| | Pacific Gas and Electric Company* |
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Battery Maintenance Log Sheet

CGT F14293-3 6/05

| Date | Bat | tery Mh | | | | | lnst | Installation Job# | | | | | | |
|--|---------|----------|-------|----------|---------------|----------|---------|-------------------|-----|---------|-----|-----|--|--|
| Station Name | Bat | tery Mo | del | | | | Mai | nt. Tecl | ١. | | | | | |
| Battery Name | | e Instal | led | | | | | Pilot Cell # | | | | | | |
| Complete the following vist | ıal ins | pectio | ns m | onthly | /quari | terly (| VRL. | A): | | | | | | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | |
| Inspect cleanliness of battery, | | | | | | | | <u> </u> | 1 | | | | | |
| rack, and surrounding area. | | | | | | | | | | | | | | |
| Clean as necessary. | | | | | | | | | | | | | | |
| Inspect terminals, connectors, | | | | | | | | | | | | | | |
| and racks for corrosion. Clean | | | | | | | | | | | | | | |
| as per mfr. instructions. | | | | | | | | | | | | | | |
| Ensure that ventilation system is | | | | | | | | | | | | | | |
| operating properly. | | | | | | | | | | | | | | |
| Check for cracks in jars and/or | | | | | | | | | | | | | | |
| electrolyte leakage. | | | | | | | | | | | | | | |
| Check for gassing (flooded cells). | | | | | | | | | | | | | | |
| L. L. | 1 | | | 1 | | + | | + | | 1 | | | | |
| Check electrode places for cracks, sulfating, or sediment | | | | | | | | | | | | | | |
| - · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | | |
| formation (flooded cells). | | | | <u> </u> | | + | | | 1 | 1 | | | | |
| Check electrolyte levels. Add | | | | | | | | | | | | | | |
| distilled water as necessary. | - | | | - | | <u> </u> | - | + | 1 | | | | | |
| | | ļ | | <u> </u> | | | | | | | | | | |
| Record the following meas | tram. | ante m | anthl | e/arrar | tark | OVEL | 4). | | | | | | | |
| record the ronowing measure | _ | | | | | ` | , | Τ. | T # | I say . | T | Tes | | |
| and the land of the control of the c | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | |
| Overall Float Voltage | | _ | | - | | | | | | | | - | | |
| Pilot Cell Voltage | | _ | | - | | | | | | | | 1 | | |
| Pilot Cell Temperature | | 1 | 1 | | | | | | | | | 1 | | |
| Filot Cell Specific Gravity | | | | | | | | | | | | | | |
| Battery Room Temperature | | | | | | | | | | | | | | |
| Charger Output Voltage | | | | | | | | | | | | | | |
| Charger Output Current | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Notes/Comments/Recomm | iendai | tions/(| Corre | ctive A | \ction | s: | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

1 of 2



Battery Maintenance Log Sheet

CGT F14293-3 6/05

Complete this table following installation, annually, and following special events for all cells.

| Cell | | Temp | S.G. | Micro- | Cell | | Temp | §.G. | Micro- | Cell | | Temp | S.G. | Micro- |
|------|-------|------|------|--------|------|-------|------|------|--------|------|-------|------|------|--------|
| No. | Volts | (1) | (2) | ohms | No. | Volts | (1) | (2) | ohms | No. | Volts | (1) | (2) | ohms |
| 1. | | | | | 21 | | | | | 41 | | | | |
| 2 | | | | | 22 | | | | | 42 | | | | |
| .3 | | | | | 23 | | | | | 43 | | | | |
| 4 | | | | | 24 | | | | | 44 | | | | |
| 5 | | | | | 25 | | | | | 45 | | | | |
| 6 | | | | | 26 | | | | | 46 | | | | |
| 7 | | | | | 27 | | | | | 47 | | | | |
| 8 | | | | | 26 | | | | | 48 | | | | |
| S | | | | | 29 | | | | | 49 | | | | |
| 10 | | | | | 30 | | | | | 50 | | | | |
| 1.1. | | | | | 31 | | | | | 5.1 | | | | |
| 12 | | | | | 32 | | | | | 52 | | | | |
| 13 | | | | | 33 | | | | | 53 | | | | |
| 14 | | | | | 34 | | | | | 54 | | | | |
| 15 | | | | | 35 | | | | | 55 | | | | |
| 16 | | | | | 36 | | | | | 56 | | | | |
| 1.7 | | | | | 37 | | | | | 57 | | | | |
| 18 | | | | | 38 | | | | | 58 | | | | |
| 19 | | | | | 39 | | | | | 59 | | | | |
| 20 | | | | | 40 | | | | | 60 | | | | |

Notes: (1) Take the temperature of flooded cells with a thermometer inserted into the electrolyte. Take VRLA cell temperatures at the negative terminal, using a thermal infrared detector.

(2) S.G. stands for specific gravity. Measurements can only be taken on flooded cells.

Complete this checklist annually.

| Check inter-cell resistance using an Alber Cellcorder or micro-ohmmeter. | |
|--|--|
| Torque inter-cell connectors as necessary and re- check intercell resistance. If still high, see Attachment 1 of this guideline, Section A, Item 11. | |
| Check for clogged flame arrestors (flooded cells). | |
| Check for excessive jar/cover distortion (VRLA). Check for unintentional battery grounds. | |

| Notes/Comments/Recommendations/Corrective Actions: | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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