

**Government of India
Ministry of Railways
Research Design & Standard Organisation
Manak Nagar, Lucknow – 226 011.**

NO-- EL\ 1.2.9.1.

Date – 31.7.2003

Modification Sheet No. ELRS/ MS /0327

Chief Electrical Engineer:

- All Indian Railways (As per mailing list attached)

Sr. Divisional Electrical Engineer/ TRS:

- Electric loco shed, East Central Rly. Mugalsarai. U.P – 232101
- Electric loco shed. North Central Rly, Fazalgang. Kanpur, -- 208003
- Electric loco shed. Western Rly, Tuglagabad. New Delhi- 110044.
- Electric loco shed, Ajni, (Nagpur). Central Railway. – 440008
- Electric Loco Shed, W.Rly, Vadodara

1.0 Title: LED indication on driver's desk to indicate tripping of Static Converter.

2.0 Object: The Static converter has inbuilt microprocessor based protection and diagnostic system with LED indication mounted on Static converter itself to display its ON/OFF status. Thus, presently driver gets indication of working of Static Converter unit through LSCHBA on driver's desk. This however is not considered as a direct indication as it may not come even in case of malfunctioning of battery charger. Therefore, a direct indication is proposed to be provided on driver desk to indicate status of SI unit.


3.0 Work to be carried out –

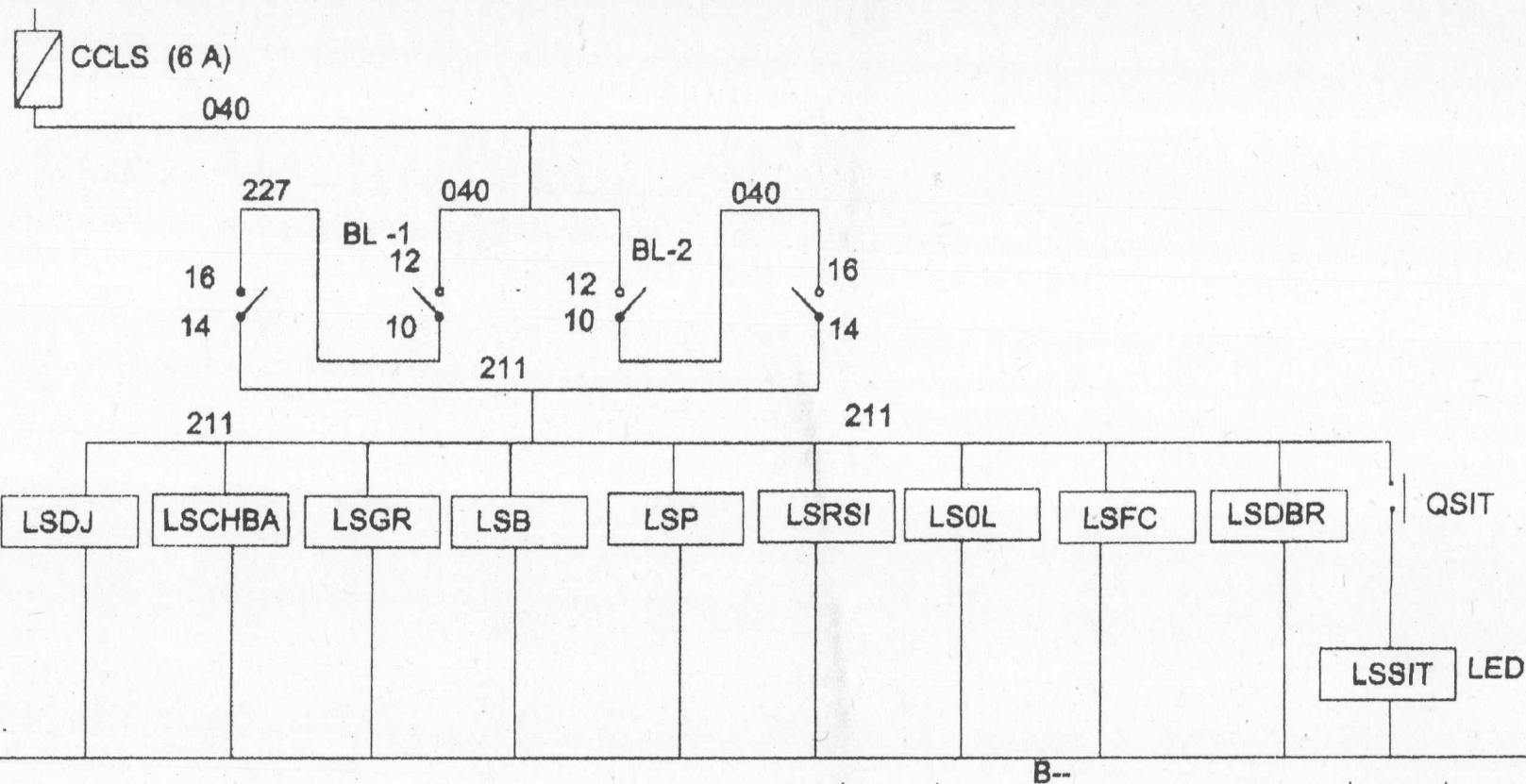
3.1 CLW has already cut in provision of 10-lamp signalling lamp box to CLW Drawing No.- CLW/ES/SK-2/L-24 since 2001-02 in place of earlier 8-lamp signalling lamp box. If this is provided, one number of LED lamp of Amber colour is available and be used and designated as LSSIT. If this is not provided, existing 8 lamp signalling lamp box be replaced with 10 lamp signalling lamp box.

3.2 QSIT relay has been provided in the locomotive with 04 NC and 04 NO contacts. One NO contact of this relay is to be used in series with supply to LSSIT as shown in enclosed RDSO Drawing No.SKEL-4674.

- 3.3 The wires/cables used for internal construction shall be of PTFE insulation.
- 4.0 **Application to class of locomotive** – All ac tap changer locomotives provided with Static Converter.
- 5.0 **Material required** –
- 5.1 Ten lamp signalling lamp box as per CLW Drg. CLW/ES/SK-2/L-24 , if not already available.
- 5.2 2.5 sq. mm 750 grade cable of required length.
- 5.3 Insulated cable lug suitable for 2.5 sq. mm cable in required quantity
- 6.0 **Material rendered surplus** – 8 lamp signalling lamp box, wherever used.
- 7.0 **Reference** : As suggested by Railways.
- 8.0 **New drawing** : SKEL – 4674
- 9.0 **Agency of Implementation**: All Electric loco sheds which are having locomotives provided with Static Converter, Electric Loco POH shop and Chittaranjan Locomotive Works / Chittaranjan.
- 10.0 **Distribution** :
- As per mailing list.

Enclosure : One Drg. bearing
Sr. No.SKEL-4674.


(S.S. Joshi)
for Director General Elect.
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REF. NO.	PART NO.	DESCRIPTION	NO/ LOCO	MATL.	LOCO
REF.		SCALE : NTS	APPD. BY:-	FOR DG	
LED INDICATION FOR TRIP STATUS OF STATIC CONVERTER			FIRST ISSUED JULY 2003		
			SUPERSEDS		
RDSO ELECT. DTE.			SKEL- 4674		
SUPERSEDED BY					

Dt	31.07.03
D	RDasgupta
C	SKSahu
F	EL/1.2.9.1

STATUS	ALT.	REF. NO.	DESCRIPTION	APPD.BY	DATE