot should isolate the VCD only after getting an authorisation to do so from the Power Control/TLC.
3. If the VCD gets defective/isolated on run, the locomotive should be declared as failed at loco changing point or destination.
4. Loco Sheds should thoroughly investigate the reasons for VCD malfunctioning or becoming defective on run and initiate corrective action.

To monitor the activation of VCD on run, the following procedure should be followed over the Zonal Railways:-

1. In all the locomotives VCD counter should be provided.
2. At the time of taking over charge and handing over charge of the locomotive, the Crew should record the VCD counter number in the Loco repair book.
3. On arrival to the Shed, the Crew involved in the VCD actuation on run should be identified and the concerned controlling officer for corrective action should be advised accordingly by the Loco shed.

Compliance of above instructions should be closely monitored at both Divisional and Zonal HQ Officers level.

This letter is issued with the approval of Railway Board (MT,MM&ML)

*Sanjiv Garg*  
25-08-14  
(Sanjiv Garg)  
Adviser (Safety)  
Railway Board

Copy to Chief Safety Office : 4, All Zonal Railways.