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A-RCI Phase I systems have been replaced by Phase II upgrades on SSNs 710 and 724. All FY98 production Phase II kits were procured with COTS hardware compatible with processing basic A-RCI software through TA APB-98. Phase II kit deliveries made to ships without OA-9070A thinline handlers, will be made at TB-23 processing capacity (e.g., one drawer of the MPP will not be populated). Phase II kits procured in FY99 will be TA-APB 98 & 99 software compatible.

1.2.2 Towed Array Record/Playback Unit (TARPU) Overview

The Towed Array Record/Playback Unit (TARPU) provides the fleet with a valuable training tool. Pre-recorded towed array data is played into the system for operator training on real world acoustic environments and signal/target recognition. Additionally the TARPU allows for recording of a towed array for future training and evaluation.

The TARPU consists of a ruggedized Commercial-off-the-Shelf (COTS) structure that houses a tape drive that uses an AIT drive for data storage, a single board computer for control and a disk drive as software load point. TARPU control and data exchange is over a dedicated fast Ethernet link with the Towed Array Multi-Purpose Processor (TA-MPP).

The TARPU physical characteristics are as follows:

- Enclosure: ELMA 5R2 19" Rack Mount
- Power: 115 VAC single phase
- Cooling: Air cooled (internal fan)
- Digital Interface: 100 Base T Fast Ethernet.

The TARPU is installed in the Combat Systems Equipment Space (CSES). For the SSN 688I and SSBN 726 Class Submarine it is installed in a deck mounted 19" rack assembly.

For the SSN 688 Class Submarine, the TARPU is mounted in a dedicated rack that is suspended from the inner-wall overhead in the CSES.

1.2 Conclusion

The TARPU meets all requirements of the Environmental Qualification sections of the COMMON SPEC with the exception of structureborne noise. Several design iterations were pursued to minimize the levels to the greatest extent possible. NAVSEA is currently evaluating a waiver.

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