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	Full Scale Measurements Speed and Power Trials Trial Preparation	Effective Date 2002	Revision 01

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Trial Preparation

1. PURPOSE

The purpose of this procedure is to document the trial preparation prior to the conduct of a full-scale Speed/Power trial.

2. SCOPE

This procedure applies to specific procedures used in trial preparation prior to the conduct of full-scale Speed/Power trials.

3. RESPONSIBILITIES

- The Trial Director is the duly authorized shipbuilder's representative responsible for the execution of all phases of the Speed/Power trials including the pre-trial preparation.
- The shipbuilder is responsible for the overall trial coordination between the ship's crew, trial personnel, and the owner representative. A pre-trial meeting between the trial team, owner and the ship's crew will be held to discuss the various trial events and to resolve any outstanding issues.
- The trial team is responsible for the following:
 - a. Conduct ship inspection in accordance with Speed/Power Trial Ship Inspection 7.5-04-01-01.2.
 - b. Provide, install and operate all required trial instrumentation and temporary cabling.
 - c. If necessary, arrange for divers to inspect the ship's hull and propellers in accordance with Hull and Propulsor Survey 7.5-04-01-01.3.
 - d. If previously arranged, provide the ship master and owner's representative with

a preliminary data package before debarking. The contents of the data package will be determined by consultation with the owner's representative at the initial pre-trial briefing.

- e. Provide a final report after completion of the trials in accordance with any agreement between the shipbuilder and the ship owner.

4. DEFINITIONS


None

5. PROCEDURE

5.1 Ship's Crew Support Requirements

Prior to the trials a period of time pier-side is needed to install the required instrumentation. The trial team will need the assistance of the ship's or shipbuilder's crew during this period. This support will be required when making electrical connections to ship's systems and circuits such as heading, wind speed, wind direction, and rudder angle synchro repeaters. The following support is requested from the ship's crew to properly prepare for the trials:

- a. Provide a point of contact to coordinate ship's crew participation in pre-trial evolutions.
- b. Provide pier-side access to the ship for trial instrumentation.
- c. Close coordination will be required before, during, and after the installation to define and address ship's concerns and requirements. Assign a qualified technician to inspect and

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approve all trial equipment installations and cable runs.

- d. Assign a qualified technician to designate, inspect, and approve all trial connections to ship's equipment. Required connections are as follows:
 - Gyrocompass heading
 - Relative wind direction
 - Relative wind speed
 - Rudder angle indicator, port and starboard
 - EM Log Speed
 - Propeller Pitch, Port & Starboard, if available
- e. Vary the output level of each of the above measurement sources to ensure the proper operation and alignment of the test instrumentation. This is accomplished by:
 - slewing the gyrocompass,
 - moving the rudder to different positions,
 - moving the Dummy speed log, and
 - changing the propeller pitch.
 - A hot pitch calibration will be conducted underway.
 - The shafts will need to be rotated on the turning gear to zero the torsionmeters prior to getting underway.
 - The ship's draft measurement system needs to be verified prior to getting underway for trials, by directly reading all draft marks, seawater temperature, specific gravity and the internal draft system at the same time.

5.2 Space Requirements

1. Air-conditioned spaces and an electric supply adequate for the trial equipment will be required for the trial instrumentation and computers. These positions are trial watch stations, and will be manned for the duration of sea trials. A complete listing of specific space requirements follows:
 - a. If requested, provide desk space on the bridge for the Trial Director for the duration of the trial.
 - b. Provide space for a remote monitor on the bridge for the use of the Trial Director.
 - c. Provide space for data collection and analysis computer(s) and their operator(s).
 - d. Provide space for data collection and signal conditioning equipment.

6. REFERENCES

1. Speed/Power Trial Ship Inspection 7.5-04-01-01.2
2. Hull and Propulsor Survey 7.5-04-01-01.3

7. RECORDS

None

8. ATTACHMENTS

None