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MC/ACF/Fire Detection/AC

Date- 22.07.2021

Principal Chief Mechanical Engineers

1. मध्य रेलवे, छत्रपति शिवाजी टर्मिनस, मुम्बई - 400 001.	12. उत्तर मध्य रेलवे, हार्लिंग रोड, इलाहाबाद -211 001.
2. पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700 001.	13. उत्तर पश्चिम रेलवे, जयपुर - 302 006.
3. उत्तर रेलवे, बड़ौदा हाउस, नई दिल्ली - 110 001.	14. दक्षिण पश्चिम रेलवे, हुबली - 580 023.
4. दक्षिण रेलवे, पार्क टाउन, चेन्नई - 600 003.	15. पश्चिम मध्य रेलवे, जबलपुर - 482 001.
5. दक्षिण मध्य रेलवे, रेल निलायम, सिकन्दराबाद-500 071.	16. दक्षिण पूर्व मध्य रेलवे, आर ई आफिस काम्पलेक्स, बिलासपुर - 495 004.
6. दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता - 700 043.	17. इन्टीगरल कोच फैक्टरी, चेन्नई - 600 038.
7. पूर्वोत्तर रेलवे, गोरखपुर - 273 012.	18. रेल कोच फैक्टरी, हुसैनपुर, कपूरथला - 144 602.
8. पूर्वोत्तर सीमान्त रेलवे, मालीगाँव, गुवाहाटी - 781 011.	19. बी.ई.एम.एल., बेंगलूर काम्पलेक्स, न्यू थिप्पासान्द्रा, पोस्ट बाक्स न. 7501, बेंगलूर - 560 075.
9. पश्चिम रेलवे, चर्चगेट, मुम्बई - 400 020.	20. कोंकण रेलवे कार्पोरेशन लि., कार्पोरेट आफिस, बेलापुर भवन, नवी मुम्बई - 400 614.
10. पूर्व मध्य रेलवे, हाजीपुर - 844 101.	21. माडर्न कोच फैक्टरी रायबरेली -229206
11. पूर्व तटीय रेलवे, बीडीए रेंटल कालोनी, रेलवे काम्पलेक्स, चन्द्रशेखरपुरा, भुवनेश्वर, उड़ीसा - 751 016.	

Sub: Coach Alteration Instruction (CAI) for retro fitment/fitment of aspiration type Automatic Smoke/Fire Detection with Alarm System in IR AC coaches to RDSO spec no. RDSO/2008/CG-04(Rev-5).

Ref: Railway Board Letter No. 76/M(C)/137/31 Vol. V dated 01.04.2021.

Description:

Replacing of HASPs with aspiration type sampling point in lavatory area.

Reason of Alteration:

Due to two recent fire cases at NR while working vide Railway Board letter reference above, instructed RDSO to "revise the RDSO specification no. RDSO/2008/CG-04(Rev-5) for provision of aspiration type smoke detectors in lavatory area in place of HASPs (Heat Activated Sampling Points) stipulated at present and will issue revised specifications/work instruction further for retro fitment/fitment into AC coaches accordingly".

Alteration:

RDSO has accordingly initiated the process of amendment/revision of specification as per extant ISO procedure of RDSO to include the following:

Provision of aspiration type smoke detectors (sampling points, that which already provided in passenger compartment area) in lavatories in place of HASPs.

Zonal Railways/PUs may take necessary action for retro fitment into AC coaches for provision of aspiration type smoke detectors (sampling points) in lavatories in place of HASPs in consultation with Supplier/OEM.

It is also submitted that Zonal Railways/PUs may include the above requirements in their immediate procurements as an interim measure.

22/7/21

Procedure for providing aspiration type smoke detectors (sampling points, that which already provided in passenger compartment area) in lavatories in place of HASPs in consultation with Supplier/OEM.

1. Remove the Heat Activated Sampling Points (HASPs) from the all lavatory.
2. Provide the sampling point (similar to compartment area) into each lavatory.
3. Normalise the system ($F_n \pm 20\%$) after the sampling points fitted in all the lavatories.
4. Check the threshold values as per Proforma of testing given at Para 11.5 (Section-A) of RDSO specification no. RDSO/2008/CG-04(Rev-5) and ensure the proper functionality of the system.
5. Sticker Display of "NO SMOKING inside LAVATORY". Offender will be punished as per INDIAN RAILWAY ACT 1989.
6. During retro fitment work, minimum/zero interference with existing set up may be ensured for proper functioning of the system.

Coach Type:


All AC coaches fitted with automatic smoke/fire detection with alarm system as per RDSO specification no. RDSO/2008/CG-04.

Railways/Workshops are requested to submit the details of AC coaches upgraded as per above CAI in the following format at interval of 3 months:

S. No.	Total nos. of AC coach fitted with spec no. RDSO/2008/CG-04 till June-2021 (1)	Nos. of AC coaches undertaken for upgradation as per above CAI (2)				Total nos. of coaches upgraded as per above CAI in 2021-22 (3) = (i) + (ii) + ((iii) + (iv)
		1 st quarter (i)	2 nd quarter (ii)	3 rd quarter (iii)	4 th quarter (iv)	
1.		-	-			
2.	2022-23					

Above has the approval of Competent Authority.

DA: As above


(Brijesh Kumar Pandey)
Director/SS/Carriage

Copy to:

Chief Workshop Engineer

1.	Central Railway Matunga, Mumbai	10.	Southern Railway, Ashokapuram, Mysore
2.	Central Railway, Bhopal	11.	S. C. Railway Lallagudda, Secunderabad
3.	Eastern Railway, Lilluah, Hawrah	12.	S. C. Railway, Hubli
4.	Northern Railway Alambagh Lucknow	13.	S. C. Railway, Tirupati
5.	Northern Railway, Jagadhari	14.	S. E. Railway, Mancheswar, Bhubaneswar.
6.	N. E. Railway Gorakhpur	15.	S. E. Railway, Kharagpur
7.	N. F. Railway, New Bongaigaon	16.	Western Railway, Lower Parel, Mumbai
8.	Southern Railway, Chennai	17.	Western Railway, Ajmer, Rajasthan
9.	Southern Railway, Golden Rock, Trichy	18.	Eastern Railway, Kanchrupara, West bengal

DME/Chg. Railway Board, Rail Bhawan, New Delhi - for kind information please