

GP 15-06-02	Environmental Protection for Instrumentation	July 2001
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Environmental Protection for Instrumentation

GP 15-06-02

Scope

[I] This Global Practice (GP) covers environmental conditions for control house and field measurement and control devices.

[I] An asterisk (*) indicates that a decision by the Owner's Engineer is required, that additional information is to be furnished by the Owner's Engineer, or that information for approval by the Owner's Engineer is to be supplied by Vendor or Contractor.

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GP 15-06-02	Environmental Protection for Instrumentation	July 2001
-------------	--	-----------

Table of Contents

1. Required References	3
1.1. Global Practices–ExxonMobil Engineering Practices	3
1.2. CENELEC–European Commission for Electrotechnical Standardization	3
1.3. IEC–International Electrotechnical Commission	3
1.4. IEEE–Institute of Electrical and Electronics Engineers	4
1.5. ISA–Instrumentation, Systems, and Automation Society	4
2. Additional Requirements	4
2.1. Global Practices–ExxonMobil Engineering Practices	4
2.2. CENELEC–European Commission for Electrotechnical Standardization	4
2.3. IEC–International Electrotechnical Commission	4
2.4. NEMA–National Electrical Manufacturers Association	4
3. Design	5
Record of Change	9
Attachment: Purpose Codes Definitions	10

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Page 2 of 10	©ExxonMobil Development Company	 Documents Document Sharing Hub

GP 15-06-02	Environmental Protection for Instrumentation	July 2001
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1. Required References

[I] This Section lists Practices and Standards that are generically referenced and assumed to be a part of this document. Unless otherwise specified herein, use the latest edition.

1.1. Global Practices–ExxonMobil Engineering Practices

GP 16-01-03	Protection of Electrical Equipment in Contaminated Environments
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1.2. CENELEC–European Commission for Electrotechnical Standardization

CENELEC EN 50081-2	Electromagnetic Compatibility - Generic Emission Standard Part 2: Industrial Environment
CENELEC EN 50082-2	Electromagnetic Compatibility Generic Immunity Standard Part 2: Industrial Environment
CENELEC ENV 50141	Electromagnetic Compatibility - Basic Immunity Standard - Conducted Disturbances Induced by Radio- Frequency Fields - Immunity Test

1.3. IEC–International Electrotechnical Commission

IEC 60068-2-27	Basic Environmental Testing Procedures Part 2: Tests - Test Ea and Guidance: Shock
IEC 60068-2-31	Basic Environmental Testing Procedures Part 2: Tests - Test Ec: Drop and Topple, Primarily for Equipment- Type Specimens
IEC 60068-2-6	Environmental Testing - Part 2: Tests - Test FC: Vibration (Sinusoidal)
IEC 60068-2-64	Environmental Testing Part 2: Test Methods Test Fh: Vibration, Broad-Band Random (Digital Control) and Guidance
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)
IEC 61000-4-2	Electromagnetic Compatibility (EMC) - Part 4-2: Testing and Measurement Techniques - Electrostatic Discharge Immunity Test
IEC 61000-4-3	Electromagnetic Compatibility (EMC) - Part 4-3: Testing and Measurement Techniques - Radiated, Radio-Frequency, Electromagnetic Field Immunity Test
IEC 61000-4-4	Electromagnetic Compatibility (EMC) - Part 4-4: Testing and Measurement Techniques - Electrical Fast Transient/Burst Immunity Test
IEC 61000-4-5	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and Measurement Techniques - Surge Immunity Test

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Page 3 of 10	©ExxonMobil Development Company	



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