



# PM CERTIFICATION REPORT

INSTALL | MAINTAIN | REPAIR | VALIDATE



| Site Data         |         | ATTACHMENT B-9     |            | Site ID: MANUAL-LEGACYPS |                |
|-------------------|---------|--------------------|------------|--------------------------|----------------|
| Latitude:         | 48.7851 | Longitude:         | -122.5247  | Date:                    | Jul. 30, 2013  |
| Hub:              | 123     | City:              | BELLINGHAM | State:                   | WA             |
| Region:           | NW      | System:            | WHATCOM    | Node:                    | A1             |
| Country:          | USA     | Project ID:        | EXHIBITS   | Street:                  | 3767 ALPHA WAY |
| Business Service: | NO      | Utility Account #: |            | Utility Company:         |                |
|                   |         | Utility Meter #:   |            | Pole #:                  |                |
|                   |         |                    |            | Powering a Node:         | YES            |

| Comms Data      |                   |                   |       |                   |  |
|-----------------|-------------------|-------------------|-------|-------------------|--|
| CM Mac Address: | 00:90:EA:00:7B:AE | SNR:              |       | CER:              |  |
| CM IP Address:  |                   | Transponder Type: | OTHER | Firmware Ver:     |  |
| Tx Power:       |                   | T3 Timeouts:      |       | Rx Power:         |  |
| T4 Timeouts:    |                   | <b>SNMP TRAPS</b> |       |                   |  |
| Trap 1:         |                   | Trap 2:           |       | Trap 3:           |  |
| Alpha MIB 1:    |                   | Alpha MIB 2:      |       | Alpha MIB 3:      |  |
| Alpha MIB 4:    |                   | <b>UPSTREAM</b>   |       |                   |  |
| Frequency:      |                   | Modulation:       |       | Lock Status:      |  |
| Channel ID:     |                   | Symbol Rate:      |       | <b>DOWNSTREAM</b> |  |
| Frequency:      |                   | Modulation:       |       | Lock Status:      |  |
| Channel ID:     |                   | Symbol Rate:      |       |                   |  |

| Power Supply Data        |                            |                      |                        |                          |                              |                           |
|--------------------------|----------------------------|----------------------|------------------------|--------------------------|------------------------------|---------------------------|
| Power Supply Make-Model: | OTHER                      | PS Date Code (MMYY): | 0595                   | PS Refurb Date (MMYY):   |                              |                           |
| PS Firmware Version:     |                            | Total Run Days:      |                        | PS Enclosure Make-Model: | UPE-3                        |                           |
| UG or Aerial?:           | UG                         | PS Output VAC:       | 90                     | 120V or 240V?:           | 120                          |                           |
| Power Supply #           | <b>Power Supply Events</b> |                      | AC Input Voltage (VAC) | Output Voltage (VAC)     | <b>Output Current (AMPs)</b> |                           |
|                          | Number                     | Time                 |                        |                          | Primary (1)                  | Secondary (2- If present) |
| PS1:                     |                            |                      | 117                    | 87                       | 4.8                          |                           |

| Battery Data           |                      |                       |      |                       |                                                   |                              |                |
|------------------------|----------------------|-----------------------|------|-----------------------|---------------------------------------------------|------------------------------|----------------|
| Self-Test Verified:    | YES                  | Self-Test Start Time: |      | Self-Test Stop Time:  |                                                   | Battery Temperature (°F):    | 86             |
| Battery #              | Battery Manufacturer | Date Code (MMYY)      | ID # | Voltage No Load (VDC) | Voltage Under Load (VDC) After 9 Minute Self-Test | <b>BS Conductance (mhos)</b> |                |
|                        |                      |                       |      |                       |                                                   | Meter Reading                | Corrected 77°F |
| A1:                    | ALPHA 220GXL         | 1112                  |      | 13.3                  | 12.5                                              | 1020                         | 984            |
| A2:                    | ALPHA 220GXL         | 1112                  |      | 13.3                  | 12.5                                              | 1030                         | 994            |
| A3:                    | ALPHA 220GXL         | 1112                  |      | 13.3                  | 12.3                                              | 1040                         | 1004           |
| A4:                    |                      |                       |      |                       |                                                   |                              |                |
| <b>String A Total:</b> |                      |                       |      | 39.9                  | 37.3                                              |                              |                |
| B1:                    |                      |                       |      |                       |                                                   |                              |                |
| B2:                    |                      |                       |      |                       |                                                   |                              |                |
| B3:                    |                      |                       |      |                       |                                                   |                              |                |
| B4:                    |                      |                       |      |                       |                                                   |                              |                |
| <b>String B Total:</b> |                      |                       |      |                       |                                                   |                              |                |
| CHARGER INFO           |                      |                       |      |                       |                                                   |                              |                |
| Charger Mode:          |                      | Charger Current:      |      | Accept (V/C):         |                                                   | Charger Current Limit:       |                |
| Float (V/C):           |                      | Temp Comp (mV):       |      |                       |                                                   |                              |                |





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## As-Found Local Power Supply Alarms

| Alarm           | Major/ Minor | Tech Notes/ Actions Taken | Cleared On Site? |
|-----------------|--------------|---------------------------|------------------|
| BATT TEMP PROBE | MINOR        |                           | YES              |
|                 |              |                           |                  |
|                 |              |                           |                  |
|                 |              |                           |                  |
|                 |              |                           |                  |
|                 |              |                           |                  |

## Inspection

### Enclosure Interior and Exterior Maintenance Checklist:

| Item to Check                         | Yes/No | Item to Check                     | Yes/No | Item to Check                     | Yes/No |
|---------------------------------------|--------|-----------------------------------|--------|-----------------------------------|--------|
| Clean Dust/Dirt From Enclosure Inside | YES    | Check Wire Harness And Connectors | YES    | Site Grounded Properly            | YES    |
| Enclosure Hardware Properly Tightened | YES    | AC TVSS Installed and Functioning | NO     | Check For Pad Undermining         | YES    |
| Battery Hardware Properly Tightened   | YES    | Clean And No-Ox Batteries         | YES    | Battery Temperature Probe Present | YES    |
| AlphaGuard Installed and Functioning  | YES    | LRI Installed and Functioning     | NO     | PS Event Log Cleared              | YES    |
| Tamper Installed and Functioning      | NO     | ACI Installed and Functioning     | NO     | PIM/DOC Installed and Functioning | NO     |
| Enclosure Secured                     | NO     | Coax TVSS Present                 | NO     | Dual Utility Switch Present       | NO     |

|            |   |                  |   |                |          |                 |          |                        |    |
|------------|---|------------------|---|----------------|----------|-----------------|----------|------------------------|----|
| Pad Value: | 3 | Cable Sim Value: | 0 | Tap Installed? | EXISTING | Drop Installed? | EXISTING | Generator Cord Present | NO |
|------------|---|------------------|---|----------------|----------|-----------------|----------|------------------------|----|

## Work Items

| Work Item                                             | QTY | Part Number |
|-------------------------------------------------------|-----|-------------|
| PS01 Transponder Install and Activation               |     |             |
| PS02 Transponder Install and Activation Non-Alpha     |     |             |
| PS03 Drop Riser                                       |     |             |
| PS04 Install Tap                                      |     |             |
| PS05 Battery Change Out **                            |     |             |
| PS06 Clear Alarms                                     |     |             |
| PS07 Complete PS PM 3 battery                         | 1   |             |
| PS08 Complete PS PM 6 battery                         |     |             |
| PS09 Install Batt Charger System (Alpha Guard)        |     |             |
| PS10 Change out circuit breaker (outlet?)             |     |             |
| PS11 Change out wiring (outlet?)                      |     |             |
| PS12 Install Ground Rod                               |     |             |
| PS13 Install Bond/Ground                              |     |             |
| PS14 Install New Indicator lamps                      |     |             |
| PS15 Drop Repair                                      |     |             |
| PS16 Replace XM with XM2 or XM3, same trip            |     |             |
| PS17 Separate Return Trip Charge                      |     |             |
| PS18 Field Audit                                      |     |             |
| PS19 Hourly Rate                                      |     |             |
| PS20 Material Transport                               |     |             |
| PS21 Transponder Install & Activation and Complete PM |     |             |

## Technician Info

Open Items For Repeat Visit:

|                                          |   |                                 |   |
|------------------------------------------|---|---------------------------------|---|
| Initial X-Tractor & Form Time (minutes): | 7 | Additional Form Time (minutes): | 0 |
|------------------------------------------|---|---------------------------------|---|

### PM Service Technician:

|            |       |             |      |            |               |
|------------|-------|-------------|------|------------|---------------|
| Last Name: | SMITH | First Name: | JOHN | Contact #: | Technician #: |
|------------|-------|-------------|------|------------|---------------|

**ALPHA TECHNOLOGIES INC.**

3767 Alpha Way | Bellingham, WA 98226 | Tech Support: 800.863.3364 | [www.alpha.com](http://www.alpha.com)

