

attempted to make major repairs to equipment casualties that occurred during DF-74. The time allowed to make these repairs was minimal due to the granting of leave and liberty, personnel transfers, change of command and schooling.

(b) Condition upon departure. With a lot of assistance from District (eee), the STATEN ISLAND left Seattle believing that the electronics was 100% operational. We were unable to check the AN/SPS-45 due to no LORAN-C stations in the area and no LORAN-C signal simulator available.

(c) Condition upon return. The STATEN ISLAND arrived in Seattle with all electronic equipment 100% operational and ready for decommissioning. All equipment has been PMed, and all test equipment, tools and other pilferable items have been moved to secure storage areas.

## (2) Specific areas.

(a) Communications equipment. No major failures occurred in this area. The AN/SRA-47 antenna couplers were a constant source of problems during the first few weeks, due to inexperienced operators. Later in the trip, with proper training, this ceased to be a problem.

### (b) Radar and IFF.

1 As in the past the AN/SPS-10B surface search radar proved to be an outstanding radar and caused no problems.

2 AN/SPS-6C worked well but it is old and will require extensive maintenance if it is to be used on another ship.

3 IFF equipment was unreliable during the first half of our trip due to many bad cables and problems with the AN/UPM-70 test set. Many hours were spent on the gear and it is now fully operational.

4 AN/SPS-53H. Much time was spent rewiring and reworking the modulator and sweep circuitry. It is expected that this will be a fine radar if used elsewhere.

### (c) Navigational equipment.

1 AN/SRN-9 Satellite receiver was outstanding with no problems. Only occasional reprogramming was necessary due to major power fluctuations.

2 The AN/SPN-45 Loran C receiver was found to be inoperative as we entered the Loran-C coverage area. Subsequent investigation showed that the Loran-C antenna had been mistakenly removed in September 1973 during the installation