ARM Nauru Research Station
Site Visit 0406N Report

Visit Duration: 7 June to 11 June

Nauru Island, Republic of Nauru

SV0406N			
Site:Nauru Proposed Dates on Site: 6/7-6/11			
Team Members: Kevin Widener(PNL) on site Rex Pearson	Ship or hand carry prior to SV: MMCR Components CIMEL		
	Safety: Major Hazards: Caustic chemicals(KOH), Explosive gas(H2), AC electricity. Hazard Controls: ASNZS 4836/2001-Safe Working on LV Electrical Installations, 2 man rule.		

Site Tasks

P		Date	Service Time	Tasks/Assoc Hazards-Controls
rio	System	Completed		
Priority		(dd/Month)	in Hours	For each priority item insert new line(row) for each date/time entry
	MMCR			Repair MMCR/Electrical- ASNZS 4836/2001
				Checkout spare pulse controller for MMCR - not the same style
		27-May-04	3	as unit installed - The connectors do not match.
		•		Continued work on MMCR. Mux unit that was sent from Barrow
				appears faulty - changing it with the original has allowed that to
				work. It appears that the GPIB controller on the TWT amplifier is
				faulty - we have asked Darwin to remove the controller from the
				TWT there and try to ship to Nauru as soon as possible. It may
				be possible to run the MMCR without the TWT under the bus
		31-May-04	8	control - we are testing that.
				MMCR is still functioning when we arrived this morning, looks like
		1-Jun-04		the TWT may have been the culprit.
		1-Jun-04		Continued MMCR tests - started a calibration run on the unit.
		2-Jun-04	8	Continued tests and rerun calibration proceedures
				Replaced GBI card in the TWT and restored the MMCR to normal
				operation, all tested ok. Calibration issues were resolved and
				MMCR is functioning normally. Replacement UPS installed and
		3-Jun-04		tested.
		4-Jun-04	2	Final checks on the MMCR - all going ok
				Changeout CIMEL w/ New Unit and Ship old unit back to
2	CIMEL			SGP/Electrical- ASNZS 4836/2001
			_	Cimel swapped out. Main unit reprogrammed with Nauru
		27-May-04	2	parameters and alignment checked. Data verification required.
				Cimel main unit WD24860 Sn0 99 - Head WD35512 removed
				from service
				Cimel main unit WD35519 Sno 168 - Head WD35518 installed as
				replacement.

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				Inspect all vans to ensure that there are no digital thermostats in
3	HVAC			use/None
	1455.05	27-May-04	1	Vans check and all are "manual" controls
4	MFRSR	00.14	4.5	Head and Board assess for possible change-out/None
		28-May-04	1.5	Checked equipment on site.
				RSR logger board 9CC1 and memory card 175
				RSR logger board B540 and memory card 78 No RSR heads found on site
	MMCR			
<u> </u>	IVIIVICK			Change out Fan for Radian Receiver/None Kevin advised there was no requirement to change out the fan as
				the whole receiver would be replaced as part of the upgrade. Fan
		3-Jul-04	0.5	is in good condition.
6	MPL	3-3ul-04	0.5	Change out Timer Shutter Batteries (AA)/None
	IVII L	28-May-04	0.5	Batteries changed out and time settings checked
7	MWR	zo may o r	0.0	Change out Teflon Window/None
				MWR out of service 2220z. Telfon window replaced and debris
		29-May-04	1	cleaned out of MWR encosure. MWR back in service 2320z
8	SMET	·		Assess/Inspect hand held probe for possible change out/None
		28-May-04	1	TRH probe T1120020 out of date cal was due 19March02
				TRH probe W4630003 out of date cal was due 4Feb04
				TRH probe W0120003 out of date cal was due 27March04
				Suggest 2 of the oldest out of date probes be sent back for cal then returned to
				Nauru. Changeout of probe can then occur during the logger changeout. Then
				the remailing out of cal probe can be sent back for cal leaving a calibrated probe on site.
-				Identified TRH probes for shipping and gave to observers to ship
		3-Jul-04	0.5	to SGP
		3 3 3 1	0.0	Download WSI cal data files from WSI cpu and forward to J
9	WSI			Shields. /None
				Confirmed data files still exist on the WSI. Will download
		27-May-04	0.5	tomorrow.
		ĺ		WSI data files retrieved with a binary transfer. A copy of two files
				were emailed to Janet and Bill Porch for testing to see if they were
L		28-May-04	1.5	ok.
				Janet Shields confirmed the binary transfer worked - have all the
		30-May-04	0.5	files on my laptop to burn in Darwin
10	BBSS			Retrieve config files from BBSS
				BBSS config and sysgen files retrieved from the Digicora and the
		28-May-04	2.5	spare. Files sent to Bill Porch and Barry.
11	BBSS			Check - re upgrade of Digicora2 to Digicora3
				Initial check of spare Digicora unit against the upgrade
1		1		instructions do not initially appear that there will be any
		1		unexpected problems in the unit upgrades. I have sent Barry
		20 Mari 04	_	Lesht the serial number of the antenna to confirm there are no
-		28-May-04		upgrade issues with the antenna.
12		29-May-04	2	Completed checks - Tidy up SDS rack
12		29-May-04	2	Tidy up SDS rack Tidy up of cabling on the SDS rack
		29-11/1ay-04	<u>၂</u>	Thuy up of cabiling of the SDS tack

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ity		(dd/Month)	in Hours	For each priority item insert new line(row) for each date/time entry
				Completed tidy up - updated switch assignment record for
	- .	30-May-04	3	Richard Eagan and emailed to him.
13	Tasks	00 May 04	0	Additional tasks as per L. Jones
		29-May-04		Commenced additional tasks as per emails from Larry Jones Continued tasks
-		30-May-04 31-May-04		Continued tasks Continued tasks
1/1	Camera	31-May-04	3	Install new camera software and train observers on it's use
14	Carriera			Camera software installed on observer PC and Frank trained on
		30-May-04	1	_
15	Observer Po			Check operation, clean and update software
		30-May-04	2	Noticed lots of popups occuring on the observer PC. Removed spyware installed on PC and cleaned system. Checked for Windows updates and ensured anti-virus software was updating. Completed defrag of hard drive.
16	Logger char	ngeout		Prep for logger changeout
		31-May-04	2	Installed Loggernet PC in D Van and connected to the network, cleaned off the bench in D Van and tidyied up the cabling
		1-Jun-04	2	Setup Gndrad logger for testing Loggernet PC and connectivity.
		2-Jun-04	1	Put PSP and PIR onto the gndrad logger under test conditions and created a RTMC screen for the observers to get used to before the operational system is installed.
17	ARCS3 AEF	RI install		Prep for ACRS3 Aeri install - Measure equipment requirements etc
		1-Jun-04	2	Aeri enclosure measured and photographed and basic drwaings done to allow construction of the Darwin enclosure
		2-Jun-04	1	Completed additional measurements of AERI enclosure
		3-Jun-04	1	Changed out desiccant again and monitored humidity levels in the AERI.
18	Vehicle			Replace vehicle clutch master cylinder kit
40	OL 18 C	27-May-04	1	Master cylinder kit replaced and site vehicle is operational again
19	OH&S			Skyrad/gndrad stands The fibreglass box sections (top rail) on the gndrad/skyrad stand have loose fiberglass fibers on them due to the degragation of the surface. I am not sure but suspect this could pose a health
		1-Jun-04	1	hazard if the glass fibers are ingested whilst working near the stands. There may be a suitable product that could be painted on the surfaces to help stabilise the degragation and remove the potential safety issue. As an intirum measure I have advised the observers they must use hazard masks when working near the stands. I need confirmation/or otherwise this poses a saftey
20				Replace SNMP card in SDs UPS
		2-Jun-04	2	Replaced SNMP card and reconfigure switch assignments in conjunction with Richard Eagan. Confirm APC now reporting status to the DSView page.

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				Additional changes to the switch connections and re-ip of the
		4-Jun-04	1.5	genset mon PC
21	VoIP phone			Install VoIP handset in D Van and label
				Installed a parallel VoIP handset into the D Van to allow calls to
				be made to/from the D van and labeled all phone handsets and
		3-Jun-04		internet connection cables
22	SHIPPING			List items to be shipped following visit/ None
				Cimel to SGP
				TRH probes to SGP
				Mux and ADC from MMCR
	FUTURE			
23	NEEDS			List items needed for future visits (spares, etc)/ None
				Spare RSR head