

Q3 XA
CONSTRUCTION STANDARDS
MANUAL NO. 3, SECT. 42
FIELD MANUAL NO.5 SECT. 2
FIELD MANUAL NO. 11 SECT. 1
FIELD MANUAL NO. 17 SECT. 1

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01-05-90

PAINING OF 460 VOLT
NETWORK PROTECTOR COMPARTMENTS
WITHIN BUILDINGS

TRANSMISSION & LICENSES SECTION
CIVIL ENGINEERING DEPARTMENT

SPECIFICATION NO. EO-1191 4

Construction Standards

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Painting of 460 Volt
Network Protector Compartments
Within Buildings

SCOPE

1: This specification covers painting of 460 volt Network Protector Compartments to prevent the masonry from efflorescing, spalling or exhibiting surface disintegration. It is to be used by contractor personnel in all districts and by Company forces where applicable.

GENERAL

2: The contractor and/or Company forces shall supply ample safety measures for protection of personnel, handling of equipment and protection of other equipment adjacent to the area being prepared for coating or being coated.

3: The contractor and/or Company forces shall clean and maintain the areas in which work is being performed.

4: The contractor shall remove all construction material and equipment upon completion and acceptance of the work by the owner.

- 5: The contractor warrants and guarantees to Con Edison that all coating work will be acceptable quality and free from faults and defects. All satisfactory work, all faulty or defective work shall be corrected, repaired or replaced by the contractor at Con Edison's convenience as expeditiously as possible.
- 6: The contractor and/or Company forces shall do his own field measuring to ensure adequate material quantities without interrupting progress due to insufficient material on hand.
- 7: The contractor and/or Company forces shall supply all tools, equipment, paint materials, thinners, consumables and scaffolding necessary to perform the proper surface preparation and painting required by the project specification.
- 8: All paint materials shall be delivered in manufacturer's sealed containers with original labels intact. The paint must never be allowed to fall below a temperature of 35 degrees F. No solvent shall be added to the paints unless so specified in the manufacturer's application instructions.
- 9: All concrete surface shall be allowed to dry for two weeks after stripping forms prior to painting.
- 10: Surface to be painted must be above 50 degrees F. air temperature. If the temperature is below 50 degrees F. no paint is to be applied unless the surface to be painted has been thoroughly warmed and dry and approved by the Company representative in charge of construction.

MATERIAL

- 11: The paint used shall be in accordance with Purchase Recommendation EO-100, 184.

SURFACE PREPARATION

- 12: All masonry must be wired brushed, so as to remove all old paint, dirt, loose masonry and concrete. Grease, oil and dirt must be removed with a solvent cleaner which could include steam cleaning, hot water and TSP (Trisodium phosphate) or Dubois Chemical Co. "Dusqueeze" or approved equal. After cleaning, a warm water rinse must be done prior to painting. All traces of solvent cleaners must be removed before painting starts.

Contractor will notify the Company representative in charge of construction after surface preparation is completed so that work may be inspected and approved. Failure to do so may result in an unsatisfactory surface finish in which case the contractor will be required to refinish at his own expense.

PAINT APPLICATION

13: Paint should be thoroughly mixed at start of job.

14: Two coats of paint shall be applied when the temperature is 50 degrees F. or higher, by brush roller or spray. On walls and ceiling, white will be the final color, the initial coat shall be medium gray so as to distinguish between the two coats. Between succeeding coats, the contractor will notify the Company representative in charge of construction before proceeding with his work so that work may be inspected. Failure to notify may result in recoating at contractor's expense. Paint shall be applied according to manufacturer's recommendations.

15: After installation of equipment the floors shall be painted by Company forces. The procedure of Paragraph 14 shall be reversed with the white coat being applied initially and the medium gray being applied as the final coat.

16: All surfaces damaged during installation of equipment shall be repaired by the Company with one coat of paint, which shall match final coating color of damaged surface.

SAFETY

17: Paint, cleaning fluid, rags and other flammable items shall be contained in safe, fireproof, explosion proof lockers as specified in NFPA 30. Empty paint cans, cleaning fluid cans, and rags shall be disposed of by the contractor. The contractor shall store these materials or equipment in a safe manner, away from cable trays or other electrical equipment. Storage shall not interfere with other operation.

18: Fire retardant drop cloth and tarpaulins shall be used where required to protect building and equipment and coated surfaces shall be protected from drips and oversprays.

19: When working in confined areas, workmen shall use the necessary safety equipment such as air masks, explosion proof electrical equipment and non-sparking shoes, tools and ladders. Hypersensitive persons shall wear gloves and use a protective cream on the face and hands. Adequate ventilation shall be provided (NOTE: solvent vapors are normally heavier than air and therefore shall be removed by suction at low elevations).

20: At no time shall the threshold limit values be exceeded for any given area per the limitations published in the American Conference of Governmental Industrial Hygienists (ACGIH).

21: The contractor and company forces is alerted that when using potentially hazardous painting materials, they shall be used at the concentrations specified and that the personnel using these materials wear proper protective devices.

22: Painting materials include all solvents, detergents, alkaline cleaners, emulsions and acids used in preparing surfaces and contained in paints.

23: All material used must comply with the Latest Edition of the New York City and New York State V.O.C. Regulations.

24: Prior to starting any painting project there must be on file at the job site a copy of the Material Safety Data Sheet on the paint being used.

REFERENCES

25. Purchase and Test Manual No.6 -
EO-100,184 - Paint used in 460 volt Network
Protector Compartments Within Buildings

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REVISION 4

On this revision the
temperature requirements
were changed and a safety
section has been added
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been expanded

FILE

Construction Standards Manual No. 3
Section No. 42 Vaults

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SEE NEXT PAGE FOR SIGNATURE

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