




SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS L-14
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Issue Date:	03/01/16
Superseded Date:	01/30/15

CORROSION CONTROL MATERIALS

Cabinet, Ornamental Rectifier

1. SCOPE

This specification covers the free standing ornamental air-cooled cabinet for semi-conductor rectifiers used in Cathodic protection systems. This cabinet is used to enclose rectifiers covered by Southwest Gas Material Specification (MS L-6).

2. APPLICABLE DOCUMENTS

- 2.1 Southwest Gas Material Specification (MS L-6), "Rectifier-Cathodic Protection."
- 2.2 United States Department of Transportation (DOT), Code of Federal Regulations, Title 49, Part 192, "Transportation of Natural and Other Gas by Pipelines Minimum Safety Standards."


NOTE: Unless otherwise specified, the editions of the above documents incorporated by DOT 49 CFR 192 are applicable. Documents not incorporated by DOT 49 CFR 192 will be the most recent edition.


3. TERMINOLOGY

3.1 General

- 3.1.1 "Southwest Gas," "Southwest" or "SWG" wherever used in this specification and other related documents will refer exclusively to Southwest Gas Corporation.
- 3.1.2 The terms "approved," "as approved," "satisfactory," "as directed," "or equal" or other similar terms wherever used in this specification and other related documents will mean "as determined by Southwest Gas," unless specifically stated otherwise.
- 3.1.3 "Product Information Package" or "PIP" wherever used in this specification and other related documents will mean the required technical product information that a manufacturer must submit to Southwest to determine if the product is suitable for use by Southwest, unless specifically stated otherwise.



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4. MATERIALS AND MANUFACTURING

- 4.1 Ornamental cabinets built to this specification will be made with hot rolled steel sheet, 5052-H32 aluminum or other approved material.
- 4.2 All air vents will be of louver design and open downward. Window screen or similar mesh material will be attached behind the vents on the inside of the cabinet.
- 4.3 Overall construction will be of good quality. All sharp edges will be removed. Weld flash will be kept to a minimum.
- 4.4 Coatings:
 - All steel parts will be coated with a t least one coat of metal primer prior to painting.
 - All aluminum parts will be anodized prior to painting.
 - The entire interior of the cabinet will be painted with approved white enamel paint.
 - The exterior of the cabinet will be painted white, tan or other approved color as specified on the purchase order.
- 4.5 The cabinet will have a sight glass made of safety glass in the specified location.
- 4.6 The enclosure door will incorporate a three-point latch assembly.
- 4.7 The enclosure door will have an approved dual-access padlock bracket (see Paragraph 5.2 of this specification).
- 4.8 The enclosure door will use a gasket to provide a good quality moisture seal between the door and the cabinet.
- 4.9 The cabinet will have a full backpan or other approved support used to attach the rectifier pan, junction box, meter can, (etc.) inside the cabinet.
- 4.10 The door will be locked with a “dual-access” device. This device allows the use of two independent padlocks for two authorized users. Removal of either of the two locks will provide access to the cabinet.



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5. INSPECTION

- 5.1 Successful review of the Product Information Package (PIP) as well as any future reference by SWG to the seller's part number or internal code number in any future contract or purchase, will mean only that no conflict with the specification was found and will not relieve the seller from meeting all the requirements of this specification.
- 5.2 SWG retains the option to inspect the manufacture and testing of any and all materials, products or systems supplied to this specification at the manufacturer's facility.
- 5.3 SWG will have the right, at their option, to reject any material, which fails to conform to this specification. Any such rejection may take place at the manufacturer's facility; the supplier's warehouse or any subsequent delivery location, before or after SWG assumes possession. Notice of the rejection will be made by promptly to the supplier by SWG. The defective product will be replaced or returned for credit at the manufacturer's expense.
- 5.4 Any changes in manufacturing of previously approved materials, products or systems described in this material specification for sale to SWG must be approved by SWG's Engineering Staff. **Failure to obtain Southwest approval may be cause for rejection and disqualification as an approved supplier.**

6. DIMENSIONS AND TOLERANCES


- 6.1 There will be a minimum of four (4) air vents, two on each side. The vents will be a minimum of four inches (4") in length and height, and have at least five (5) louvers per air vent.
- 6.2 Overall dimensions and tolerances are shown in Appendix A of this specification.



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7. CERTIFICATION

The manufacturer's or supplier's certification shall be furnished to Southwest. This certification shall state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that requirements have been met. When requested or specified in the purchase order or contract, a report of test results will be provided.

Upon the request of Southwest, the certification of an independent third party indicating conformance to the specification may be considered at Southwest's expense.

8. SAFETY DATA SHEETS

In accordance with law, the seller shall supply Safety Data Sheets for all applicable items supplied under this specification to the following:

- 1) The Receiving Location
- 2) Engineering Staff
- 3) Southwest Gas Corporation
Corporate Safety
Mail Station LVA-120
P.O. Box 98510
Las Vegas, NV 89193-8510

9. PRODUCT MARKING

All materials, products or systems sold to Southwest will be marked with the following:

- Manufacturer's name or trademark
- Manufacturer's part number
- Material identification

Southwest retains the right to require the materials, products or systems described in this specification to be marked with Southwest's purchase order number and/or head code identity.




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11. PACKAGING AND PACKAGE MARKING

All products covered in this specification will be packaged to prevent damage during transportation and storage.

12. STOCK CLASSIFICATION DESCRIPTION

CABINET, ORNAMENTAL, FOR RECTIFIER (MS L-6), 48" HIGH X 34" WIDE X 18" DEEP; 0.090 GAUGE 5052-H32 ALUMINUM; _____(TAN OR WHITE) EXTERIOR.

CABINET, ORNAMENTAL, FOR RECTIFIER (MS L-6), 48" HIGH X 34" WIDE X 18" DEEP; 14 GAUGE STEEL; _____(TAN OR WHITE) EXTERIOR.