

# **APPENDIX XXIII**

## **DEEP TOW STATUS**

1 2 3 4

**SPECIFICATIONS: DEEP TOW WIRELINE RE-ENTRY/ CONTROL VEHICLE**

**PHYSICAL DIMENSIONS:** 26in. x 26in. x 10ft. (w.o. termination)

**WEIGHT IN AIR:** 2000lbs

**WEIGHT IN WATER:** 1000lbs

**SURFACE POWER:**

INPUT (FROM SHIPS POWER): 240/480 VAC, 1Ph., 60 HZ, 10KVA (INTO SURFACE TRANSFORMER)  
OUTPUT (INTO MAIN CABLE): 2300VAC, 1Ph., 60HZ

**CV POWER (MAIN TRANSFORMER):**

INPUT (FROM MAIN CABLE)2300VAC, 1Ph., 60HZ  
OUTPUT220VAC, 110VAC, 1Ph., 10KVA

**OPERATIONAL DEPTH:** 6000m

**NAVIGATION:** LONG BASELINE TRANSPONDER TRANSCEIVER:  
INTERROGATE AT 8KHZ - 15.5KHZ IN 0.5KHZ STEPS  
RECEIVE AT 12KHZ

**PROPULSION:** 2 INNERSPACE THRUSTERS (MODEL 1001) ORTHOGONALLY MOUNTED  
AND HYDRAULICALLY POWERED FROM 5HP INDUCTION MOTOR  
100lbs NOMINAL MAXIMUM THRUST

**VIDEO:**

- SONY B/W CCD CAMERA (768x494 PIXELS) WITH WIDE ANGLE LENS IN DEEP SEA POWER & LIGHT TITANIUM HOUSING
- 2 AXIS PAN AND TILT (REMOTE OCEAN SYSTEMS MODEL PT10-412) WITH COMPASS AND TILT SENSOR
- SONY 8MM VHS VCR W. DATE AND TIME STAMP AT THE CONTROL VEHICLE W. ON/OFF CONTROL AT SURFACE
- 256x256 VIDEO DISPLAY AT SURFACE EVERY .7SEC

**LIGHTS:**

- 4 x 250W Deep Multi-SeaLites (DSP&L)
- 1 x 250W TI LIGHT (DSP&L)
- 1 x 150W QUARTZ LIGHT (DSP&L)

**SONARS:**

- 23.5KHZ NARROW BEAM UP LOOKING SONAR
- 23.5KHZ NARROW BEAM DOWN LOOKING SONAR
- 325KHZ SECTOR SCANNING SONAR (TRITECH)  
W. 200m MAXIMUM RANGE AND COMPASS CORRECTED  
COLOR CODED RADIAL DISPLAY

**TELEMETRY:**FREQUENCY DIVISION MULTIPLEXED FSK, PSK, FM, AM  
BANDWIDTH UTILIZATION: 10KHZ - 800KHZ(ON STANDARD .690 TOW CABLE)

**RELEASE CAPABILITY:** STANDARD 5K OR 10K lbs INTEROCEAN RELEASE  
ACTIVATED FROM SURFACE

**USER INTERFACE:**

- STANDARD POWER: 110/220VAC, 1Ph., SHARED W. CV UP TO 10KVA TOTAL
- DOWNLINK: 1CH, RS-232, 9600 BAUD
- UPLINK: 1CH, RS232, 9600 BAUD  
1CH, RS232, 2400 BAUD

Title		SPECIFICATION SHEET: WLR VEHICLE	
Size	Number	Revision	
A	WLR_SPEC.SCH		
Date:	27-Nov-1996	Sheet of	
File:	C:\PROJECTS\WLR\SYSTEM\WLR_VEHICLE.SCH	1 of 1	