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भारत सरकार - रेल मंत्रालय
अनुसंधान, डिजाइन और मानक संगठन
संस्थापक 220011
Government of India - Ministry of Railways
Research, Designs & Standards Organization,
LUCKNOW - 226011

सं० ईएल/11.5.5/4

मुख्य विद्युत अभियन्ता,

- 01 मध्य रेलवे, गुम्बई सीएसटी -400 001
- 02 उत्तर रेलवे, बडोदा हाऊस, नई दिल्ली-110 001
- 03 पूर्व मध्य रेलवे, हाजीपुर-044 101
- 04 दक्षिण मध्य रेलवे, रेल निलायम, सिकंदराबाद 500 371
- 05 पश्चिम मध्य रेलवे, जबलपुर-482 001
- 06 दक्षिण पूर्व मध्य, रेलवे, बिलासपुर-495 004
- 07 दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता-700 043
- 08 चितरंजन रेल इंजन कारखाना, चितरंजन-713 331

दिनांक: 08.06.2011
OA

विषय: संलग्न पत्र के अनुसार।

उपरोक्त विषय पर इस कार्यालय के समसंख्यक पत्र दिनांक 06.06.2011 की प्रति आवश्यक कार्यवाही हेतु इस पत्र के साथ संलग्न की जा रही है।

संलग्नक: यथोक्त

08/06/11
कृते महानिदेशक / विद्युत

जारी किया
शुभिवारी
04.6.11

OK

S.No 247

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भारत सरकार -- रेल मंत्रालय
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लखनऊ - 226011
Government of India - Ministry of
Railways Research, Designs & Standards
Organization, LUCKNOW - 226011

No. EL/11.5.5/4

Dated: 06.06.2011

Chief Electrical Engineer,

- Central Railway, 2nd floor, Parcel Office Building, Mumbai CST-400 001
- Northern Railway, Baroda House, New Delhi-110 001
- East Central Railway, HQs Office, Hajipur-844 101(Bihar)
- South Central Railway, Rail Nilayam, Secunderabad-500 071
- West Central Railway, Indra Market, Jabalpur-482 001
- South East Central Railway, Bilaspur-495 004
- South Eastern Railway, Garden Reach, Kolkata-700043
- Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

MODIFICATION SHEET No. RDSO/2011/EL/MS/0397(Rev. '0'), Dated: 06.06.2011

1.0 Title:

Modification in 3-phase electric locomotive to record message of VCD isolation status.

2.0 Object :

At present there is no provision of recording of message of VCD isolation in DDS in 3 phase locos. If loco pilot isolates the VCD and work the train without VCD in service, then with the help of DDS, status of VCD isolation cannot be ascertained. Therefore modification in 3-phase electric locomotives is required in software and electrical circuit so that in case loco pilot isolates the VCD, the isolation message of VCD should be recorded in the DDS .

3.0 Existing arrangement with cross references of respective design document :
As per Annexure -I

4.0 Modified arrangement to replace existing arrangement .

The isolation switch has to be connected to pin no.-10 of slot J connector in VCU-1 (Control Electronic) through SB-1 as per wiring shown at Annexure-II and modified software by CLW is to be loaded in STB-1 processor.

5.0 Application to class of locomotives : WAP5, WAP7, WAG9 and WAG9H

6.0 Material Required: Cable of 1.5 mm² - 0.5 mtr | e-beam cable as per spec no.
Cable of 0.5 mm² - 2.0 mtrs | CLW/ES/3/459

7.0 Material Rendered Surplus : Nil

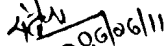
8.0 Reference: CLW letter no. C-D&D/T/09 dated 13.05.2011 and discussion in 3rd MSG held at West Central railway, Jabalpur on 28th & 29th April-2011.

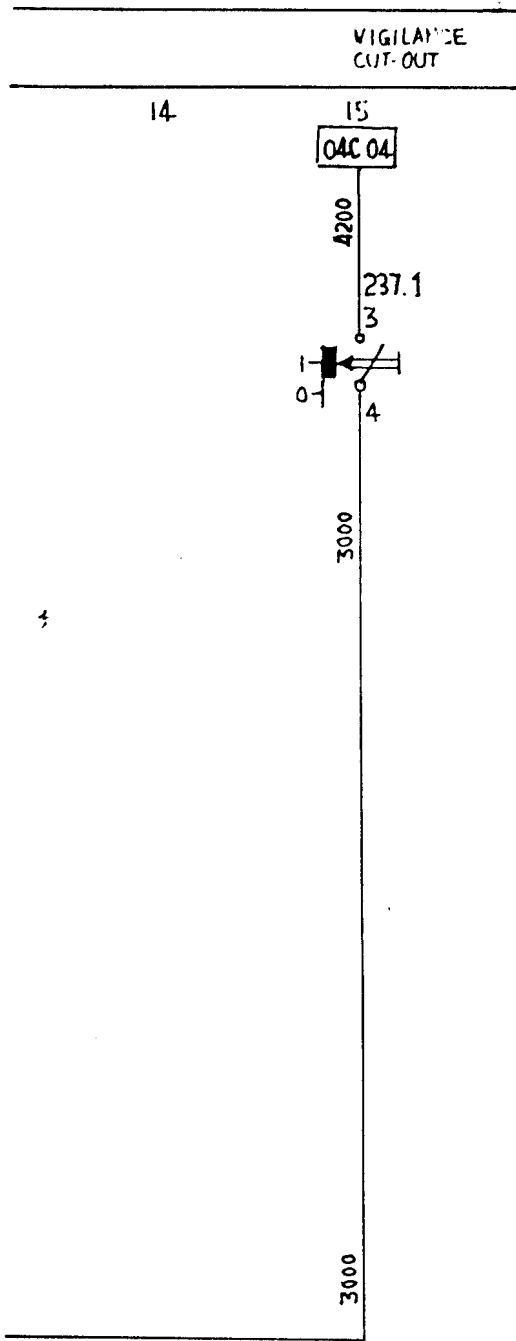
9.0 Modification Drawing : Nil

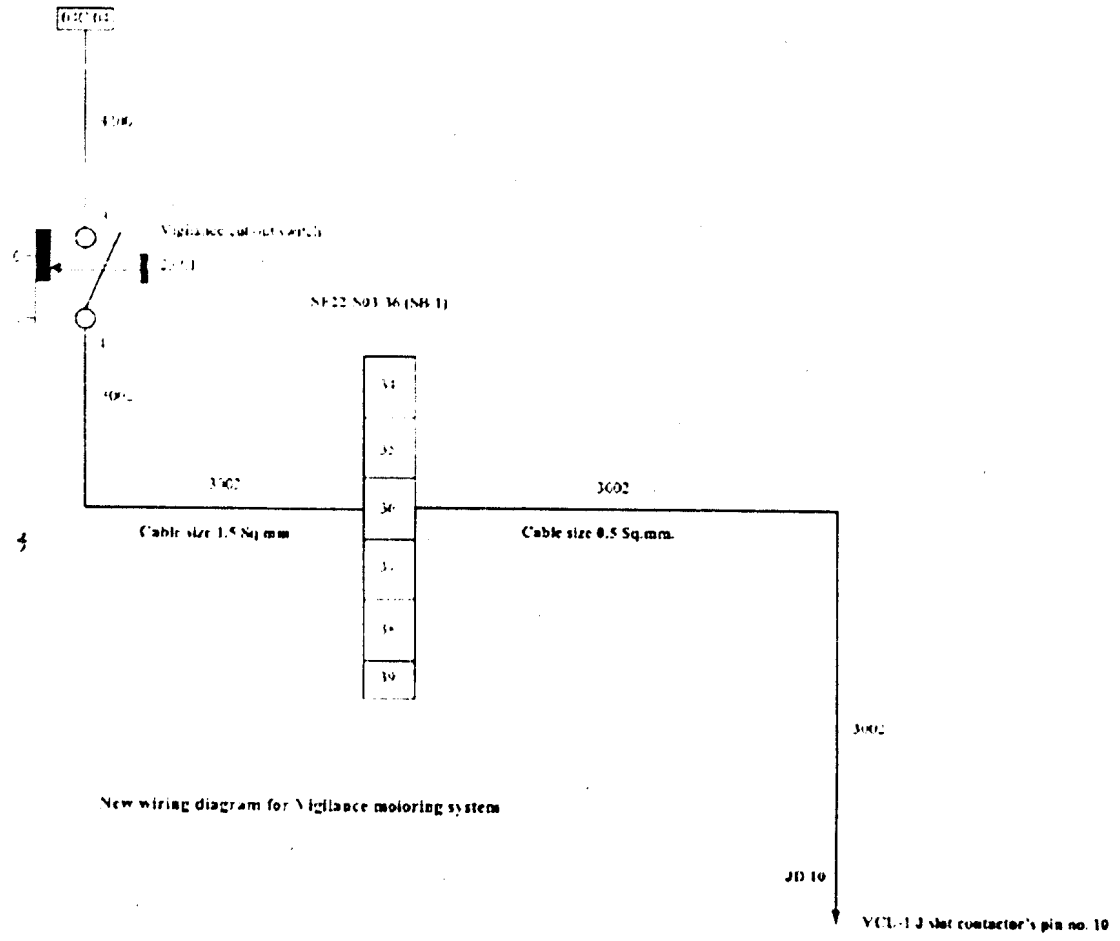
10.0 Agency of Implementation:

All electric loco sheds holding three phase electric locomotives in locomotives already homed at the sheds.

Encl: As above.


(Sandeep Srivastava)
For Director General (Elect.)





Modified wiring diagram

SM-260

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Government of India - Ministry of Railways
Research, Designs & Standards Organization,
LUCKNOW - 226011

सं० ईएल/11.5.5/4

दिनांक: 19.09.2011

मुख्य विद्युत अभियन्ता,

- मध्य रेलवे, मुम्बई सीएसटी -400 001
- उत्तर रेलवे, बड़ोदा हाऊस, नई दिल्ली-110 001
- पूर्व मध्य रेलवे, हाजीपुर-844 101
- दक्षिण मध्य रेलवे, रेल निलायम, सिकंदराबाद-500 371
- पश्चिम रेलवे, चर्चगेट, मुम्बई-400 020
- दक्षिण पूर्व मध्य, रेलवे, विलासपुर-495 004
- दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता-700 043
- चितरंजन लोकोमोटिव वर्क्स, चितरंजन-713331

विषय: Amendment no. 01 to modification sheet no.
RDSO/2011/EL/MS/0397

उपरोक्त विषय पर इस कार्यालय के समसंख्यक पत्र दिनांक 12.09.2011 की प्रति आवश्यक कार्यवाही हेतु इस पत्र के साथ संलग्न की जा रही है ।

संलग्नक: यथावत्

कृते महानिदेशक / विद्युत

प्रतिलिपि :-

सचिव

रेलवे बोर्ड

रेलमवन, नईदिल्ली-110001

संलग्नक: यथावत्

कृते महानिदेशक / विद्युत

सचिव

रेलवे बोर्ड

20.09.11

0/c

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भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226011
Government of India - Ministry of
Railways
Research, Designs & Standards
Organization, LUCKNOW - 226011

No. EL/11.5.5/4

Date: 12.09.2011

Chief Electrical Engineer,

- Central Railway, Mumbai CST-400001
- Northern Railway, Baroda House, New Delhi-110 001
- East Central Railway, HQs Office, Hajipur-844 101(Bihar)
- South Central Railway, Rail Nilayam, Secunderabad-500 071
- West Central Railway, opposite Indira Market, Jabalpur-482001
- South East Central Railway, Bilaspur-495004.
- South Eastern Railway, Garden Reach, Kolkata-700043.
- Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

Sub: - Amendment no. 1 of Modification Sheet no. RDSO/2011/EL/MS/0397
(Rev-0) dated 06.07.2011.

Ref: - (i) This office letter of even no. dated 06.06.2011
(ii) CLW's letter no. C-D7D/T/11 dated 08.08.2011

The modification sheet no. RDSO/2011/EL/MS/0397 (Rev-0) dated 06.07.2011 for recording of message of VCD isolation in DDS of 3-phase electric locomotives issued vide ref.(i) has been amended with modification in earlier wiring arrangement. The 'Amendment No.-1' for MS no. RDSO/2011/EL/MS/0397 (Rev-0) is attached with this letter for information and necessary action please.

Encl: As above

(Signature)
(Sandeep Srivastava)
For Director General (Elect.)

Copy to:-

Secretary (Elect), Railway Board, Rail Bhavan, New Delhi-110 001

Encl: As above

(Signature)
(Sandeep Srivastava)
For Director General (Elect.)

OL

Government of India
Ministry of Railways
Research, Designs & Standards Organization,
Manak Nagar, LUCKNOW – 226011

EL/11.5.5/4

Dt. 12.09.2011

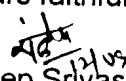
Amendment No: -1

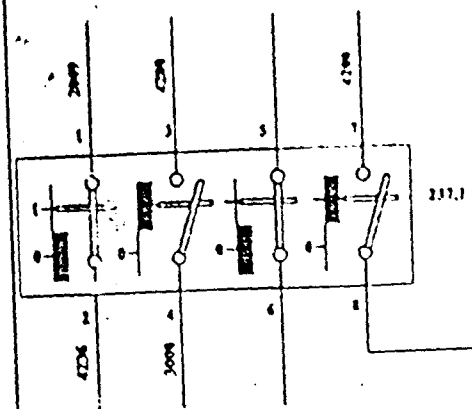
Sub: - Amendment no. 1 of Modification Sheet no. RDSO/2011/EL/MS/0397
(Rev-0) dated 06.07.2011.

Sn	Amendment	
	Existing arrangement	Modified arrangement
1	Wiring diagram As per Annexure-II Terminal no. 4 of rotary switch 237.1 is connected to terminal no.36 of SB-1	1. As per CLW drawing no. C-D&D/E/ Vig.001(Page-1) 2. An additional link is to be provided from MCB 127.15 to 237.1 terminal no. - 7 as shown in drawing no. C-D&D/E/ Vig.001(Page-2)

The modified arrangement is enclosed as annexure

Encl: As above

Yours faithfully

(Sandeep Srivastava)
For Director General (Elect.)



36 XF-22F-03(SB-1)

3006.1
1.55sq. mm cable

3006.1

411-JD-10.

0.55sq. mm cable

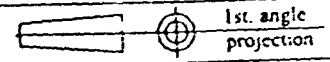
DESCRIPTION

Modified wiring diagram for VCD circuit

Wiring diagram for modified VCD circuit

DRWN
SSE/D&D
AEE/D&D
JE/D&D

WAG-9/ WAP-5/WAP-7
3 Phase Drive Locomotives



Approved by
Dy.CEE/CON/II-II

CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL, INDIA.

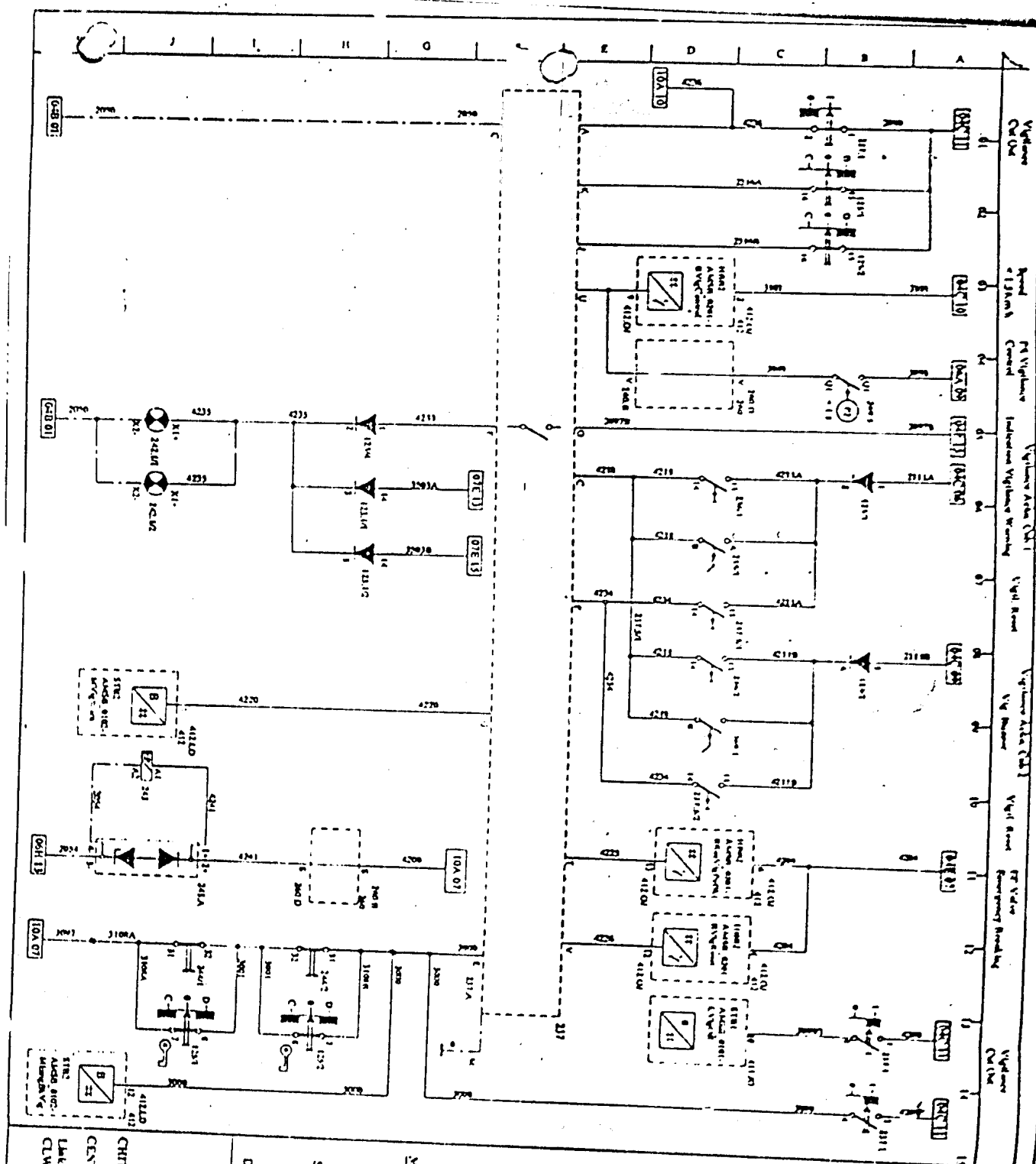
ABB Drg. no. 3EHP281151, Rev-D
CLW.Drg. no. C-D&D/EN/ig. 001

Connect with schematic 11A

Date:- 08th August, 2011



CENTRE FOR
DESIGN AND DEVELOPMENT
CLW/CHITTARANJAN



Number	Function Description	No. Typed
111	Blanking Dial	34C
112	Blanking Dial Illumination T14	34C
113	Chk emergency stop for A, B, C	34B
114	Interlocking lamp for A, B, C	34B
115	Push button Wylance control, RWV	34B
116	Wylance control equipment	34B
117	Emergency stop for A, B, C	34B
118	Push button Wylance control, RWV	34B
119	Wylance control equipment	34B
120	Emergency stop for A, B, C	34B
121	Push button Wylance control, RWV	34B
122	Wylance control equipment	34B
123	Emergency stop for A, B, C	34B
124	Push button Wylance control, RWV	34B
125	Wylance control equipment	34B
126	Emergency stop for A, B, C	34B
127	Push button Wylance control, RWV	34B
128	Wylance control equipment	34B
129	Emergency stop for A, B, C	34B
130	Push button Wylance control, RWV	34B
131	Wylance control equipment	34B
132	Emergency stop for A, B, C	34B
133	Push button Wylance control, RWV	34B
134	Wylance control equipment	34B
135	Emergency stop for A, B, C	34B
136	Push button Wylance control, RWV	34B
137	Wylance control equipment	34B
138	Emergency stop for A, B, C	34B
139	Push button Wylance control, RWV	34B
140	Wylance control equipment	34B
141	Emergency stop for A, B, C	34B
142	Push button Wylance control, RWV	34B
143	Wylance control equipment	34B
144	Emergency stop for A, B, C	34B
145	Push button Wylance control, RWV	34B
146	Wylance control equipment	34B
147	Emergency stop for A, B, C	34B
148	Push button Wylance control, RWV	34B
149	Wylance control equipment	34B
150	Emergency stop for A, B, C	34B

Modified schematic for Wylance control driver

Approved
SSE/DAD 6/2/11

D. CECON/TU/H



CHITTARANJAN LOCOMOTIVE WORKS
Chittaranjan
CENTRE FOR DESIGN AND DEVELOPMENT
Unit with ABE etc. No. JEH1211511 Rev.D
CLW-DRG. No. C-04-007/REV. 001