

ARM Nauru Research Station

Site Visit 04012N Report

Visit Duration: 13 December to 17 December

Nauru Island, Republic of Nauru

SV0412N

Site: Nauru	Proposed Dates on Site: 12/13-12/17
Team Members: Troy Culgan Mike Alsop David Kratzman (A.E.Smith)	Ship or hand carry prior to SV: MSDS for battery acid, Rubber dishpan (for secondary containment of battery acid container), Enclosed container (for protective clothing), MPL laser diode module, CD-ROM drive (for EMWIN computer), 2 dehumidifiers, APC Office UPS, WSI ARC drive
	Safety: Major Hazards: AC electricity. Hazard Controls: BOM Electrolyser Handbook, BM Electrolyzer Operations/Maintenance Training, 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	H2GEN			H2Gen Maintenance/ KOH,H2,Electrical- BOM Handbook, ASNZS 4836/2001, 2 man rule
		14-Dec	8	H2Gen Maintenance Complete
		15-Dec	2	RBL maintenance complete
2	MPL			Install MPL
		13-Dec	2	MPL installed at 0100 13 Dec
		16-Dec	4	Worked with Albert Mendoza to attempt to get the MPL operating fully, Albert concluded that the detector has failed. Albert asked if I could instruct the observers on how to change the detector. I have shown Andrew the procedure he needs to follow to change the detector and Albert will be available to assist. Albert will ship a replacement detector in the near future.
3	SAM			Change out APC Office UPS on SAM laptop
		15-Dec	1	Referred to Rex Pearson, change or by bypass not required.
4	HVAC			A/C service
		14-Dec	4	I-Van #3 AC outdoor unit replaced, compressor failure
			2	WSI AC serviced, compressor noisy may need replacing at a future date
			1	Unable to locate R22 refrigerant gas cylinder
		15-Dec	4	I-Van#2 AC outdoor unit replaced, compressor failure discovered during service
		16-Dec	8	ALL AC coils flushed with fresh water, filters cleaned. AERI blower intake filter cleaned.AC maintenance complete
5	HVAC			D-Van - oversee replacement of internal fan unit if required and not already done by Nauru HVAC tech
		13-Dec	3	Outdoor unit replaced due to seized compressor

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
6	ORG			Replace current ORG (#115) with new ORG (#815); leave #115 as a spare
		14-Dec	2	ORG changed out 815 installed ,SMET logger config updated with new parameters for 815 ORG
7	BBSS			Clean DigiCora tape reader
		16-Dec	1	Tape reader cleaned
8	CIMEL			Change out CIMEL belt
		15-Dec	1	Belt inspected,does nor require replacement
9	EMWIN			Reload EMWIN software as files are corrupted (need details from Colin Schultz)
		13-Dec	1	CD Rom Drive replaced on EMWIN PC
		15-Dec	4	Emwin software reloaded and configured.Windows 98 corrupt files reloaded. Emwin computer now operational
10	ES&H			Change out batteries in Kiddle Nighthawk smoke/fire/CO detector (3 AAA batteries)
		16-Dec	0	Smoke detectors changed to 10 year detectors during SV0409N
11	GENSET			Inspect fuel levels and determine usage of fuel drums
		16-Dec	1	Current fuel drum status:20 drums recently filled by NPC;8 drums from most recent shipment;20 drums from second shipment;16 drums from first shipment as yet not used
12	ES&H			Change out eye wash fluid in H-Van and U-Van
		16-Dec	1	Eys wash fluid changed
13	IRT			Change out SKYRAD IRT gold mirror
		15-Dec	1	Changed out IRT gold mirror at 22:40 13 Dec UTC
14	MMCR			Corrosion check on external components - remove tape on waveguide and re-tape after inspection
		15-Dec	1	Checked; no corrosion evident
15	MMCR			Change out antenna heater filters
		15-Dec	1	Filter changed
16	MMCR			Change out TWTA desiccant
		15-Dec	1	Desiccant changed
17	MPL			Change out laser diode module
		13-Dec	2	Laser Diode module changed during MPL install at 0100 13 Dec
18	VANS			Change out dehumidifier in D-Van
		14-Dec	1	Dehumidifier changed out
19	WSI			Replace Desiccant in camera housing
		16-Dec	2	Dessiccant replaced
20	Licor			Licor installation preliminaries
		16-Dec	1	Licor installation site inspected
21	SHIPPING			List items to be shipped following visit:
				Old MPL to SGP
				Failed NL100
				IRT gold mirror
22	FUTURE NEEDS			List items needed for future visits (spares, etc.):
				WSI AC unit (possible spare held in Darwin

<i>Priority</i>	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
				R22 refrigerant (Darwin gas bottle could be shipped as gas is readily available in Darwin)
				Fend-All eyesaline concentrate
23	CIMEL	16-Dec		Set Time on Cimel
			1	Cimel time corrected and set