

SECTION 5 - DEFECT DETECTION SYSTEMS

<u>Part</u>	<u>C</u>	<u>Type & Subject</u>	<u>Pages</u>	<u>Status</u>
<u>5.1 Recommended Defect Detection Systems</u>				
5.1.1	38-1	Recommended Design Criteria and Functional/Operating Guidelines for a Dragging Equipment Detector	3	Revised 2015
5.1.12	38-1	Recommended Design Criteria for Rock Fall and Slide Detectors	6	Reaffirmed 2015
5.1.13	38-1	Recommended Design Criteria for Ballast Integrity Detectors	2	Revised 2018
5.1.20	38-1	Recommended Functional/Operating Guidelines for a High, Wide Load Detector	3	Reaffirmed 2015
5.1.25	38-1	Recommended Functional/Operating Guidelines for a Flat Wheel Detector	3	Reaffirmed 2016
5.1.30	38-1	Specification for Hot-Bearing Detection Systems	22	Revised 2018
5.1.35	38-1	Recommended Functional/Operating Guidelines for a Hot/Cold Wheel Detector	3	Revised 2015
5.1.40	38-1	Recommended Functional/Operating Guidelines for an Automatic Wayside Wheel Crack Detector	3	Reaffirmed 2018
5.1.45	38-1	Recommended Functional/Operating Guidelines for a Fail Safe Car Detector System Without Track Circuits	2	Reaffirmed 2013

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<u>Part</u>	<u>C</u>	<u>Type & Subject</u>	<u>Pages</u>	<u>Status</u>
5.1.47	38-1	Recommended Functional/ Operating Guidelines for a Non-Vital Car Detection System Using Inductive Loop Proximity Detectors	5	Revised 2013
5.1.50	38-1	Recommended Functional/ Operating Guidelines for a Rail or Tie Mounted Wheel Detector	3	Reaffirmed 2018
5.1.55	38-1	Recommended Design Criteria of Fire Detection Systems for Bridges and Structures	4	New 2015
<u>5.3 Recommended Instructions</u>				
5.3.1	38-1	Recommended Instructions for Hot-Bearing Detector Site Selection	3	Reaffirmed 2015
5.3.2	38-1	Recommended Instructions for Automatic Equipment Identification (AEI) System Site Configuration and Selection	3	Revised 2016
5.3.3	38-1	Recommended Instructions for Hot/Cold- Wheel Detector Site Selection	5	New 2016
5.3.10	38-1	Recommended Instructions for Inspection and Test of Wayside Inspection Systems	5	Revised 2018
5.3.11	38-1	Recommended Instructions for Inspection and Test of Wayside Inspection Systems Hot Bearing Detection System, Including Hot Journal, Hot Wheel, Cold Wheel and Dragging Equipment Detectors	15	Revised 2018

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<u>Part</u>	<u>C</u>	<u>Type & Subject</u>	<u>Pages</u>	<u>Status</u>
5.3.12	38-1	Recommended Instructions for Inspection and Test of Automatic Equipment Identification (AEI) Reader Systems	8	Revised 2019

5.4 Recommended Cross References

Refer to the American Railway Engineering and Maintenance of Way Association (AREMA) Manual for Railway Engineering, Chapter 16-Economics of Railway Engineering and Operations, Part 5-Economics and Location of Defect Detector Systems.