



REGATTA NOTICE # 37

10 April 2006

To: All Competitors, 32nd America's Cup

From: Dyer Jones, Regatta Director

Cc: Measurement Committee
AC Management, Host Broadcast, TWI, Pilotfish, ARL

Subject: Video, Audio, Telemetry, and Umpire System Equipment and Installation

Ref. Protocol Article 17
Regatta Notices # 14 & # 33
Drawing AFED-LVA2006 Rev. F dated 7-04-06 (attached)

Note: This Regatta Notice will be referenced in and may be amended by the Notices of Race and/or Sailing Instructions for the Event as published or amended from time to time.

INTRODUCTION

This Regatta Notice and its attachments provide information and instructions concerning the Video, Audio, Telemetry, and Umpire Signal System Equipment that may be provided and/or installed on each ACC yacht by AC Management.

1. IN GENERAL

- a. AC Management may specify that the equipment noted in Attachment A is to be installed on each competing ACC Yacht to facilitate the transmission of video, audio, positional, and wind information from each yacht.
- b. Competitors shall permit the installation of and not interfere with the daily maintenance, testing, and normal operation of all supplied equipment and wiring. This includes reasonable, scheduled access to each Competitor's base compound and each competing ACC Yacht by AC Management authorized and credentialed technical personnel.
- c. With certain exceptions, all of the equipment and wiring will be supplied by AC Management or its authorized contractors. The Aerial Frame and the "Broadcast Box" compartment are to be fabricated and installed by Competitors as set out in Regatta Notice # 33.

- d. Batteries to power the telemetry, audio and video equipment may be provided by AC Management. Competitors may be required to ensure that all batteries are fully charged for each day of racing. The Measurement Committee may specify the location(s) where batteries are to be mounted.
- e. Under no circumstance is any equipment (including all wiring and connectors) supplied by AC Management or its authorized contactors to be cut or altered without the consent of the Measurement Committee.
- f. All equipment installed on the yacht, including cameras, batteries, Aerial Frame, transmitter boxes, compass, etc, required by AC Management for the production of telemetry, television and audio signals shall be considered "outside" of measurement. That is, the equipment shall not be included in the weight of the yacht in the calculation of rating, nor be present at flotation (except with permission of the Measurement Committee), and an allowance will be given for the equipment's weight at any post-race measurement.
- g. The wiring, connection and installation of the various pieces of equipment specified are to be carried out at the direction of AC Management and the Measurement Committee. The equipment carried by each yacht will vary from day to day depending on broadcast requirements. If, on a particular day, only one or more yachts of a race are fitted with cameras and/or equipment, the other yacht(s) shall carry corrector weights in lieu of operational cameras and/or equipment. Both yachts in a race may be required to carry corrector weights even if neither is carrying cameras or other equipment, if one or both are scheduled to race another opponent with such equipment in a subsequent race that day.
- h. All equipment and installations are subject to inspection by members of the Measurement Committee.

2. TELEVISION CAMERAS

- a. Up to six video cameras may be fitted to each yacht.
- b. Each camera is to be fitted with quick connect mounts and couplings to enable it to be easily installed and removed from the yacht and the wiring permanently installed in the yacht.
- c. Up to two cameras may be fitted on the main boom. Wiring access into the interior of the yacht shall be via the vicinity of the gooseneck and deck partner area.
- d. Up to two cameras may be fitted to the Aerial Frame at the stern of the yacht. Wiring access into the interior of the yacht shall be via a watertight gland adjacent to the Aerial Frame stanchion base.

3. AUDIO TRANSMISSION

- a. Each yacht may be fitted with up to six wired microphones and three wireless microphones. Transmissions from the wireless microphones are to be received by

a dedicated aerial mounted on the Aerial Frame. Feed from this aerial and the wired microphones is to be led to an AC Management supplied audio mixer receiver/transmitter box. The audio signal is to be transmitted from this box or an antenna on the Aerial Frame.

4. TELEMETRY AND WIND DATA TRANSMISSION SYSTEM

- a. Telemetry and wind data transmission system aerials are to be mounted on the Aerial Frame and led to the DGPS receiver.
- b. Serial data limited to the wind speed and direction, and the magnetic compass heading is to be back-fed to the telemetry transmission system. This information is to be integrated with the DGPS positional information and supplied to the telemetry transmission equipment. The transmission signal is to be led to the Aerial Frame for transmission from the yacht.

5. UMPIRE SIGNAL SYSTEM

- a. The Umpire Signal System consists of a Control Unit (in a Model 1300 Pelican Case, the Display Unit, and a Modem Unit with antenna which mounts on the Aerial Frame. Power is provided by the Competitor's ship service battery.
- b. The Yacht Control Unit is to be installed in the compartment required in ACC Rule 20.7. The Yacht Display Unit may be located at the discretion of each Competitor. The remaining USS equipment is to be installed in accordance with the instructions of Pilotfish AB as issued and approved by the Chief Umpire.
- c. The functions and operation of the system will be as determined by the Chief Umpire.
- d. The Umpire Signal System will not be used for fleet racing regattas.

6. AERIAL FRAME & BROADCAST BOX

The Aerial Frame and the "Broadcast Box" compartment are to be fabricated and installed by Competitors as set out in Regatta Notice # 33. Competitor's antennae which are placed on the Aerial Frame must be located at least 20cm from AC Management supplied equipment.

Issued by:

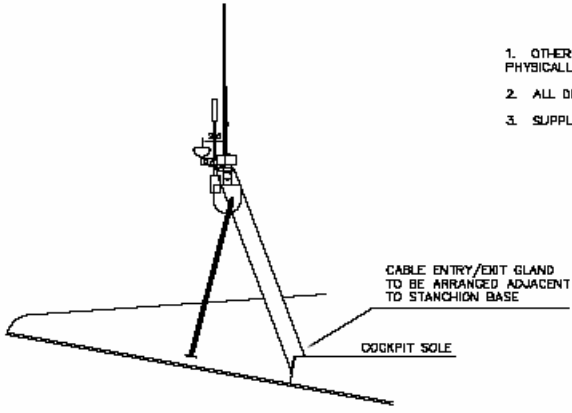
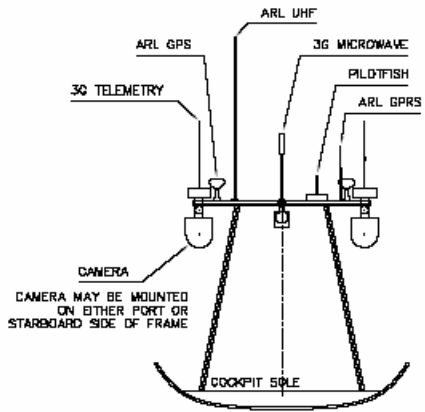
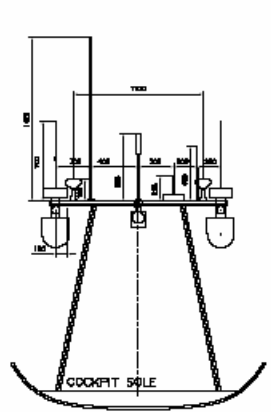
Wm. H. Dyer Jones
Regatta Director
32nd America's Cup

ATTACHMENT A

Broadcast & Telemetry Equipment

The On-board Broadcast & Telemetry Equipment may include, but is not limited to:

- 1x Aerial Frame (“AF”) for the mounting of specialized AC Management supplied equipment.
- 2x GPS Unit and associated aerials mounted on AF.
- 2x Data Transmission Aerials mounted on AF.
- Power supply and equipment box for GPS Data and associated transmitter mounted below decks at a location to be agreed by the ACC Technical Director.
- 2x Microwave Transmission Antenna mounted on AF.
- 2x TV Camera Telemetry Antennae mounted on AF.
- 2x TV Remote Cameras mounted on AF.
- 4x TV Remote Camera Control Boxes and associated power supply mounted in Broadcast Box.
- 2x Microwave and Audio Transmission Boxes mounted below decks at a location to be agreed by AC Management.
- Power supply for Microwave and Audio Transmission Boxes mounted below decks at a location to be agreed by AC Management.
- 2x TV Remote Cameras mounted on boom at a location to be agreed by AC Management.
- 3x Radio microphones to be worn by crew members and or the “18th person”.
- 6x Effects microphones placed on deck of race yacht at locations to be agreed by AC Management
- The Umpire Signal System, with associated aerial mounted in the AF.
- Associated cabling for above equipment, which shall be of approximately equal weight and length. No wiring or connectors are to be altered or cut without the consent of AC Management.



NOTES

1. OTHER AERIALS MAY BE MOUNTED ON THE AERIAL FRAME BUT ONLY IF THEY DO NOT INTERFERE PHYSICALLY AND ELECTRONICALLY WITH THE ACM EQUIPMENT, TRANSMISSION AND RECEPTION
2. ALL DIMENSIONS IN MILLIMITRES
3. SUPPLIED CABLES SHALL NOT BE CUT BUT MAY BE COILED TO SUIT INSTALLATION

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