



भारत सरकार - रेल मंत्रालय
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Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow - 226 011
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No. CT/USFD/ACS

Dated: 04.05.2023

**Principal Chief Engineer
Chief Administrative Officer (Cons) & All concerned
(As per mailing list enclosed)**

Sub: Manual for ultrasonic testing of rails and welds (Revised 2022) - Addendum and Corrigendum slip no.1 of May, 2023

Ref: This office letter no. CT/USFD dated 29.04.2022

1. The "Manual for ultrasonic testing of rails and welds, (Revised 2022)" was circulated to all Zonal Railways vide this office letter at reference above.
2. Vide Agenda item no. 1.2 "Action to be taken in case of detection of DFWN" was discussed and deliberated in CTEs' Seminar held at IRICEN/Pune on 07th to 8th April-2022. Forum recommended that Board may give intervening period for removal of DFWN and the marking as being done on NCR i.e. two stars with N marked for DFWN may be approved by Railway Board for uniform adoption by all.
3. Further, Railway Board's order on recommendations of above CTEs' Seminar (Agenda item no. 1.2) issued vide letter no. 2022/CE-II/TK/CTES/22302 dated 19.01.2023, have been incorporated in Para 8.10.1 & Foot note of Para 8.14 of USFD Manual through ACS. Please find enclosed herewith Addendum and Corrigendum slip no. 1 of May, 2023 to the above Manual for information and further necessary action.

Enclosure: As above

ASAD
MUSTAFA
RIZVI
(Asad M. Rizvi)
Executive Director/Track-I

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ASAD MUSTAFA RIZVI
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Mailing list

I. Principal Chief Engineer

1. Central Railway, Mumbai CST – 400001
2. Eastern Railway, Fairlie Place, Kolkata – 700001
3. Northern Railway, Baroda House, New Delhi – 110001
4. N.E. Railway, Gorakhpur – 273012
5. Southern Railway, Park Town, Chennai – 600003
6. S.C. Railway, Rail Nilayam, Secunderabad – 500371
7. Western Railway, Churchgate, Mumbai – 400020
8. South Eastern Railway, Garden Reach, Kolkata – 700043
9. N.F. Railway, Maligaon, Guwahati – 781011
10. East Central Railway, Hajipur – 844101
11. East Coast Railway, Bhubaneswar – 364001
12. North Central Railway, HQ Office, Subedarganj, Block – Bhagirathi, Prayagraj – 211015
13. North Western Railway, Jaipur – 755001
14. South East Central Railway, Bilaspur – 495004
15. South Western Railway, Hubli – 580023
16. West Central Railway, Jabalpur – 482001

II. Chief Administrative Officer (Cons)

1. Central Railway, New Administrative Office Building, 6th Floor, D.N. Road, Mumbai CST – 400001
2. CAO (I), Eastern Railway, 4th Floor, New Koilaghat Building, Strand Road, Kolkata – 700001
3. CAO (II), Eastern Railway, 4th Floor, New Koilaghat Building, Strand Road, Kolkata – 70000
4. Northern Railway, Kashmere Gate, Delhi – 110001
5. USBRL Project, Opp. R.R.B. Jammu Tawi – 180013
6. North Eastern Railway, Gorakhpur – 273012
7. Southern Railway, Egmore, Chennai – 600003
8. West Central Railway, Jabalpur – 482001
9. South Western Railway, 18, Millar Road, Bangalore – 560046
10. South Central Railway, Rail Nilayam, Secunderabad – 500371
11. South Eastern Railway, Garden Reach, Kolkata – 700043
12. East Coast Railway, Chandrashekharpur, Bhubaneswar – 751023
13. Western Railway, Churchgate – 400020
14. CAO (North), East Central Railway, Mahendrughat, Patna - 800004
15. CAO (South), East Central Railway, Mahendrughat, Patna - 800004
16. North Western Railway, Near Railway Station, Jaipur – 302001
17. South East Central Railway, Bilaspur – 495004 (Chhattisgarh)
18. North Central Railway, HQ Office, Subedarganj, Block – Bhagirathi, Prayagraj – 211015
19. CAO (I), N.F. Railway, Guwahati – 781001
20. CAO (II), N.F. Railway, Guwahati – 781001
21. CAO (III), N.F. Railway, Guwahati – 781001

III. PEDs/EDs of Railway Board and RDSO

1. Principal Executive Director/CE (P), Railway Board, Rail Bhawan, New Delhi – 110001
2. Executive Director, Track (M & MC), Railway Board, Rail Bhawan, New Delhi – 110001
3. Executive Director/Track-II, RDSO, Lucknow
4. Executive Director/M&C, RDSO, Lucknow.

IV. Chairman-cum-Managing Directors

1. The General Manager (Cons.), N.F. Railway, Maligaon, Guwahati-781 011.
2. The Chief Commissioner of Railway Safety, Ministry of Tourism & Civil Aviation, New Rly Compound, 16-A, Ashok Marg, Lucknow 260 001.
3. Metro Railways, Metro Bhawan , 33/1 Chowringhee Road, Kolkata-700071
4. The CMD, Managing Director, KRCL, Belapur Bhawan, Plot No.6, CBD, Belapur, New Bombay-400 614.
5. The Director General, Railway Staff College, Vadodara-390 004.
6. The Director, IRICEN, Pune- 411 001.
7. The Executive Director, IRCAMTECH, Maharajpur Gwalior-474 020

V. The Chief Safety Officer:

1. Central Railway, CST, Mumbai – 400 001.
2. Eastern Railway, Fairlie Place, Calcutta – 700 001.
3. East Central Railway, Hajipur – 844 101.
4. East Coast Railway, Chandrasekharpur, Bhubaneswar – 751 016.
5. Northern Railway, Baroda House, New Delhi – 110 001.
6. North Central Railway, Allahabad - 211 001.
7. N.E. Railway, Gorakhpur - 273 001.
8. N.F. Railway, Maligaon, Guwahati – 781 011.
9. North Western Railway, Jaipur – 302 001.
10. Southern Railway, Park Town, Chennai – 600 003.
11. S.C.Railway, Rail Nilayam, Secunderabad – 500 371.
12. S.E. Railway, Garden Reach, Calcutta – 700 043.
13. South East Central Railway, Bilaspur 495 004
14. South Western Railway, Hubli– 580 023.
15. Western Railway, Churchgate, Mumbai – 400 020
16. West Central Railway, Jabalpur – 482 001.

**‘MANUAL FOR ULTRASONIC TESTING OF RAILS AND WELDS, (Revised-2022)’
ADDENDUM AND CORRIGENDUM SLIP No. 1 Dated 04.05.2023**

1. Para 8.10.1 shall be replaced as under:

8.10.1 The defective joints (DFWN) based on the criteria mentioned in preceding paras and para 8.12.3 shall not be allowed to remain in service and shall be removed within a period of 1 month after initial USFD testing of AT welds. The protection of defective joints (DFWN) shall be ensured by joggled fish plate with two tight clamps immediately along with proper support on wooden block till its removal. During Subsequent testing within the guarantee period of contract defective joints (DFWO or DFWR) shall be cropped, re-welded and tested again. The re-welded joints shall be scanned ultrasonically again with the same set of acceptance criteria to ensure freedom from any harmful defects.

2. Foot note below the table of Para 8.14 shall be replaced as under:

Note: In case of defective joints (DFWN), two stars with N is to be marked by painting on both faces of weld in head with red paint. DFWN found in “Initial Acceptance Test” shall be removed from track as per para 8.10.1.

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