

PLATFORM ELECTRICAL SYSTEMS GUIDELINES

(Last update February 2004)

Note: Refer to Appendix 20 for all Electrical System PINC's and associated definitions.

CLASSIFIED AREAS

(Last update February 2004)

F-101

HAS THE LESSEE SUBMITTED A PLAN CLASSIFYING ALL HAZARDOUS AREAS?

Authority: 114

Enforcement Action: W

802(e)(4)

Note: The Area Classification drawings should include the Class, Divisions (Zones), gas(s), vapor(s) or gas group(s), and Maximum Safe Operating Temperature or temperature range of electrical equipment permissible at the location.

INSPECTION PROCEDURE

Verify that area classification drawings are available, current, and cover all parts and levels of the facility in accordance with API RP 500 (Traditional Division System) and API RP 505 (Zone System).

IF NONCOMPLIANCE EXISTS:

Issue a warning (W) INC if area classification drawings are not available, current, and cover all platform decks on the facility.

INSPECTION FORM:

Enter one item checked for each facility inspected.

F-104

ARE LIGHTING FIXTURES INSTALLED IN CLASSIFIED LOCATIONS SUITABLE FOR THE PARTICULAR LOCATION AND PROTECTED FROM DAMAGE IN ACCORDANCE WITH API RP 14F, PARAGRAPHS 9.3.3.3 AND 9.3.3.6, OR API RP 14FZ, PARAGRAPHS 9.3.3.3 AND 9.3.3.6?

Authority: 114

Enforcement Action: C

198

INSPECTION PROCEDURE

Verify that:

1. Lighting fixtures (including ballasts) installed and used in classified areas (Divisions and Zones) are explosion proof or flameproof.
2. Lighting fixtures are properly protected from physical damage by guards or by location.

IF NONCOMPLIANCE EXISTS:

Issue a component shut-in (C) INC if explosion proof lighting fixtures are not used in classified areas and not protected from physical damage by guards or by location.

INSPECTION FORM:

Enter one item checked for each facility inspected.

F-105

ARE PORTABLE ELECTRONIC DEVICES (PED'S) AND ELECTRICAL TOOLS USED IN CLASSIFIED LOCATIONS SUITABLE FOR THE LOCATION, OR USED IN CONJUNCTION WITH A HOT WORK PERMIT, IN ACCORDANCE WITH API RP 14F, PARAGRAPH 12.3, 12.9, OR API RP 14FZ, PARAGRAPH 12.3, 12.4?

**Authority: 114
198**

Enforcement Action: C

INSPECTION PROCEDURE

Verify that PED's and electrical tools (e.g., pagers, cell phones, drills, cameras, gas detectors, video equipment, and radios) used in classified areas are suitable for the location or are used in conjunction with an authorized "hot work permit."

IF NONCOMPLIANCE EXISTS:

Issue a component shut-in (C) INC if the PED's or electrical tools are not used in conjunction with a hot work permit or are not certified for use in classified locations by a third party testing laboratory.

INSPECTION FORM:

Enter one item checked for each facility inspected.

F-106

DO PORTABLE ELECTRICAL TOOLS HAVE WARNING LABELS CERTIFYING THEIR USE IN CLASS I, GROUP D LOCATIONS OR ARE THEY PERMANENTLY LABELED "WARNING SOURCE OF IGNITION WHEN IN USE," IN ACCORDANCE WITH API RP 14F, PARAGRAPH 12.3.4, OR API RP 14FZ, PARAGRAPH 12.3.4?

**Authority: 114
198**

Enforcement Action: C

INSPECTION PROCEDURE

Verify that portable electric tools:

1. Used in Class I, Group D locations are permanently labeled certifying their use is approved for these locations.
2. That do not have warning labels certifying their use in hazardous locations are permanently labeled "WARNING – SOURCE OF IGNITION WHEN IN USE".

IF NONCOMPLIANCE EXISTS:

Issue a component shut-in (C) INC if portable electrical tools that do not have warning labels certifying their use in hazardous locations and are not permanently labeled "WARNING – SOURCE OF IGNITION WHEN IN USE".

INSPECTION FORM:

Enter one item checked for each facility inspected.

F-108

ARE ELECTRICAL INSTALLATIONS MADE IN ACCORDANCE WITH API RP 500 AND API RP 14F OR API RP 505 AND API RP 14FZ?

Authority: 114(a)

Enforcement Action: W/C/S

114(c)

198

INSPECTION PROCEDURE:

Verify that electrical installations inspected are installed in accordance with API RP 500 and API RP 14F or API RP 505 and 14FZ and Appendix 20 of this document.

IF NONCOMPLIANCE EXISTS:

Issue a warning (W) INC when the installation poses no immediate danger to personnel or equipment.

Issue a component shut-in (C) INC for a specific piece of equipment or location when it is found to be part of an unsafe installation if it poses an immediate danger to personnel or other equipment, and it can be shut-in without affecting the overall safety of the facility.

Issue a facility shut-in (S) INC when the unsafe installation poses an immediate danger to the entire facility or personnel, and the specific piece of equipment or location cannot be shut-in without affecting the overall safety of the facility.

INSPECTION FORM:

Enter one item checked per facility.

WIRING AND GROUNDING

(Last update February 2004)

F-124

ARE EXTENSION CORDS USED ONLY FOR TEMPORARY USE AND DO THEY INCLUDE A GROUNDING CONDUCTOR IN ACCORDANCE WITH API RP 14F, PARAGRAPH 12.5 OR API RP 14FZ, PARAGRAPH 12.6?

Authority: 114

Enforcement Action: C

198

INSPECTION PROCEDURE

Verify that:

1. Extension cords are used for temporary use only.
2. Extension cords have a grounding conductor within the cable jacket.

IF NONCOMPLIANCE EXISTS:

Issue a component shut-in (C) INC if any extension cord is not used for only for temporary use or does not have a grounding conductor.

INSPECTION FORM:

Enter one item checked for each facility inspected.

LOCKOUT / TAGOUT PROCEDURES
(Last update February 2004)

F-141 **DOES THE FACILITY HAVE AN ELECTRICAL LOCKOUT/TAGOUT PROCEDURE IN ACCORDANCE WITH API RP 14F, PARAGRAPH 12.8 OR API RP 14FZ, PARAGRAPH 12.9?**

Authority: 114
198

Enforcement Action: C

INSPECTION PROCEDURE

Verify that the operator has developed a lockout / tagout procedure to guard against electrical shock, injury from movement, or injury from power-driven equipment.

IF NONCOMPLIANCE EXISTS:

Issue a component shut-in (C) INC if the lockout / tagout procedure for electrically operated equipment has not been implemented.

INSPECTION FORM:

Enter one item checked for each facility inspected.

NAMEPLATE INFORMATION
(Last update February 2004)

F-161 **ARE PERMANENT NAMEPLATES ATTACHED TO ALL TRANSFORMERS AND DOES THE NAMEPLATE PROVIDE THE INFORMATION IN ACCORDANCE WITH API RP 14F, PARAGRAPH 8.2.3.1.2 OR API RP 14FZ, PARAGRAPH 8.2.3.1.2?**

Authority: 114
198

Enforcement Action: C

INSPECTION PROCEDURE:

Verify that permanently attached nameplates are made of a corrosion resistant material and provide:

1. The connection diagram;
2. The name of the manufacturer;
3. Rated kilovolt-amperes, frequency, and primary and secondary voltages;
4. Percent impedance;
5. Class of insulation; and
6. The temperature rise for the insulation system.

IF NONCOMPLIANCE EXISTS:

Issue a component shut-in (C) INC if any transformer does not have a permanently attached nameplate that contains the required information.

INSPECTION FORM:

Enter one item checked for each facility inspected.
