

ARM Manus Research Station

Site Visit 0707M Report

Visit Duration: 15 July to 20 July 2007

Manus Island, Papua New Guinea

SV-0707M Final Report

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|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site: Manus | Dates on Site: 15 - 20 July 2007 |
| Team Members: Troy Culgan Chris Bull | Required Items & Other Actions: <ul style="list-style-type: none"> • Purchase programmable phone handset - BOM • SKYRAD IRT PC and cable (on site) • MPL port window glass (on site) • MMCR TWTA attenuator - BOM to hand-carry • Battery-operated smoke alarms (on site) • AED software card - BOM to hand-carry • Anemometer cable (ship from SGP) |
| Task Summary: | Safety: <u>Major Hazards:</u> Caustic chemicals (KOH), Explosive gas (H2), AC electricity <u>Hazard Controls:</u> BOM Electrolyser Handbook, BM Electrolyzer Operations/Maintenance Training, ASNZS 4836/2001-Safe Working on LV Electrical Installations, 2-man rule When replacing items (e.g., desiccant, filters, etc.), record and report the quantity of spares left on site. |

SITE TASKS

High priority / usually non-routine

Low priority / usually routine

Completed

| Priority | System | Date Completed (dd/Month) | Service Time (hours) | Tasks <small>For each priority item insert new line (row) for each date/time entry</small> |
|----------|--------|---------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | MMCR | | | Install new TWTA |
| | | 16-Jul | 4 | TWTA and CUDC installed, calibration in progress |
| | | 16-Jul | 6 | installing correct wiring for MMCR Leibert UPS in progress |
| | | 17-Jul | 4 | MMCR Leibert UPS install complete |
| | | 17-Jul | 4 | TWTA calibration complete, TWTA property number WD24370 with tube WD54591 installed, TWTA property number WD30130 with tube WD30732 removed. |
| | | 17-Jul | 1 | CUDC install complete, CUDC property number WD54096 installed, CUDC property number WD23181 removed. |
| | | 18-Jul | 3 | Recalibrate TWTA as per mentors instructions |
| 2 | SMET | | | Replace anemometer cable with same cable as AMF to maintain integrity of wiring diagrams |
| | | 19-Jul | | Cable has not arrived on site |
| 2A | AWS | | | Perform calibration check as per BOM maintenance procedure |
| | | 19-Jul | 4 | Calibration check complete |
| 3 | BBSS | | | Confirm radiosonde data transmitted to PNG NWS as per DigiCORA II method - Nitschke to follow up |
| 3A | BBSS | | | Upgrade Digicora software to version 3.52 |
| | | 19-Jul | 1 | Upgrade complete |
| 5 | ES&H | | | Find defibrillator pads on site and install on AED. |
| | | 18-Jul | 0.5 | One set with defibrillator (expiry date 12/2008) |
| 6 | ES&H | | | Install battery smoke alarm in U-Van - verify appropriate location with Jones |
| | | 18-Jul | 0.5 | Installed genset side, toolside already has one installed. |
| 7 | OTHER | | | Remove PII from Observer PC (and record SN) as per procedure |
| | | 17-Jul | 1 | PII removed from observer PC as per procedure.(Los Alamos number 1144279) |
| 8 | OTHER | | | Remove PII from Waffi Laptop (and record SN) as per procedure |

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|----------|--------------|---------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 17-Jul | 1 | PII removed from Waffi laptop as per procedure. (Los Alamos number 1114329) |
| 9 | OTHER | | | Remove PII from Dick Pearse Laptop (and record SN) as per procedure |
| 10 | ES&H | | | Remove all hard-wired smoke alarms in all vans |
| | | 18-Jul | 1 | Removed hard wired smoke alarms |
| 11 | ES&H | | | Install fire extinguisher in Y-Van, ISS-Van, U-Van and HOGEN Van |
| | | 19-Jul | 2 | Extinguishers installed D-Van, I -Van,U-Van, Hogen |
| 12 | OTHER | | | Remove PII from Thompson Laptop (and record SN) as per procedure |
| 13 | OTHER | | | Remove PII from Luana Laptop (and record SN) as per procedure |
| 14 | MPL | | | Install new port window |
| | | 19-Jul | 2 | Replaced port window, old window destroyed during removal. |
| 15 | H2GEN | | | Perform HOGEN internal Gas sensor calibration. Calibrate HOGEN Van gas sensors. Ensure test gas cylinder valves are closed before leaving site. |
| 16 | VANS | | | Look for Van roof corner posts |
| | | 19-Jul | 1 | No van corner posts on site |
| 17 | GENSET | | | Burr diesel tank cap threads |
| 18 | ES&H | | | Confirm revised Safety Plan in place |
| | | 19-Jul | 0.5 | Safety Plan dated May 2007 in place |
| 19 | OTHER | | | Review fiber optic cables and determine spares needed in pre-terminated lengths |
| 19A | OTHER | | | Install Leibert UPS E-Van, check wiring of red UPS outlets |
| | | 18-Jul | 3 | Install complete |
| 20 | MMCR | | | Change out fan for Radian Receiver, 12VDC |
| | | 17-Jul | 1 | Changed out fan during MMCR repair. |
| 21 | PWR | | | Provide current 12Volt battery information: Make, model, type, amp hour rating, lug type and check Lorengau for availability or similar |
| | | 18-Jul | 0.5 | Yuasa NP65-12 65AH |
| 22 | ES&H | | | Train Observers on Lock Out/Tag Out procedure |
| 23 | OTHER | | | Assess Observer PC situation - rebuild or replace with GX270 or GX620 if necessary |
| | | 17-Jul | 1 | ObserverPC was unable to read USB memory sticks, fault rectified by replacement of BIOS battery |
| | SHIPPING | | | List items to be shipped following visit |
| | | | | TWTA to SGP |
| | | | | CUDC to SGP |
| | | | | TWTA calibration equipment to Darwin |
| | FUTURE NEEDS | | | List items needed for future visits (spares, etc.) |

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|----------|--------|---------------------------|----------------------|--------------------------------------------------------------------------------|
| | | | | MWR weather proof outlets require FS or FD mounting boxes |
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