



Maintenance Circular - 08/23

VERSION CONTROL SHEET

<u>Version No.</u>	<u>Remarks</u>	<u>Date of Issue</u>
1.0	New issue	28.12.2023
2.0	Revised to include additional Maintenance points	03.05.2024

Sub.: Maintenance Guidelines for Fire Alarm and Detection System audit inspection

Various makes of Fire Detection and alarm systems are being provided over NCR from RDSO approved sources. In view to ensure proper testing of systems and general audit of associated equipment, following guidelines is issued for compliance.




This audit inspection should necessarily be done **every Quarter** by SSE level.

Name of Station _____ Division _____

Date of Installation _____ Make of AFDAS System _____

Date of Inspection _____

Sr.No.	Description	EI/Relay room	IPS room/ Battery room	Remarks
1.	The condition of Electrical Power and S&T wirings.			
2.	Availability and functioning of fire Alarm system.			
2.1	Functioning to be verified using method specified by OEM.			
2.2	Availability of all sensors as per initial installation.			
2.3	All indications are working properly.			
2.4	Cleaning of sensors as specified by OEM is done and all are functional (May be done monthly if site conditions so require).			
2.4	Audio alarm and visual indication is proper			
2.5	Required parameters as specified by OEM are being checked at decided periodicity.			
2.6	If it is a networked system, alarms are available with SS/Dy.SS/ Gate lodge (as applicable).			

Prepared by	Checked By	Approved By	Date
 Amit Kumar JE/Sig	 H.N. Upadhyay ASTE/Sig	 P.K. Varma CSE/NCR	03.05.2024

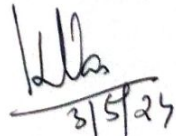


2.7	SMS through datalogger is available for alarms.			
3.	Checking all connections preferably by using thermal gun.			
4.	Temperature setting of AC of Relay Room			
5.	Availability of fire extinguishers at proper location.			
6.	Switching of Air conditioners at regular set interval to share equal load in the cycle of 24 hours.			
7.	Rating of 230V AC fuses/MCB's in Relay Room/IPS Room (Rating should not be more than 2times the max loads)			
8.	The MCB'S of 230V AC Elect. Supply for Relay Room should be clearly marked in the SM's room or wherever it is available.			
9.	Ensure surroundings of S&T Installations- Location boxes, Axle counter installations, Cable troughs, signal posts, JB's, Point machines etc. are free from vegetation and garbage. Dry bushes should be removed, if observed, on priority.			
10.	Electrical and S&T Earthing should be separate. Minimum separation must be as laid down in IRSEM.	-	-	

Signature of SSE/Sig or Telecom



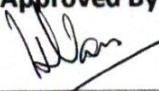
Signature of OEM Representative
(If being done during installation or warranty)

Suggestions for improvement/ additions may be forwarded to HQ.


31/5/24
(प्रशांत कुमार वर्मा)
मुख्य सिग्नल इंजीनियर
For PCSTE/NCR

NO: NCR/S&T/1078/Technical Circular/Pt-2

Date: 03.05.2024

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