

Loco Pilot Instruction No.09/2025

Sub: Operation of Vigilance Control Device (VCD) and change in VCD acknowledgement procedure .

Ref : (i) Dy. CEE(OP)'s L. No. L.326.OP.Loco.Corr/56 dated 16.06.2025.
(ii) RDSO's Modification Sheet No.RDSO/2024/EL/MS/0505
(Rev-1) dated 25.02.2025

In recent, there have been cases reported in which VCD has acted during train on run. All crew must be familiar regarding functioning of VCD operating cycles, resetting and isolation procedure of VCD in different type of locomotives as VCD cycles is different in different type of Locomotives, which is as follows:

S.N.	Operating Cycle	Conventional Locomotive	3-Phase Locomotives	
		Time period In Sec	Time period In Sec (KBIL)	Time period In Sec (FTIL)
1	Vigilance Cycle	60	60	60
2	Warning Cycle	8	8	8
3	Warning Cycle	8	8	8
4	Penalty Brake Cycle	32	32	120
5	Penalty Brake Cycle	Until reset by Vigilance Reset Switch	Until reset by BPVR	Until reset by BPVR

A. Indication Regarding VCD Activation

1. **Conventional Locomotive:** in VCD cab unit, along with Green LED, Yellow LED will be in flashing condition and continuous buzzer will sound.
2. **3-Phase Locomotive:** LSVW indication will glow continuously along with BPFA and buzzer will also sound continuously. In DDs, fault message regarding Emergency brake application through VCD will come.

B. Recovery of Penalty brake (VCD Reset):

- **In Conventional Locomotive:**
 - Bring MP to zero
 - Keep A-9 in emergency position to avoid MR pressure drop.
 - After 32 Second, Press Vigilance Reset switch.
 - After MR/BP pressure gets normal, start the train.
- **In 3-Phase Locomotive with E-70(FTIL) Brake System:**
 - Bring throttle on 'O'.
 - Keep A-9 in emergency position
 - Wait for 120 sec without switching off control electronics.
 - Press BPVR to reset VCD, LSVW will be extinguished & buzzer will stop.
 - Press & release VCD foot switch PVCD.
 - Press BPFA for acknowledgement of fault message
 - Keep A-9 on 'Run' position.
 - Resume traction after MR/BP pressure becomes normal.
- **In 3-Phase Locomotive with CCB-2(KBIL) Brake System:**
 - After stopping train, Bring throttle and MPJ to '0'.
 - Wait for minimum 32 sec.
 - Keep A-9 handle to Emergency and press BPVR and release it.
 - Acknowledge the fault by pressing BPFA.
 - After some time when 'Okay to Run BP Target - 0.0 message appears on the A 9 screen then operate A 9 handle to Run position.
 - Check BP pressure comes to 5.0 kg/cm2 along with BC pressure to 0'.
 - After confirming the pressure restored fully, start the train.

C. Isolation of VCD: if VCD malfunctions or gets defective, VCD may be isolated by LP after authorization by TLC.

1. **Conventional Locomotive**: Change the HVCD switch position from '1' to '0' to isolate the VCD.
2. **3-Phase Locomotive**: Change the position of switch 237.1 (Located in SB-1 panel) from '1' to '0' to isolate the VCD.

Change in Acknowledgement Procedure of VCD.

लोको पायलट कृपया ध्यान दें

- विजिलेस वार्निंग को एक्क्रॉलेज करने के लिए ड्राइवर डेस्क के क्षैतिज तल में मशरूम हेड पुश-बटन स्विच (BPVG) प्रदान किया गया है।
- लोको चालक कृपया विजिलेस वार्निंग को एक्क्रॉलेज करने के लिए बीपीवीजी (BPVG) स्विच का उपयोग करें। विजिलेस फुट स्विच पीवीसीडी (PVCD) को आइसोलेट कर दिया गया है और अब विजिलेस वार्निंग फुट स्विच पीवीसीडी (PVCD) से एक्क्रॉलेज नहीं की जा सकेगी।
- यदि किसी तकनीकी कारण से विजिलेस वार्निंग बीपीवीजी से एक्क्रॉलेज ना हो तो विजिलेस वार्निंग को एक्क्रॉलेज करने के लिए बीपीवीआर (BPVR) पुश बटन का उपयोग करें! बीपीवीआर (BPVR) स्विच में बीपीवीजी (BPVG) स्विच की भी सुविधा जोड़ दी गई है जिससे लोको पायलट विजिलेस वार्निंग को बीपीवीआर (BPVR) स्विच से भी एक्क्रॉलेज कर सकते हैं।

Loco Pilot Please Note

- To acknowledge the vigilance warning, mushroom head push-button switch (BPVG) has been provided in horizontal plane of Driver desk.
- Loco Pilots should use the mushroom head push-button switch (BPVG) to acknowledge the vigilance warning. The vigilance foot switch (PVCD) has been isolated and now vigilance warning cannot be acknowledged by the foot switch (PVCD).
- In case, due to any technical reason the vigilance warning is not acknowledged by BPVG, then use BPVR switch to acknowledge the vigilance warning. The facility of BPVG switch has also been added in BPVR switch, so that the Loco Pilots can acknowledge the vigilance warning through BPVR switch.

All Loco Pilot & ALPs are advised to adhere to the above instructions.

All CLIs are advised to counsel their nominated crews and obtain acknowledgment accordingly.

CENTRAL RAILWAY

NO: NGP/TRO/SAFETY/LP Inst/23

**DIVISIONAL OFFICE
TRO BRANCH, NAGPUR.**

Date: 18.06.2025

C/- CEE (OP)/CSMT : For kind information please.

C—DRM/NGP- For information please.

C—ADRM/(T)NGP- For information please.

C/- All CCCOR: For display and take acknowledgement from all running Staff.

C/- All CLI: For information & counseling LP & ALPs accordingly..

C/- DI/DTC : For necessary action.

C/- CTLC : For necessary action .


18/6/25
Sr.DEE (TRO)/NGP