

GP 15-07-01	Electric Power Branch Circuit Design for Instrumentation	February 2002
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Electric Power Branch Circuit Design for Instrumentation

GP 15-07-01

Scope

- 1) [I] This Global Practice (GP) covers the design and protection of instrument power branch circuits from the electrical power distribution panel (or transfer switch panel) of [GP 16-08-01](#) to the instrument loads (e.g., individual instrument components, the power supplies of instrument systems, and the power sub-distribution and protection within instrument panels, consoles, and systems).
 - 2) [I] This GP does not cover electrical power distribution panels, transfer switches, and associated circuit protection included in [GP 16-08-01](#).
 - 3) [I] An asterisk (*) indicates that either a decision by Owner's Engineer or Purchaser is required, that additional information is to be furnished by Owner's Engineer, or that information for Owner's Engineer approval is to be supplied by Vendor or Purchaser.
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1. Required References

[I] This Section lists Practices 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 14-03-01	Fireproofing
GP 15-06-02	Environmental Protection for Instrumentation
GP 15-10-01	Instrument Transmission Systems
GP 16-01-01	Area Classification and Related Electrical Design for Flammable Liquids, Gases or Vapors
GP 16-03-01	Wiring Methods and Material Selection
GP 16-04-01	Grounding and Overvoltage Protection
GP 16-08-01	Instrument and Essential Services Power Supplies

2. Additional Requirements

* [I] The following Practices and Standards shall be used with this Practice as specified by Owner's Engineer.

2.1. Global Practices–ExxonMobil Engineering Practices

GP 15-06-03	Programmable Logic Controllers
GP 15-07-02	Protective Systems
GP 15-07-03	Alarm Systems
GP 15-09-02	Electric Motor Operators for Valves
GP 15-11-01	Instrument Control Panels

2.2. CSA–Canadian Standards Association

CSA C22.1-02	Canadian Electrical Code Part I; Safety Standard for Electrical Installations
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2.3. NFPA–National Fire Protection Association

NFPA 70	National Electrical Code
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