



CATHODIC PROTECTION STATION REPORT

GD&TS
11/04
FO-16-C

Transmission Distribution Both

| | | | | |
|---|----------------|------|-------------------|--------------|
| PREVENTIVE MAINTENANCE NO. (FM OR PLM) | CP. SYSTEM NO. | AREA | DIVISION/DISTRICT | LOCAL OFFICE |
|---|----------------|------|-------------------|--------------|

RECTIFIER

| | | | | |
|--------------------------|-------|---------------------------------|------------|--------------------------|
| LOCATION | | CITY | | |
| MANUFACTURER | TYPE | MODEL | SERIAL NO. | |
| PRIMARY RATING VOLTS | | ACTUAL PRIMARY VOLTAGE VOLTS | | |
| SECONDARY RATING AMPS | VOLTS | INITIAL DC SETTING AMPS | VOLTS | DATE PLACED IN OPERATION |

ANODE

| | |
|------------------|-------------------------------|
| NUMBER OF ANODES | WEIGHT AND/OR SIZE |
| TYPE OF ANODE | BACKFILL USED AND AMOUNT USED |

CIRCUIT RESISTANCE (for deep well anodes only)

| | |
|---|------|
| Rectifier Voltage divided by Rectifier Current ($R=E/I$) | OHMS |
|---|------|

SOIL RESISTIVITY (for shallow bed anodes only)

| PIN SPACING (FEET) | OHMS | MULTIPLIER | OHM-CM |
|---------------------|-------|------------|--------|
| 2.5 | _____ | 500 | _____ |
| 5.0 | _____ | 1,000 | _____ |
| 7.5 | _____ | 1,500 | _____ |
| 10.0 | _____ | 2,000 | _____ |
| 15.0 | _____ | 3,000 | _____ |

STRUCTURE PROTECTED WALL MAP _____ PLAT _____ BLOCK _____

SHOW LOCATION OF RECTIFIER AND ANODE(S) AND PERTINENT DIMENSIONS

PREPARED BY _____ DATE _____ CALIFORNIA GRID COORDINATE NUMBER _____

“Cathodic Protection Station Report” Instructions

RECORD

Transmission/Distribution/Both: Check the appropriate box for the type of gas facility that the rectifier is protecting.

Preventative Maintenance No.: Record the rectifier’s preventative maintenance number, FM or PLM.

CP System No.: Record the cathodic protection system number for the rectifier.

Area/Division/District/Local Office: Record the names of the area, division, district, and local office where the rectifier is located.

RECTIFIER

Location: Provide details of the rectifier’s location.

City: Record the name of the city.

Manufacturer/Type/Model/Serial No.: Complete the rectifier manufacturer’s information.

Primary Rating: Record the unit’s input voltage rating per manufacturer’s specifications.

Actual Primary Voltage: Complete the unit’s input actual primary voltage rating as measured in the field.

Secondary Rating: Record the unit’s maximum secondary amperage and voltage ratings per the manufacturer.

Initial Setting: Record the rectifier’s initial setting (amperage and voltage).

Date Placed in Operation: Record the month, day, and year when the rectifier was placed in operation.

ANODE

Number, Weight and/or Size: Record the number of anodes, weight (or size) in pounds, type (material), backfill used, and the amount of backfill used.

CIRCUIT RESISTANCE

Circuit Resistance: Rectifier Voltage divided by Rectifier Current ($R=E/I$) in OHMs.

SOIL RESISTIVITY

Soil Resistivity: Record soil resistivity readings based on ohm readings and pin spacing.

Location Sketch: Include a detailed sketch of the location of the rectifier and the anodes. Ensure the sketch is precise enough to enable a person to locate those structures in the field.