LOCATION, ERECTION, AND ASSEMBLY OF EQUIPMENT

INSTALLATION

GENERAL EQUIPMENT REQUIREMENTS

1. GENERAL

1.001 This addendum supplements Section 800-614-154, Issue 8-D.

1.002 This addendum is issued:

(a) To revise 4.08 to specify NO-OX-ID "A", NO-OX-ID "A" Special, or Alcoa No. 2 in place of petrolatum and to clarify its application.

(b) To revise 4.09 (a) and (b) to specify NO-OX-ID or Alcoa No. 2 in place of petrolatum.

(c) To omit 4.09 (c).

(d) To revise 4.10 to specify zinc- or cadmium-plated parts plus a chromate treatment in place of copper-plated and zinc-coated steel.

4. ASSEMBLY OF EQUIPMENT

The following changes apply to Part 4 of the section:

(a) 4.08 and 4.09 (a) and (b)—revised

(b) 4.09 (c)—omitted

(c) 4.10—revised

4.08 All contact surfaces of current-carrying connections shall be clean so that metal-to-metal conact is maintained. A coating of NO-OX-ID "A", NO-OX-ID "A" Special (Dearborn Chemical), or Alcoa No. 2 inhibitor compound shall be applied immediately after cleaning contact surfaces. See 4.08 (f) for aluminum. If required, use petroleum spirits to remove dirt and grease from contact area prior to treatment noted in the following:

(a) When copper or copper-alloy contact surfaces require cleaning, sandpaper, abrasive cloth, or KS-16736 compound may be used. Remove dust or residue of compound.

(b) Threads of studs or nuts need not be cleaned unless corroded or excessively dirty.

(c) Parts having an added metallic coating shall be cleaned to remove dust or residue, but coating should not be scratched. Coat with NO-OX-ID or Alcoa No. 2.

(d) Nuts, which form a part of the electrical circuit (for example, nuts on studs), are current-carrying parts.

(e) Terminal punchings for wires smaller than No. 8 do not require the application of NO-OX-ID or Alcoa No. 2 to the punchings, bolts, screws, or nuts after cleaning since such punchings are sufficiently pliable to permit them to be drawn into close contact with the surface to which they are connected. Also, NO-OX-ID or Alcoa No. 2 may be omitted in the case of other thin pliable terminals such as the ground terminal strip on the ground bar of fuse panels.

(f) Aluminum contact surfaces shall be cleaned (dry) with sandpaper or abrasive cloth to remove the hard oxide insulating coating. Then, immediately apply a coat of NO-OX-ID or Alcoa No. 2 and use a wire brush to break up any new oxide that has reformed and reapply a coating of inhibitor compound. Clamp the connections together, within 5 minutes, if possible, without removing the inhibitor.

4.09

(a) Surfaces between bus bars and the iron framework shall be clean but need not be scraped, regardless of whether metallic or nonmetallic finish is used on the framework. The use of NO-OX-ID or Alcoa No. 2 is unnecessary.

(b) Where a lead is furnished especially for grounding purposes, as in the case of an isolated frame, the iron surface under the bus

bar or lug shall be scraped and cleaned so that a metal-to-metal connection is certain. Requirements for the use of NO-OX-ID or Alcoa No. 2 are the same as those covered in 4.08 for current-carrying connections.

4.10 Ferrous bolts, screws, nuts, washers, bus bar supports, and clips in fastening aluminum to aluminum, copper to copper, or combinations of metals shall be zinc- or cadmium-plated plus a chromate treatment, except where lead-coated or lead-encased details are used. Zinc- or cadmium-finished parts are standard; however, copper-finished parts may be used when furnished.