Headquarters Office, Baroda House, New Delhi

Dated 28.05.2025

No. 45-RS/13 /Train Operation (e-24499)

Divisional Railway Manager, Northern Railway, JAT, FZR, UMB, DLI, MB & LKO.

Sub: Additional Precautions during Light Engine working.

There has been a SPAD case in UMB division on 13.05.2025 by the crew of Light engine who passed the Gate signal in Red position and hit a road vehicle. Therefore, divisions should counsel the crew to follow under mentioned precautions additionally while working light engine:

- 1. Locomotive brake application through SA-9 and A-9 should be checked before working a light engine. Light engine should not be worked by Crew/permitted by TLC in case brake application is not 100%.
- 2. To ensure the effectiveness of loco brakes, loco should not move on opening throttle with full application of the loco brakes with SA-9:
 - Conventional loco : Up to 650 A
 - Three phase locos : WAP-5 100KN
 - : WAP-7 & WAG-9 150KN
 - : WAG-12B 157KN
- 3. Loco brake (SA-9) should be used to control the speed of Light engine to stop well before the Red signal comfortably. On passing a signal at Yellow, crew should not apply A-9/RG/Dynamic brake.
- 4. Crew should control the speed of light engine strictly on the line of <u>LOADED FREIGHT</u> TRAINS while passing a signal at "Yellow".
- 5. Crew should work the Light engine as per speed defined by the divisions in different sections, if any.
- 6. In gradient sections, crew should be more attentive and functioning of RG/dynamic brake/Hand brake should be ensured while taking over charge of loco.
- 7. Crew should be categorically counsel on the exceptional aspects mentioned below:
 - i) Brake application in different class locomotives through synchronization is not uniform. Detail of same is enclosed herewith.
 - ii) Application of loco brake through synchronization does not take place if PVEF pedal switch is pressed by LP.
 - iii) RG/Dynamic brake gets disconnected on application of loco brakes with SA-9 or A-9.

(Naveen Kumar Agarwal) CEE/Operations

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Loco Brake Application

Traction	Type of Loco	SA-9 application BC Pressure	A-9 application BC Pressure	Remark
Electric	WAP-1	3.0 kg/cm ²	1.8 kg/cm ²	
	WAP-4	3.0 kg/cm ²	1.8 kg/cm ²	
	WAG-5	3.0 kg/cm ²	1.8 kg/cm ²	
	WAG-7	3.0 kg/cm ²	1.8 kg/cm ²	
	WAP-7	3.5 kg/cm ²	2.5 kg/cm ²	
	WAG-9	3.5 kg/cm ²	2.5 kg/cm ²	
	WAG-9H	3.5 kg/cm ²	2.5 kg/cm ²	ч.
	WAG-12	3.8 kg/cm ²	3.8 kg/cm²	If speed is <10 Kmph, BC pressure through A-9 will be 3.8 Kg/ cm ² If speed is >10 Kmph, SA-9 will not be applied through A-9 but RG will apply.
	WAP-5	5.0 kg/cm ²	5.0 kg/cm ²	Disc brake
Diesel	WDM-2	3.5 kg/cm ²	1.8 kg/cm ²	
	WDM-3A	3.5 kg/cm ²	1.8 kg/cm ²	
	WDP-1	3.5 kg/cm ²	1.8 kg/cm ²	
	WDP-3A	3.5 kg/cm ²	1.8 kg/cm ²	
	WDP-4B	5.1 kg/cm ²	1.8 kg/cm ²	
	WDP-4D	5.1 kg/cm ²	1.8 kg/cm ²	
	WDG-3A	3.5 kg/cm ²	1.8 kg/cm ²	
	WDG-4	5.1 kg/cm ²	1.8 kg/cm ²	
	WDG-4B	5.1 kg/cm ²	1.8 kg/cm ²	
	WDG-4D	5.1 kg/cm ²	1.8 kg/cm ²	
	WDG-4G	5.2 kg/cm ²	1.8 kg/cm ²	
	WDG-6G	5.2 kg/cm ²	1.8 kg/cm ²	