R/V Kestrel Paint and Preparation Specifications

All paint and preparation work will adhere to these specifications unless a specific work item specifies otherwise.

Surface Preparations

The following shall apply to any painting work associated with ANY Work Items described herein.

- Surface preparation shall be defined by the Steel Structures Painting Council (SSPC). Visual Standard SSPC-VIS-1-89 will be used to judge the adequacy of surface preparations.
- All sharp edges, weld splatter, temporary fittings, etc. shall be removed so that no projections, burrs, or sharp edges exist which would penetrate the coating film.
- Surface preparation for new work may be accomplished before or after fabrication at the discretion of the Contractor.
- Prior to the application of coatings, all surfaces shall be dry and free of foreign matter such as dirt, dust, crayon marks, grease, mill-scale, residual abrasive, rust, salt deposits and weld spatter.
- Welds and piping system joints or connections requiring pressure or water testing, or visual inspection shall not be coated until after all tests and inspections are complete and the weld, piping joint or connection has been accepted by the Owner Representative.
- Faying surface of steel to steel, except when closed by continuous welding, shall receive two coats of primer on each surface prior to connection.
- Scuppers and drains shall be sealed or extended as required to prevent moisture or water contamination on coated surfaces during the drying period.
- New and exposed steel surface shall <u>not</u> be left more than six (6) hours without primer. Should freshly blasted steel be left unprimed, the Contractor shall re-blast to the originally required quality, removing all traces of rust bloom prior to applying primer.
- Contractor shall take care to protect all adjacent areas so as not to damage them with sandblasting agents, weld spatter, paint overspray, other chemical damage or damage from any other tools. Repair of any such damage is the contractor's responsibility.

Application and Curing

At the time of application, all paint coatings shall be applied to clean steel, dry, and free of rust and any other foreign contaminants.

Coatings shall not be applied during the performance of nearby work, such as sandblasting, which is deemed likely by the Owner's Representative to contaminate the coating application process. All coatings shall be applied in a controlled environment, conformed to the manufacturer's application specifications.

For each coat applied, the Contractor shall take readings and produce a record of the ambient, surface, and dew point temperature. Take wet and dry film thickness measurements during the application process as outlined below. To be presented to the Owners Representative within 24 hours of application.

1) Ambient temperature readings before starting the coat application,

2) Upon completion of the application, and

3) For every four (4) hours in between (if applicable to the coat).

4) Document wet and dry film thicknesses throughout the application process.

5) Construct a map or Blueprint reflecting those readings (noting compliance or non-compliance)

The Contractor shall provide the Owners Representative with documentation of the temperature, wet and dry film thickness records, including notations regarding compliance and non-compliance within 24 hours of the coating event. Results must be reviewed with the Owners Representative prior to application of the sequential coat(s).

Extraordinary care shall be taken to ensure that surfaces to be painted are thoroughly dry and remain dry throughout the coating and curing process. Spaces shall be heated and dehumidified to levels in accordance with the paint manufacturer's preparation and application guidelines. All surrounding areas and equipment will be properly protected against said work.

Compliance with Paint Manufacturer's Guidelines and Recommendations

A copy of the paint manufacturer's preparation and applications guidelines applicable to each material being applied shall be provided to the Owner's Representative prior to application.

All primers and paints will be applied in accordance with manufactures' specifications.

Coatings shall be applied under environmental conditions conforming to the manufacturer's recommendations as listed on the manufacturer's published data sheets for the coatings being applied. Coatings shall not be applied at ambient, or surface temperatures less than the minimum application temperature recommended by the manufacturer for the particular coating involved. No coating shall be applied when the dew point temperature is equal to or greater than the surface temperature of the surface to be coated.

Correction of Damage Resulting from Paint Overspray and Grit Blasting

Any paint overspray shall be immediately and carefully removed in accordance with manufacturers guidelines.

Contractor shall take all necessary steps to prevent intrusion of and/or damage caused by blasting medium or any other contaminants such as painting overspray to the following equipment: stern tubes, transducers, hull penetrations, antennae, light fixtures, doors, windows, wires, cables, winches, tank vents, cabin vents, hatches, etc.

Machinery, equipment and surfaces damaged, marred, or contaminated shall be promptly repaired, replaced or cleaned to pre-existing condition at the Contractor's expense.

Welded and other affected Areas

Where any coating has been damaged by welding, burning, disassembly or other cause, the Contractor shall repair the damage area by abrasive blasting or power sanding the surface, cleaning the surface in accordance with manufacturer's recommendations, and applying a full paint coating system. Surrounding area and equipment will be properly protected during the performance of this work.