

AFT BELL INTERNAL CHECK LIST				
Description		Action	Tick	
<b>Dive Number:</b>	<b>Date:</b>	Record		
Ensure "Black Box" HDD is Running, Volume Checked, Record Header		Check		
Valid PTW in Place & Permission to dive from bridge – DP Checks (Green Light?)		Check		
Set-up topside gas panel		Check		
Decrease pressure on Bell Blowdown Regulator to just less than bell pressure, check bell depth decreases – Prove check valve is operational (Check weekly)		Check		
Increase pressure on Bell Blowdown Regulator to more than 40Bar, check bell depth increases – Prove PRV valve is operational (Check weekly)		Check		
Set Surface Supply to Mara Panel at 15 Bar Above Ambient Bell Pressure		15 Bar		
Set Bell Blow Down / Dvr 3 to 19 Bar Above Ambient Bell Pressure		19 Bar		
Check and calibrate dive control analysers		Check		
Run hot water to bell 30 mins before bell checks		Check		
Reclaim:	Mix 8:	Record		
Mix 9:	Mix 10:	Record		
Bell PPO <sub>2</sub> :	Reclaim PPO <sub>2</sub> :	Record		
Bell CO <sub>2</sub> :	Reclaim CO <sub>2</sub> :	Record		
<b>ONBOARD BANK PRESSURES - PERCENTAGE: _____ ?</b>				
<b>OBG 1:</b>	<b>OBG 2:</b>	Record		
<b>OBG 3:</b>	<b>O<sub>2</sub> Bank:</b>	Record		
Spare BOB's Pressures:		Record		
<b>Bellman up to Bell – Setup Bell &amp; MARA Panel</b>				
Bottom Door "O" ring in good condition on entry		Check		
Check "Green Light" on hyper-gas and reading Zero to Less than 2		Check		
Fresh Soda Sorb Online x2 and One Sealed Spare		Check		
Switch Topside Panel Bell Power 1 & 2 OFF. Bellman to press green button to confirm battery power. Should have 1 light and 1 scrubber.		Check		
Switch Topside Panel Bell Power 1 & 2 ON. Should have 4 lights, 2 scrubbers and 2 heaters working as per normal		Check		
Confirm Comms to Bullhorn, Headset and Test Call Button		Check		
Operate and Check Sound Powered Phone		Check		
Operate and Check TWC on Surface		Check		
Check Hat Comms, Lights and Cameras to Dvr1 and Dvr2		Check		
Check Standby Divers Mask is in good condition		Check		
Diver 1 BOB:	Diver 2 BOB:	Record		
#	VALVE CHECKS	POSITION		
1	Onboard Bank 2 Hull Valve	Open		
2	Divers Surface Gas Supply Hull Valve	Open		
3	He/O <sub>2</sub> Pilotage Hull Valve	Open		
4	Onboard Bank 1 Hull Valve	Open		
5	Bell External Depth Hull Valve	Open		
6	Bellman Gas Supply Hull Valve	Open		
7	Onboard Bank 3 Hull Valve	Open		
8	Bell Internal Depth Hull Valve	Open		
9	Reclaim Exhaust Hull Valve	Closed		
10	Bell Blowdown Hull Valve	Open		
10a	Bell Blowdown – Spring Loaded - Tested	Closed		
11	Hot Water Hull Valve	Open		

12	Bell Flood and Bilge Drain Hull Valve	Open	
12a	Bell Flood Valve – Red Handle	Closed	
12b	Bilge Drain – Spring Loaded	Closed	
13	Diver 1 Buffer Tank Hull Valve	Open	
14	Emergency Bell Exhaust Hull Valve	Open	
15	Bellman Hot Water Hull Valve	Open	
16	Diver 2 Buffer Tank Hull Valve	Open	
17	Over Pressure Relief Valve	Open	
18	O <sub>2</sub> Buffer Tank - Needle Valve	Closed	
19	Bell Analysis Hull Valve	Open	
20	Medical Lock Equalisation Hull Valve	Closed	
	Med Lock – Closed and Secure	Check	
21	O <sub>2</sub> Supply - Needle Valve	Closed	
22	Diver 1 Pnuemo Hull Valve	Open	
23	Diver 2 Pnuemo Hull Valve	Open	
24	O <sub>2</sub> Pilotage Hull Valve	Open	
25	Hydraulic Valve at 6 o'clock on Pump	Closed	
26	Hydraulic Selector Valve – “OUTER / INNER”	Inner Position	
27	Inner Door Hydraulic Control Valve – On left	Open Position	
28	Outer Door Hydraulic Control Valve – On right	Open Position	
29	Diver 1 & 2 Reclaim Valves	Closed	
30	Top Valve on Water Trap (Bell Scrub Valve)	Open	
31	Bottom Valve on Water Trap	Open	
	Water Trap Plunger	Out	
32	Heater Dump	Open	
33	Hot Water Dump on Manifold	Open	
34	Comfort Hose Valve – Top of Manifold	Closed	
	Divers 1, 2 and 3 hot water supplies all secured	Closed	
35	Hot Water Dump Hull Valve (Behind D1 umbilical: bottom right)	Open	
36	Bottom Door Hydraulic “IN” (Behind D1 umbilical: bottom left)	Wired Open	
37	Bottom Door Hydraulic “OUT” (Behind D1 umbilical: bottom left)	Wired Open	
38	Bottom Door - Valve “A” inner - <b>Red</b>	Closed	
39	Bottom Door - Valve “A” outer - <b>Green</b>	Open	
40	Bottom Door - Valve “B” inner - <b>Green</b>	Open	
41	Bottom Door - Valve “B” outer - <b>Red</b>	Closed	
42	External Hydraulics for Inner Door (Behind door)	Wired Open	
	Test fairy lights	Test	
	<b>OXYGEN INJECTION CHECKS</b>		
1	Open O <sub>2</sub> Supply (Valve #21)	Open	
2	Open O <sub>2</sub> Buffer (Valve #18)	Open	
3	Expose and Open Valve “A” to fill O <sub>2</sub> Buffer Tank (Right)	Open A	
4	Close Valve “A” (Right)	Close	
5	Turn plate to allow access to valve “B” (Left)	Turn Plate	
6	Open valve “B” and empty buffer tank. Check flow at scrubber!	Open B	
7	Close Valve “B” (Left)	Close B	
8	Close Buffer Tank (Valve #18)	Close	
9	Close O <sub>2</sub> supply (Valve #21)	Close	

MARA GAS PANEL CHECKS – Check bell door valves are open!		
1	Close Dvr1, Dvr2 & Dvr 3, Emergency Blow Down and BIBS valves	Close
2	Back the 4 panel regulators right off	Backed Off
3	Open Surface Supply - Hull Valve #2	Open #2
4	Set Surface Supply Regulator to 13Bar (Inlet Pressure – Set by Supervisor - 15Bar – Top Gauge)	Set – 13Bar Check 15Bar
5	Check both indicating eyes: <b>GREEN</b>	Check Green
6	Check gas flow to: Dvr 1,2,3, Emergency Blow Down and BIBS	Check
7	Open OBG #1 – Hull Valve #4	Open #4
8	Set Emergency Supply Regulator #1 to 11Bar (Inlet Pressure 13Bar – Top Gauge)	Set – 11Bar Check 13Bar
9	Close Surface Supply - Hull Valve #2	Close #2
10	Open Dvr1 supply and vent line – OBG #1 will kick in	Open / Check
11	Left hand indicator: <b>RED</b>	Check Red
12	Check gas flow to: Dvr1,Dvr3, Emergency Blow Down and BIBS – Confirm that Dvr2 is isolated	Check/ Confirm Dvr2
13	Back surface supply regulator right off	Back Off
14	Open Surface Supply - Hull Valve #2	Open #2
15	Set Surface Supply Regulator to 13Bar	Set – 13Bar
16	Both indicating eyes: <b>GREEN</b>	Check Green
17	Back emergency supply regulator #1 right off	Back Off
18	Open OBG Supply #2 – Hull Valve #1	Open #1
19	Set Emergency Supply Regulator #2 to 11Bar (Inlet Pressure 13Bar – Top Gauge)	Set – 11Bar Check 13Bar
20	Close Surface Supply - Hull Valve #2	Close #2
21	Open Dvr2 supply and vent line – OBG #2 will kick in	Open / Check
22	Right hand indicator: <b>RED</b>	Check Red
23	Check gas flow to: Dvr 2,3, Emergency Blow Down and BIBS – Confirm that Dvr1 is isolated	Check / Confirm Dvr1
24	Back surface supply regulator right off	Back Off
25	Open Surface Supply - Hull Valve #2	Open #2
26	Set Surface Supply Regulator to 13Bar	Set – 13Bar
27	Set Emergency Supply Regulator #1 to 11Bar	Set – 11Bar
28	Check Emergency Supply Regulator #2 to 11Bar	Check – 11Bar
29	Check both indicating eyes: <b>GREEN</b>	Check Green
30	Open OBG Supply #3 – Hull Valve #7	Open #7
31	Set Bellman Panel Regulator to 15Bar (Inlet Pressure 19 Bar – Set by Supervisor – Top Gauge)	Set – 15Bar Check 19Bar
32	Close Surface Supply and OBG 1 & OBG 2 Hull Valves - # 2,4,1	Close – 2, 4, 1
33	Open Dvr1 & Dvr2 and vent lines. Both indicators go from <b>GREEN</b> to <b>RED</b>	Open 1 & 2 / Check for <b>RED</b>
34	Check gas supply to Bellman. Confirm bellman supply isolated from Dvr1 & 2, BIBS and BlowDown	Check / Confirm
35	Back the 4 panel regulators right off	Back Off
36	Open Surface Supply – Valve # 2 and Open Banks 1, 2, 3 – Valve #s: 4, 1, 7	Open #2 Open #4,1,7
37	Set Surface Supply Regulator to 13Bar Set OBG 1 & 2 Regulators to 11Bar Set Bellman Regulator to 15Bar	Check – 13Bar Check – 11Bar Check – 15Bar
38	Check both indicating eyes: <b>GREEN</b> - Panel is setup	Check Green

<b>BELL INTERNAL EQUIPMENT CHECKS</b>			
1	PPO <sub>2</sub> Meter	Check	
2	3 x Survival Suits & Re-breathers (Sealed and In Date?)	Check	
3	Drager Pump & Tubes (CO <sub>2</sub> , Toluene, Alcohol and Oil Hydrocarbons. All In Date?)	Check	
4	First Aid Kit and Neck Brace (In Date?)	Check	
5	Bell Emergency Tool Kit	Check	
6	Reclaim Set-Up, Emergency Procedures & Tapping Code Card	Check	
7	Diver's Recovery Hoists x 2. Good working order & correctly stowed?	Check	
8	Spare neck dam	Check	
9	Spare gloves	Check	
10	Spare spider	Check	
11	Spare hat liner	Check	
12	Spare Hazmat suits x 2	Check	
13	Spare set of comm's for 17's x 2	Check	
14	Spare set of comm's for 18 x 1	Check	
15	Spare 6m umbilical electrical sacrificial length	Check	
16	Spare "O" ring's for bailouts, bottom door and medical lock	Check	
17	Spare 1 <sup>st</sup> stage c/w whip and contents gauge x 2	Check	
18	Spare reclaim sacrificial hose's x 2	Check	
19	Contents gauge	Check	
20	Divers knives x 3	Check	
21	Fins and spare straps	Check	
22	Lead weights and bellman's weight cluster x 2	Check	
23	Dedicated spanners for the hat x 2	Check	
24	Working torches x 2 and spare batteries	Check	
25	PTFE / Duct Tape / Electrical Tape / Silicone Grease	Check	
26	20m Tape Measure / Paint Sticks	Check	
27	Snoop / Soap / Hat Wipes	Check	
28	Spare Enerpac Oil	Check	
29	Bellman is wearing a harness	Check	
30	Reminder to Divers to bring up Harness, Hat Liner, Gear, Food and Drinks etc	Reminder	
<b>ON BOTTOM – BELLMAN CHECKS</b>			
1	Connect Bellmans Umbilical to hat, plug in Marsh Marine		
2	Close Bell Blow Down Supply - Hull Valve #10	Close #10	
3	Open Bellman Panel Supply, flush hat – Check inlet pressure drop to 17b and ensure good flow from OBG #3 – Secure flushing	Check Flow	
4	Close Bellmans Panel Supply	Close	
5	Open Bell Blow Down Supply - Hull Valve #10	Open #10	
6	Open Bellman Panel Supply, flush hat – Check inlet pressure has climbed back to 19b and ensure good flow from Bell Blow Down Supply – Secure flushing	Check Flow	
7	Check Bellman Comm's, Hot Water and Pneumo		
8	Bellmans gear ready		

MID WATER DIVING – EXTERNAL BELL DOOR CHECKS			
Bellman instructed to close the external door			
V/V	Description		
26	Hydraulic door selector (inner / outer)	Outer	
28	Outer door hydraulic control valve	Closed	
	Pump door to close		
<b>Standby Diver to Confirm Outer Door Valve Status</b>			
	Outer Door - Valve "A" Inner	Closed	
	Outer Door - Valve "A" Outer	Open	
	Outer Door - Valve "B" Inner	Open	
	Outer Door - Valve "B" Outer	Closed	
<b>Once the external door is closed and dogged</b>			
26	Hydraulic door selector (inner / outer) to inner	Inner	
27	Inner door hydraulic control valve to Closed. ( <b>VERTICAL POSITION</b> )	Closed	
<b>The above is to be carried out when the bell has locked off and before leaving the surface</b>			
<b>On completion of the door opening or closing sequence for either the inner or outer door the following valves shall be reset.</b>			
26	Hydraulic door selector (inner / outer) to Inner	Inner	
27	Inner door hydraulic control valve to Closed. ( <b>VERTICAL POSITION</b> )	Closed	

<b>NAME:</b>	
<b>SIGNATURE:</b>	
<b>TIME:</b>	
<b>DATE:</b>	