	ELECTROLYSER				
	Momote			Date: 17-Feb-04	
	Check Performed	H'Book Reference	Requirement	Action	
Gas	Analyser				
1	Battery condition of analyser	Section 4.1 (Teledyne)	Between 6 - 8 on the 25% scale	ОК	
2	Calibration against air of gas analyser	Section 3.4.1 (Teledyne)	20.80%	Corrected up	
3	Aspirator filter condition		Moisten, replace when gluggy	Good	
4	Electrolyser hydrogen gas sample reading		Less than 1 %	0.03	
Eleo	ctrical Cabinet Pressuri	sation System			
5	Wind sail switch operation	Section 8G(b) (Electrolyser Corp)		ОК	
6	Purge time delay relay operation	Section 7B(ii) (Electrolyser Corp)	Greater than 60 seconds	61	
7	Air vent holes, rear of electrical cabinet unobstructed			ОК	
8	Exterior air intake vent unobstructed		[Cleared	
9	Lubrication of pressurising fan		4 drops of oil per lubricating point	Oiled	
10	Air filter		Clean and replace as necessary	Replaced	
Cor	ntrol Systems				
11	High pressure cut-off switch	Section 8G(a) (Electrolyser Corp)	$100 \pm 3 \text{ psi}$	700 kpa	
12	Compressor start switch (ZSH6)	Section 7D(iii) (Electrolyser Corp)		ОК	

13	Compressor stop switch (ZSL6)	Section 7B(iii) (Electrolyser Corp)	[ОК
14	Compressor stop switch (ZSLL6)	Section 7B(iii) (Electrolyser Corp)	[ОК
15	Operating current	Section 7B (Electrolyser Corp)	250 amps	240
16	Idle current	Section 7B (Electrolyser Corp)	30 amps	30
Wa	ter System			
17	Demineralizing cartridge colour	Section 8F (Electrolyser Corp)	Change if showing colour change(black >brown)	Changed
18	Deionising resin		Change if above test shows a colour change	Nauru only
19	Water seal	MEI 4.4001	Clean	Cleaned
20	Water seal overflow pipe height	MEI 4.4001 par 18	280mm	Set
21	Water tubing - ¼" dia		Check condition for deterioration and replace as necessary	Fair
Ele	ctrolytic Cells			
22	Cell condition		[Fair
23	Vent tube condition		[Good
24	Electrolyte leaks		[Nil
25	Oxygen contamination check of each cell	Cell 1 Cell 2 Cell 3 Cell 4	Less than 1%	0.05 0.03 0.04 0.03
			l	0.03

	Cell5	Г	0.04
26 Specific gravity of each cell	Cell 1 Cell 2 Cell 3 Cell 4	Greater than 1270	1275 1290 1295 1280
	Cell 5		1280
27 Hydrogen vent pipe exit		Check for obstructions and remove	Clear
28 Oxygen vent pipe exit		Check for obstructions and remove	Clear
Compressor			
29 Compressor		Complete overhaul every maintenance visit	Checked
30 Compressor valve plate		Complete overhaul every maintenance visit	Nauru only
31 Coalescing filter		Change every maintenance visit	Changed
32 Compressor oil		Change every maintenance visit	Changed
33 Pumpdown test		Valve V1 in vent position	3 min 16sec@ 600 kpa
Moisture			
34 Storage cylinder moisture vented		Every maintenance visit	20 ml
General			
35 Cleaning of electrolyser		[Cleaned
36 Cleaning of 'H' van		ſ	Nauru only

Leak Tests

37	Low pressure leak test between cells and gasholder	No greater than 2.5cms indicated by inlet manometer	ОК		
38	Low pressure leak between gasholder and compressor inlet valve	No greater than 2.5cms indicated by gasholder position	ОК		
Ma	nometer				
39	Inlet manometer fluid level	Level not less than + 1.0cms	ОК		
40	Outlet manometer fluid level	Level not less than + 1.0cms	ОК		
39	Gas tubes - 3/8" dia	Check condition for deterioration	Good		
41	Manometer tube exits	Check that they are not obstructed	Clear		
Saf	ety				
42	Safety signs prominently displayed		ОК		
43	Drench shower operates satisfactorily (water, temperature, pressure etc)		ОК		
44	KOH neutralising fluid	Sufficient acetic acid available	3 Litres		
	REMOTE BALLOON LAUNCHER				

Visual Inspection

l Operation of sliding door	OK
2 Operation of door catch (inside/outside)	ОК

3	Tension of rubber curtains			Good
	~			
4	Gas hose condition			Good
5	Earth system condition			Good
Safe	ety			
6	Safety signs prominently displayed			Good
Ren	note Launch Mechanisn	n Enclosure		
7	Watan annova anonata		1	
7	Water sprays operate satisfactorily			OK
	satisfactority			
8	Light in enclosure		1	
0	illuminates			OK
9	Flashing light and			
	audible alarm operates			OK
	satisfactorily			
	-			
10	Blower fan operates			OK
	satisfactorily			UK
11	Balloon release			
	mechanism and cable			OK
	not obstructed and			OIX
	operates satisfactorily			
Ιea	k Tests			
Lta	K I CSUS			
12	Balloon fill valve	RBL Technical	Determine increase in	
		Manual part 7 section	pressure after 60	Nil increase
		5.1	minutes	
13	Hydrogen pipeline and		Check pipes and	
	fittings	RBL Technical Manual part 7 section	fittings after operning	Nil leaks
		ivianuai part / section	1 11 611 1 6	INII ICANS

Regulator

balloon fill valve for

20 seconds

5.3

14 Regulator gas flow rate	RBL Technical Manual part 7 section 5.2	100kPa	98kPa
Earthing System			
15 Electrical supply earth resistance	RBL Technical Manual part 7 section 5.4		ОК
16 Lightning earth resistance	RBL Technical Manual part 7 section 5.5		ОК
Bung Inserter			
17 Check operation of bung inserter	Lubricate all moving components with synthetic lubricant containing PTFE		Lubricated

Other Comments

Water flow gage to be replaced when spare available

Equipment Spares Re-Order

Sediment Filter WaterFlow gage	41-DPPPC-1	10 Micron	

Officer : Troy Culgan

Date: 17-Feb-04

Station : Momote