

SECTION 11 - CIRCUIT PROTECTION

<u>Part</u>	<u>C</u>	<u>Type & Subject</u>	<u>Pages</u>	<u>Status</u>
<u>11.1 Electrical Safety Recommendations</u>				
11.1.1	38-2	Recommended Functional/Operating Guidelines for Electrical Safety	3	Reaffirmed 2018
11.1.5	38-2	Recommended Guidelines for the Application of the National Electrical Safety Code (NESC), the National Electrical Code (NEC) and the Canadian Electrical Code (CEC) to Railroad Signal and Communication Facilities	3	Revised 2018
<u>11.2 Recommended Practices</u>				
11.2.1	38-2	Recommended General Practices for Electrical Surge Protection of Signal Systems	4	Revised 2018
11.2.2	38-2	Recommended Guidelines for Signal Enclosure Layout, Component Placement and General Wiring Strategies for Surge Damage Prevention	3	Reaffirmed 2012
<u>11.3 Recommended Grounding, Lightning & Surge Protection, Fusing</u>				
11.3.1	38-2	Recommended Design Criteria and Functional/Operating Guidelines for Air Gap Type Primary Surge Protectors for Electrical Surge Protection of Signal Systems	6	Revised 2018
11.3.2	38-2	Recommended Design Criteria and Functional/Operating Guidelines for Secondary Surge Protectors for Electrical Surge Protection of Signal Systems	4	Revised 2018

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11.3.3	38-2	Recommended Design Criteria for Surge Withstand Capability of Electronic Signal Equipment for Signal Systems	3	Reaffirmed 2012
11.3.4	38-2	Recommended Design Criteria for Copper Clad Steel Ground Rods and Connections for Signal Systems	3	Revised 2019
11.3.5	38-2	Recommended Design Criteria for Chemically Enhanced Ground Electrode Systems for Signal Systems	3	Reaffirmed 2012
11.3.6	38-2	Recommended Design Criteria and Function of Solid State AC Primary Surge Protective Devices (SPDs) for Communication and Signal Systems	3	Reaffirmed 2016
11.3.10	38-2	Purpose and Meaning of Terms Used in Surge Protection and Grounding	9	Reaffirmed 2018
<u>11.4 Recommended Instructions</u>				
11.4.1	38-2	Recommended Instructions for Made Grounds for Signal Systems Utilizing Earth Electrodes	5	Revised 2019
11.4.2	38-2	Recommended Instructions for Application of Electrical Surge Protection for Signal Systems	5	Revised 2017
11.4.5	38-2	Recommended Instructions for Protecting Electronic Equipment Modules and Sensitive Components from Electrostatic Discharge (ESD) for Field Locations	3	Reaffirmed 2013

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<u>Part</u>	<u>C</u>	<u>Type & Subject</u>	<u>Pages</u>	<u>Status</u>
<u>11.5 Environmental Recommendations</u>				
11.5.1	38-2	Recommended Environmental Requirements for Electrical and Electronic Railroad Signal System Equipment	11	Revised 2016
11.5.2	38-2	Recommended Electromagnetic Compatibility Immunity and Emissions Testing for Signaling Products	10	New 2013