

ARM Manus Research Station

Site Visit 0404M Report

Visit Duration: 17 April to 22 April

Manus Island, Papua New Guinea

SV0404M

Site: Manus	Proposed Dates on Site: April 19-22
Team Members: Rex Pearson Elijah Garietz	Ship or hand carry prior to SV: MPL LASER DIODE SUPPLY DS TIME SERVER CONSOLE SERVER
	Safety: Major Hazards: AC electricity. Hazard Controls: ASNZS 4836/2001-Safe Working on LV Electrical Installations, 2 man rule.

Site Tasks

Priority	System	Date Completed (dd/Month)	Service Time in Hours	Tasks/Assoc Hazards-Controls
For each priority item insert new line(row) for each date/time entry				
1	MPL			Replace MPL LASER Diode Supply and restore instrument to proper operation./None
		18-Apr-04	2	MPL power supply installed. Mains switch was not connecting power to the unit - a workaround was done (bypass front panel switch) and unit is functioning. Chacked data is being collected on collector. MPL running at 0335z Removed from Manus MPL on 18Apr04 - to be sent back to SGP: Laser Diode Power Supply Model: R1-740G S/N: U3680 Property Number: WD27512 Replaced with: Spectra Physics brand Laser Diode Power Supply Model: 7300-L3 S/N: 3008 Property Number: WD36048
		19-Apr-04	0.5	Conner Flynn reported data was good. Ingest enabled.
2	DS			Install new time server./None
		18-Apr-04	1.5	Time server programmed and installed. Ron Reed needs to stop collector working on IP address of .74 so system can be fully checked. System is reporting good satellite coverage and time is updating. Removed from Manus DS on 18Apr04 - disposed of locally: Datum Brand Time Server Model: Tymeserve 2100L Serial No: 2034230 Replaced with: Symmetricon brand Time Server Model NTS150 S/N 44190
		19-Apr-04	1	Finished antenna cabling for the NTP server
		19-Apr-04	0.5	Communications between the console server and the NTP are now functioning - (means we can log in remotely and talk to the NTP server)
		20-Apr-04	1	Ron Reed disabled collector time serving on ip address of .74. Checked that new time server was serving to instruments.

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3	DS			Change instrument laptops to include Abouttime as the time client and configure for both the Time server and collector to act as the time servers./None
		18-Apr-04	1	Ceilometer and MWR laptops updated at 0300.
		18-Apr-04	0.5	MPL laptop updated at 0400z
		19-Apr-04	1	BBSS laptop ethernet card not working. Installed drivers and tested ok. Installed abouttime and time synch checked.
		19-Apr-04	1	Installed abouttime on AWS, and observer laptops. Updated Microsoft service patches on AWS and observer PC.
4	MWR			Install new dew blower s/n 27 ./Electrical-ASNZS 4836/2001
		19-Apr-04	1	Unable to locate blower number 27. Spares on site are 5A and 6A and number 029 is installed on the MWR
				Troy advises he and Terry replaced the blower on their last trip to Manus.
		20-Apr-04	0.1	Monty advised the replacement unit has not been sent.
5	DS			Install and configure new console server./None
				Console server installed but require Dick Eagan to check operation
		18-Apr-04	1.5	Removed from Manus Data System on 18Apr04 (Shown as DS Cisco Router in OMS - should change name in the OMS to "Console Server - Router") - send to Darwin: Cisco brand Console Server - Router Model: 2511RJ S/N: 251004179
				Replaced with (Shown as DS Router in OMS. Should change name in OMS to "Console Server - Router") Cisco brand Console Server - Router Model: 2621XM S/N: JMX0810L05J
		19-Apr-04	1.5	Worked with Dick Eagan to change cable assignments and test remote connectivity. System now functional except for connection to console server. An adapter cable was made up to allow communications to the NTP server but insufficient parts are available to make another cable for the console server. I have made up the connection leads and marked them - Tony Baldwin is bringing an RJ45 coupler with him next week - this will finish off the connection to the console server.
		21-Apr-04	1	Connector assembly completed to connect switch to console server, and am able to talk to the switch
6	Other			Complete Maintenance Task List/Electrical-ASNZS 4836/2001
		20-Apr-04		Completed
7	H2GEN			Change V-6 and V-9 tap valves./None.
		19-Apr-04	1	Changed V6 and V9.
			1	Changed hose going to the Oxygen test point. There was a small leak in the hose. Tested ok and gas generated.
			0.5	Observers reported the water tap in the RBL for the spray assembly was also leaking. Looked at current unit but nothing we can do with it. Tony Baldwin is going to hand carry a replacement and fit on site next week.
8	Other			Repair and sort out internet connection problems for Dick Pearse /None
		20-Apr-04	3	Checked laptop and found all to be working ok. No connection to the internet - user name and password rejected. Tried using the acrs1 account and all worked ok. Rang Daltron to check account status and was told the account was disconnected due to non payment of account. Information passed to Cheryl Straub for action. Left the dialer set for arcs1 account and advised how to change to the pearse account when the account was restored. (This was done to give him internet access)
9	Skyrad			Check skyrad stand components for level adjustment /None
		21-Apr-04	2	Checked and adjusted levelling of tracker. Checked radiometers, replaced broken levelling screws and re-levelled radiometers.

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10	Shipping			List items to be shipped following visit/ None
				Pack up Y43 sondes for shipment to Interconex, final destination SGP, and relay number to be shipped
		20-Apr-04	1	Hymson advises there were shipped out several weeks ago. Tracking on the DHL web page show then sitting in Port Moresby.
		21-Apr-04	1	Hymson given the console server (Cisco 2511RJ SNo 251004179) to be sent to Darwin and the MPL laser supply (Model : Spectra Physics WD No : WD27512 Model : R1-740G SNo : U3680) to be sent to SGP.
11	Future Needs			List items needed for future visits (spares, etc) / None
				DB9 male to RJ45 adapters
				DB9 female to RJ45 adapters
				RJ45 joiners
				Screws for radiometer mount/level adjustments (2 sizes)
				Water tap for RBL spray assembly - to be handcarried and installed by Tony Baldwin between 23-26Aug04.
				MPL Power Supply main front panel switch (bypassed as it was not working).