TECHNICAL BULLETIN

ELECTRICAL MOTOR NOISE

PRODUCT ALL SEAKEEPER STABILIZERS

PURPOSE

This bulletin guides the investigation of higher-than-normal electrical motor noise emitted from the Seakeeper enclosure.

BACKGROUND

Occasionally, abnormally high motor noise may be heard when the Seakeeper spools up or coasts down. At normal operating speed, abnormal electrical motor noise should dissipate and the Seakeeper should emit noise levels within its specified range.

Electrical motor noise levels can vary based on the following factors:

- Specific installation applications can excite the electrical motor and the Seakeeper's natural frequency, and in some applications, the electrical motor frequencies can become amplified.
- Cutting power or turning the Seakeeper breaker off during coast down can also excite and elevate the motor noise, which can be avoided if power is left on to the Seakeeper unit(s) during this time.

Elevated electrical motor noise does not indicate any failure or imminent failure and is a normal occurrence that does not affect regular operation or performance. If abnormal or unwanted noise is present at operating speed (max rpm), perform the steps below to evaluate the noise.

PROCEDURE

1. **MINIMIZE** background noise as much as possible (e.g., no talking, secure engines, and fans). (NOTE: If engines cannot be secured on sea trial, it is acceptable to wait until at dock.)
2. **ENSURE** Seakeeper is operating at full RPM.
3. **RECORD VIDEO** of Seakeeper with smartphone for minimum of 30 seconds at 3 ft (1 m) distance from Seakeeper.
4. **SAVE AND SEND** uncompressed recording video via email or file sharing application to Seakeeper Product Support Team at support@seakeeper.com for engineering analysis.