



*Marine Stabilized Antenna Systems*

Declaration of Sea Tel, Inc.

1. Sea Tel designs, develops, manufactures and services marine stabilized antenna systems for satellite communications at sea. CapRock Communications, Inc. proposes to use the Sea Tel Model 4003A, Model 4006, Model 4996T and Model 9797 antenna systems as part of its Ku-band Earth Station on Vessels ("ESV") network.
2. The Sea Tel Model 4003A and 4006 antennas, referenced in paragraph 1, will meet the off-axis EIRP spectral density envelope set forth in FCC 47 C.F.R. § 25.222(a)(1)-(4) when the input power to these antenna systems is limited to  $-17.9$  dBW/4kHz.
3. The Sea Tel Model 4996T antenna, referenced in paragraph 1, will meet the off-axis EIRP spectral density envelope set forth in FCC 47 C.F.R. § 25.222(a)(1)-(4) when the input power to the antenna system is limited to  $-17$  dBW/4kHz.
4. The Sea Tel Model 6006 and 9797 antennas, referenced in paragraph 1, will meet the off-axis EIRP spectral density envelope set forth in FCC 47 C.F.R. § 25.222(a)(1)-(4) when the input power to the antenna system is limited to  $-14$  dBW/4kHz.
5. The Sea Tel antennas referenced in paragraph 1 will maintain a stabilization pointing accuracy of better than 0.2 degrees under specified ship motion conditions. All current production antennas have FCC compliant supervisory software installed that continuously monitors the pedestal pointing error and will trip an error flag whenever an unexpected event occurs that causes the instantaneous pointing error to exceed 0.5 degrees. This flag will not clear until the pedestal error decreases to 0.2 degrees or less. The state of this flag is relayed to a "Transmit Mute" output of the Sea Tel below decks controller. The response time for the "Mute" output from detection to signaling is 50 milliseconds, nominal. By connecting the "Transmit Mute Output" of the Sea Tel below decks controller to the "Mute Input" of the satellite modem, the provisions of FCC 47 C.F.R. § 25.222(a)(7) are satisfied.
6. Sea Tel maintains all relevant test data, which is available upon request, to verify these declarations.

Executed on:

10/20/06

By:

Peter G. Blaney  
Vice President, Engineering  
Sea Tel, Inc.