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Presentation Manual

Technical Manuals



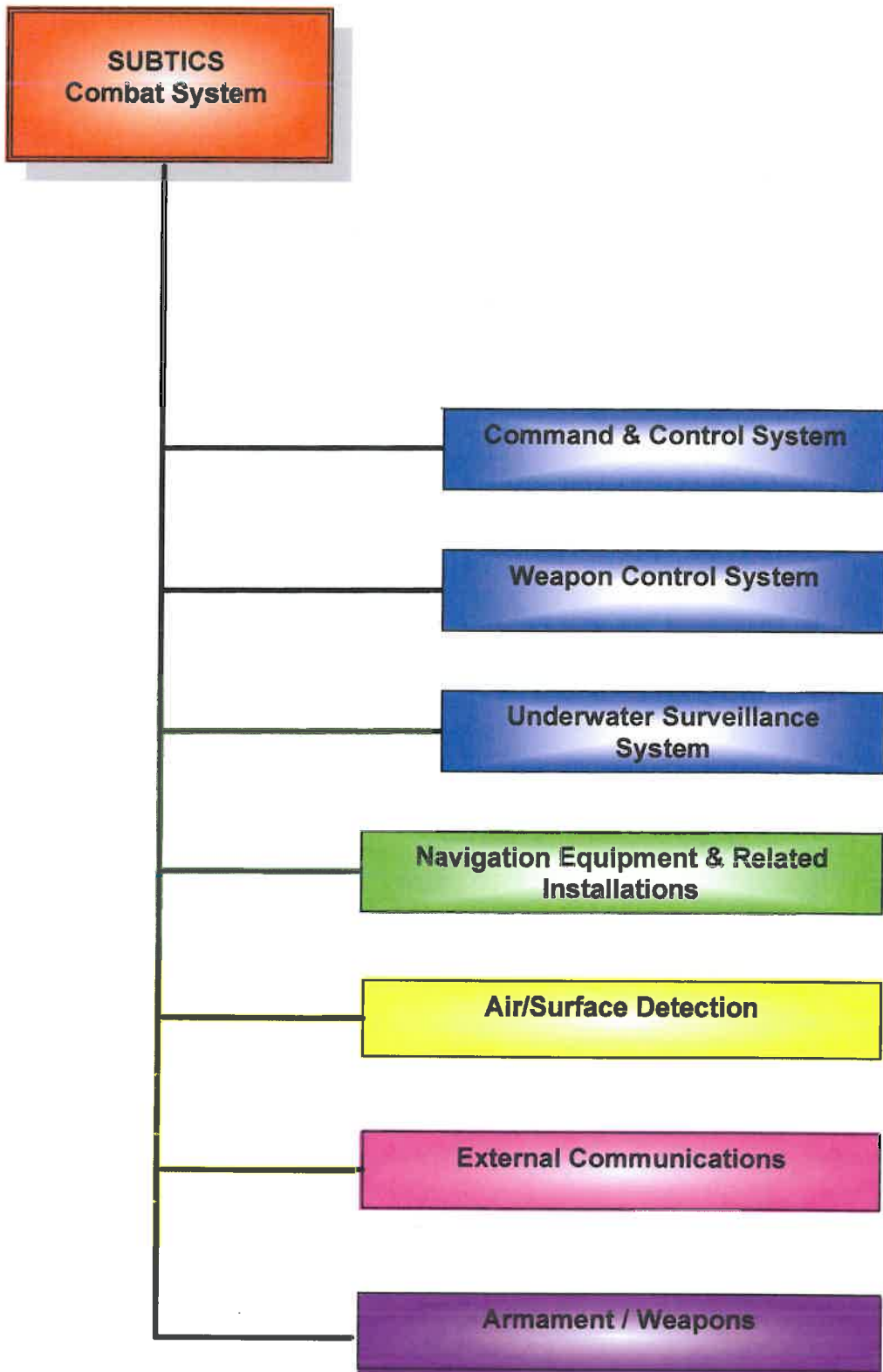


Figure 1-1: Combat System Overview



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FIGURE 1.2 – GENERAL VIEW OF THE CYLINDRICAL ARRAY

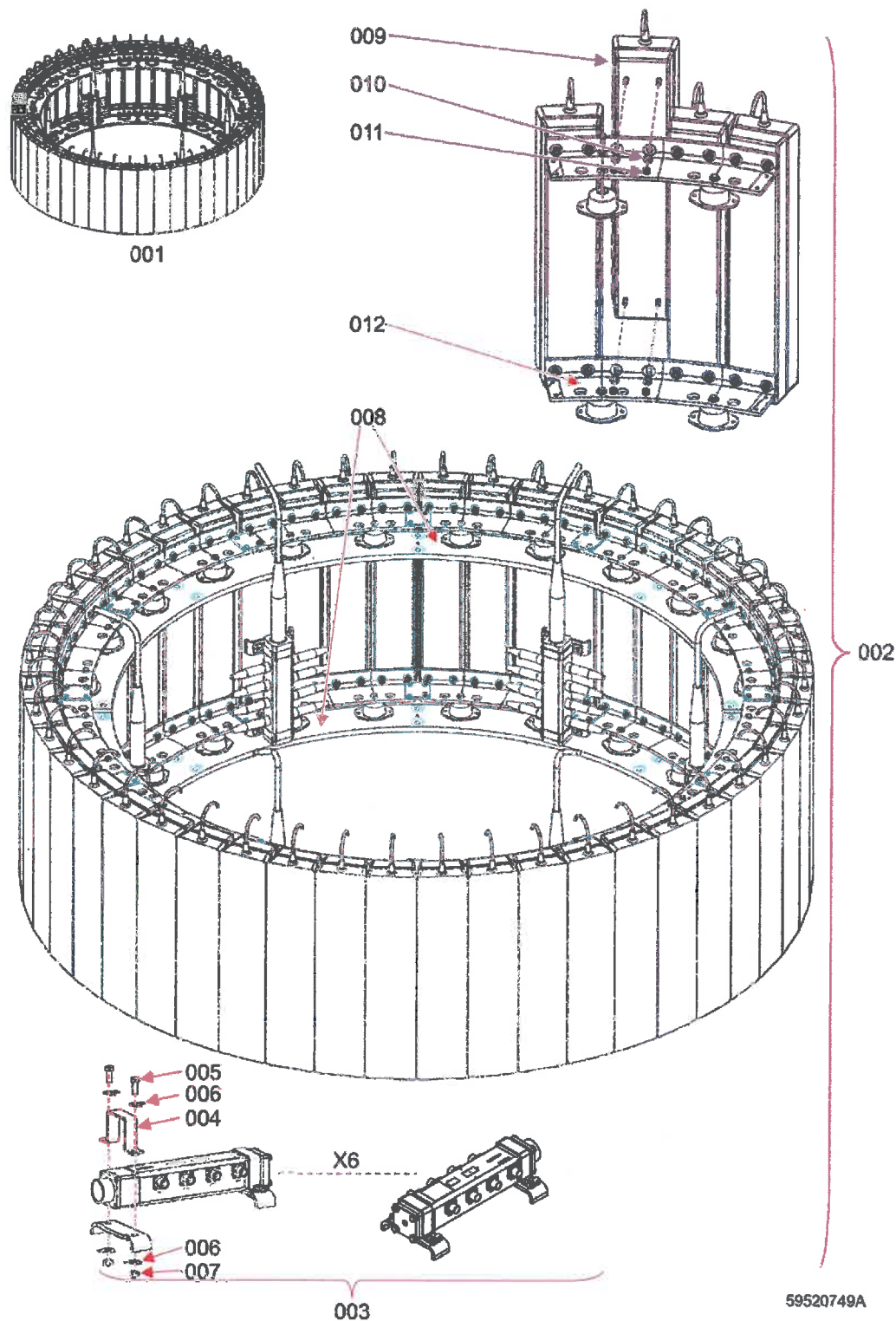


FIGURE 6.1 - CYLINDRICAL ARRAY (CA)

1.2.2 - INSTALLATION CHARACTERISTICS**1.2.2.1 - Mechanical**

PARAMETERS	VALUES (TYPICAL)
Total weight in air	2500daN
Total weight in water	1700daN
Support interface	2048mm diameter (1030mm upper/lower flanges)

1.2.2.2 - Electrical

PARAMETERS	VALUES (TYPICAL)
Power supply	16VDC (14.7V to 17.3V)
Power consumption	50W
Current consumption of each stave	27 mA \pm 6 mA
Interface	6 connectors RECM 24MT6116 (61 pins) (F6131)

1.2.2.3 - Cooling

Not applicable.

1.2.2.4 - Environmental

PARAMETERS	TYPICAL VALUES
Operating temperature in water	+2°C < T < +32°C
Storage temperature in air	-10°C < T < +40°C
Hydraulic operating pressure	P \leq █ Mpa
Maximum pressure	P \geq █ Mpa

1.2.3 - OPERATIONAL CHARACTERISTICS

PARAMETERS	POWER	ΔT	TYPICAL VALUES
Transmission frequency			██████████
Transmitted pulse length			██████████
Impedance (for each stave)	4000W	F = █████ kHz	Z = 40 Ω \pm 30%
Bearing arc (horizontal)			██████
Elevation arc (vertical)			██████
Sound level (inside stave acoustic axis) Reference: 1 μ Pa at 1m	4000W	F = █████ kHz	\geq █████ dB
		F = █████ kHz	\geq █████ dB
		F = █████ kHz	\geq █████ dB
Sound level (outside stave acoustic axis) F = █████ kHz Reference: 1 μ Pa at 1m	4000W	$\Theta = \pm 30^\circ$	\geq █████ dB
		$\Theta = \pm 60^\circ$	\geq █████ dB
		$\Theta = \pm 70^\circ$	\geq █████ dB
Vertical directivity (at - 3dB)	4000W	F = █████ kHz	\geq █████

2.1 PHYSICAL DESCRIPTION

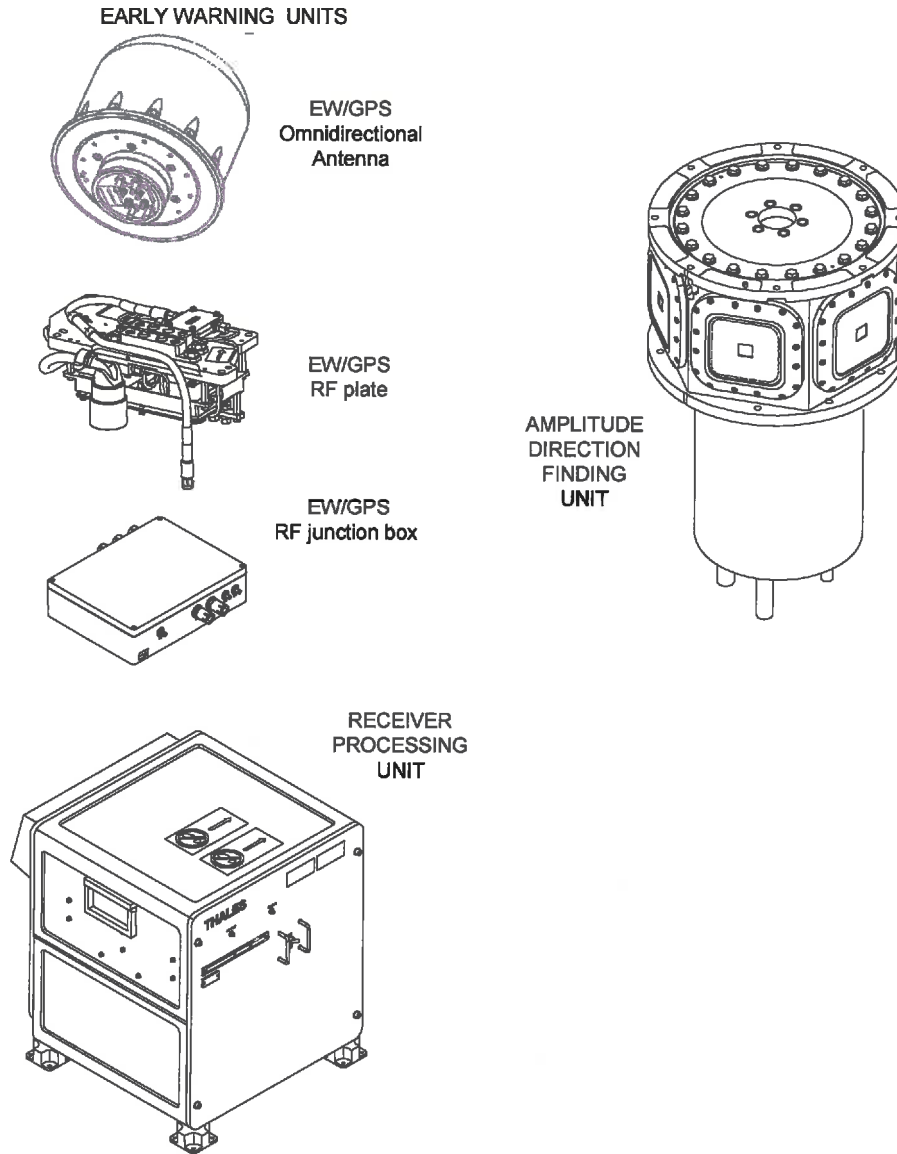


Figure T2-1: RESM Architecture



**INDIAN NAVY
SCORPENE
SUBMARINE**

OIM-CS-05-A

OPERATING INSTRUCTION MANUAL

COMBAT MANAGEMENT SYSTEM

- The functional status of the Optronic mast equipment: "SOM",
- The functional status of the attack periscope equipment: "APS",
- The functional status of the RESM equipment: "RESM".



Figure 4-19: PMFL – "SYSTEM SYNOPTIC" – "Sensors zone" details

4.1.3.1.2.4 "COMMAND AND WEAPON CONTROL" zone

This zone includes 16 main graphical elements:

- objects that represent the launching capability per tube, SUT launching capabilities and SM39, the synthetic status of which being indicated by the color of the graphical object.
- 1 torpedo firing installation, represented by 6 tubes that display the following information:
 - The tube status and the status of the weapon in the tube, indicated by the tube image.

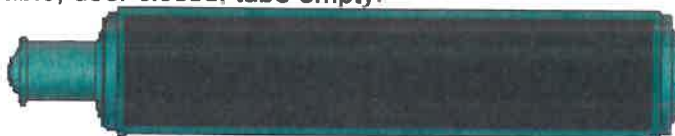
Tube available, door closed, tube full.



Tube available, door closed, tube being filled-in.



Tube available, door closed, tube empty.



RESTRICTED SCORPENE INDIA

SSTM-CS-08-A
Revision: 01



BAR CODE (TBD)

INDIAN NAVY
SCORPENE SUBMARINE

SSTM-CS-08-A

SUB SYSTEM TECHNICAL MANUAL

EXTERNAL COMMUNICATIONS

Status: Final

2.2.2.3.2 V/UHF Tx - Rx subsystem

This subsystem allows voice communication at periscope depth or when surfaced and consists of:

- one commercial civilian radio maritime radio communication link in the frequency range 150.8 MHz-163.6 MHz in audio (in compliance with GMDSS),
- two V/UHF transceiver integrated in the console RH02531,

The GMDSS functions are realised through the maritime VHF transceiver that has the Digital Selective Calling (DSC) capability with a watch receiver.

This VHF radio maritime equipment complies with GMDSS specifications.

2.2.2.3.2.1 VHF Radio maritime RT 5022 GMDSS

The RT 5022 is a synthesized, microprocessor-controlled VHF transceiver providing a full capability ship-to-ship and ship-to-shore VHF communications link in the 149.3 - 163.75 MHz range.

It is equipped with all international maritime VHF channels, plus a choice of up to 30 private channels.

The unit has built-in DSC (class A) capability, therefore avoiding the need for a separate receiver/modem.

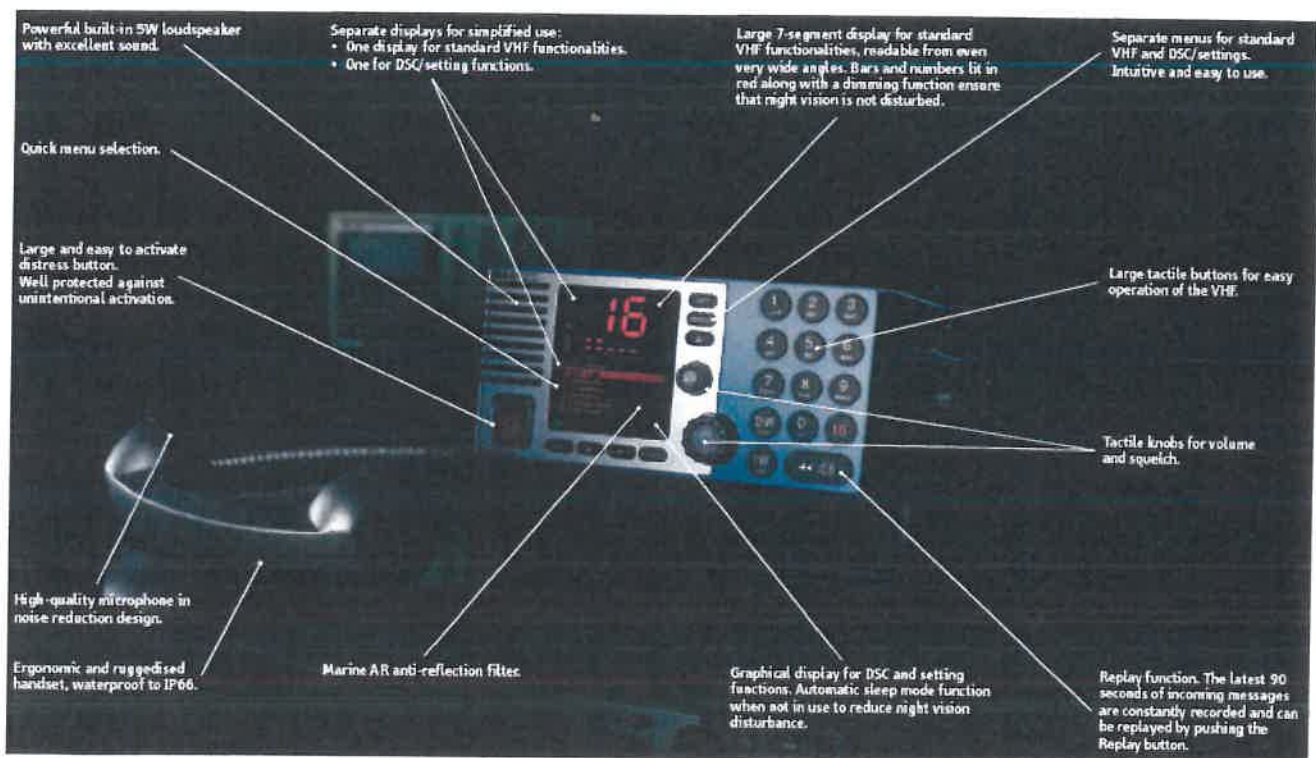


Figure 2-26: VHF Radio maritime transceiver RT 5022