

# **CCGS SIR WILLIAM ALEXANDER DRY DOCKING & REFIT 2015**

## **H-14 ABOVE WATERLINE PAINTING (SUPERSTRUCTURE)**

The intent of this specification item is to clean and paint specific areas of the ship superstructure, funnel, fan room, including the helicopter hanger. Contractor shall supply all coatings, paints, equipment, and hardware necessary for the cleaning and painting of the above water areas of the hull. The existing Alkyd Enamel coating shall be repaired and/or renewed utilizing International Marine (Akzo Nobel Coating Ltd) epoxy coatings.

### **H-14.1**

Contractor shall prepare the following superstructure areas;

- 1) Funnel
- 2) Aft Fan Room
- 3) Helicopter Hanger

Apply the coating system in accordance with the manufacturer's recommendations. In conjunction with any functional Q & A procedure, the following points shall be carried out:

- H-14.1.1. > Provide a list of batch numbers with correspondent dates of manufacture.
- H-14.1.2. > Record the quantity and type of any solvent added.
- H-14.1.3. > Measure and record the ambient conditions.
- H-14.1.4. > Record details of spray tips and pressures.
- H-14.1.5. > WFT gauge readings shall be taken on a regular basis during application.
- H-14.1.6. > Using a calibrated DFT gauge, fifteen (15) measurements per 100 square ft. shall be taken and recorded. Upon agreement of consistency with the CGTA, fifteen (15) measurements per 1000 square ft. shall be taken and recorded.

### **H-14.2**

All recorded information shall be typewritten and three (3) copies given to the CGTA.

### **H-14.3**

All superstructure mounted windows, fixtures and equipment such as the exterior light fixtures, speakers, receptacles, ventilation inlets shall be effectively covered and sealed. All windows shall be covered and sealed using thin masonite or equivalent to protect the glass items from damage during all phases of hull preparation and coating. Greases and similar types of compounds shall not be used. All protective coverings shall be removed upon completion of all work.

### **H-14.4**

Contractor shall take precautions to ensure that no damage, unnecessary cleaning, or repairs shall occur from abrasive blasting and/or the application of coatings.

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### **H-14.5**

Contractor is responsible for all removals of ladders, fenders, damage control wood beams to allow access to perform the work. All removals shall be put back in good order upon completion of this specification work.

### **H-14.6**

Grit used for blasting shall not be allowed to enter any part of the vessel or its exposed equipment, and where such ingress may occur, the equipment shall be suitably protected.

### **H-14.7**

Prior to grit blasting the specified superstructure areas; Contractor shall temporarily mark the original location of each decal symbol so that the GSM decals can be applied by Contractor upon completion of all work, in their subsequent original locations.

### **H-14.8**

Contractor shall plug deck scuppers and discharges as well as taking other measures necessary to prevent any liquids from contaminating areas being prepared or coated. Contractor shall ensure that every opening into the vessel where grit can gain entry is suitably covered.

### **H-14.9**

Measures shall be taken to ensure that surfaces and equipment other than those specified are not coated and that any inlets or discharges will not be blocked by the coating or grit. Contractor is responsible for removing any over spray on the vessel as a result of this work. Deck machinery and other gear, susceptible to damage by grit or coating material shall be protected as necessary.

### **H-14.10**

Areas shall be addressed include but are not limited to:

- |               |  |
|---------------|--|
| H-14.10.1. >  | Tank and Void space vents.                                 |
| H-14.10.2. >  | Machinery spaces   |
| H-14.10.3. >  | Funnel outlets   |
| H-14.10.4. >  | All exterior lights  |
| H-14.10.5. >  | PA speakers  |
| H-14.10.6. >  | Helicopter fueling system                                  |
| H-14.10.7. >  | Hanger Tracks  |
| H-14.10.8. >  | Helicopter deck and hanger lighting system                 |
| H-14.10.9. >  | Searchlights   |
| H-14.10.10. > | Navigation equipment                                       |
| H-14.10.11. > | Air intake plenums and air intake and exhaust trunking;    |
| H-14.10.12. > | Accommodations air intake and exhaust plenums and trunking |
| H-14.10.13. > | Barge, lifeboat, FRC                                       |
| H-14.10.14. > | Deck machinery including crane, winches, and davits        |
| H-14.10.15. > | Exposed steel wires for davits, winches, etc.              |

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### **H-14.11**

The ship's identified superstructure areas are approximately 450 square meters (includes funnel and fan room). In addition, the aluminum hanger is approximately 350 square meters.

### **H-14.12**

Contractor shall fresh water wash the areas to remove all dirt and contamination, as necessary. Degrease according to SSPC-SP1 solvent cleaning. Ensure area is clean and dry prior to application. Corroded and damaged areas spot grit blast to SA2 STD and remaining all areas full grit blast to SA1. In areas where grit blasting cannot be use, Contractor shall use "Power Tool Cleaning to Bare Metal SSPC.SP11" method to service damaged areas.

Contractor shall ensure the area is clean and dry prior to application of coatings.

Contractor shall bid on abrasive blasting to the above noted standard 30% of the identified Superstructure surfaces plus 100 % of the Hanger structure (approximately 485 square meters in total). Contractor shall quote on a unit price per square meter for adjustment purposes. All coating edges shall be feathered back a minimum of 300mm. The identified superstructure areas shall be swept clean of all traces of grit with compressed air. The surface profile shall have a minimum roughness of 2 mils.

Blasting material used on the aluminum shall be non-metallic. It may be preferable to use a Hydro blasting. However, water ingress to the hanger shall be prevented and the overall result shall produce a surface prep, minimum roughness of 2 mils.

### **H-14.13**

Contractor shall stripe coat all welds, edges and inaccessible areas. A stripe shall be completed with each coat. All areas (except boat ramps) shall receive a touch up coat of Intershield 300 abrasion resistant epoxy. A full coat of Intergard 263 as a tar free tie coat to the subsequent 2 coats of Interthane 990 polyurethane top coat finish

The following paint process shall be used for each colour and area:

**Table H-14.1 White areas of the Superstructure:**

Product	Sales Code	Colour	Coats	WFT Mils	Volume Solids (%)	DFT Mils
Intershield 300	ENA300/A	Bronze	50% TU	8.3	60	5.0
Intergard 263	FAJ034/A	Light Grey	FC	5.3	57	3.0
Interthane 990	PHA163/A	RAL9003 White	FC	3.5	57	2.0
Interthane 990	PHA163/A	RAL9003 White	FC	3.5	57	2.0
Interthane 990	PHA164/A	RAL9004 Black SG for funnel top	FC	3.5	57	2.0
				21.6		12.0

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Contractor shall note that there is a 0.5 meter wide black band on the funnel top. This band shall be reapplied as per original.

**Table H-14.4 Aluminum Hanger:**

Product	Sales Code	Colour	Coats	WFT Mils	Volume Solids	DFT Mils
Intershield 300	ENA300/A	Bronze	FC	8.3	60	5.0
Interthane 990	PHA163/A	RAL9003 White	FC	3.5	57	2.0
Interthane 990	PHA163/A	RAL9003 White	FC	3.5	57	2.0
				15.3		9

### **H-14.14**

Contractor shall arrange for the services of a qualified installation technician to install the hull symbol decals on the Superstructure. All costs for this work shall be covered under the allowance listed in HD-14.26.

**Suggested company:** 3M Trim line (supplier of GSM decals)

### **H-14.15**

All traces of grit used for blast cleaning shall be removed by Contractor. Contractor shall be responsible for ensuring that the superstructure is clear and clean prior to, during, and immediately after the coating application.

### **H-14.16**

Contractor shall remove all protective materials from the machinery, equipment windows, vents etc. on completion of the coating work. All grit, dirt, debris, rust, scale, etc. shall be removed from all decks and areas of accumulation and disposed of ashore by Contractor

### **H-14.17**

All Winteb Vents shall be opened up and cleaned, removing any possible debris from the grit blasting. Vents shall be assembled with new GSM gaskets fitted.

### **H-14.18**

All staging, cranes, screens, lighting and any other support services, equipment, paint and materials necessary to carry out these specifications shall be CFM, installed, and removed upon completion of all work.

### **H-14.19**

Suitable storage facilities shall be provided close to the work site by Contractor for the material and equipment, to ensure they shall be maintained at the recommended temperature of the coating manufacturer for ease of preparation and proper application.

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### **H-14.20**

All coatings shall be applied in strict accordance with the manufacturer's instructions and recommendations.

### **H-14.21**

Contractor shall quote on preparing and applying coatings to one meter square portion of the ships accommodation section. This bid shall be kept separated from the overall bid and used to negotiate additional work through 379 action as required.

### **H-14.22**

All work shall be completed to the satisfaction of the CGTA.

## Barry Wall

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**From:** Barry Wall  
**Sent:** April-13-15 4:49 PM  
**To:** reg.hedges@dmg.nf.ca; 'Fabian Collier'  
**Cc:** 'lan.vong@hrsdc-rhdcc.gc.ca'; joanne.tucker@hrsdc-rhdcc.gc.ca; 'McCurdy Enterprises Ltd. (mccurdy\_group@hotmail.com)'; Kathy Cooper  
**Subject:** ESDC Gander Electrical 66% design submission  
**Attachments:** SV-L9600003\_20150312\_113140.pdf; SidelightGanderAPR2015.pdf; SV-L9600003\_20150312\_095552.pdf

Reg, here's our comments on the 66% drawings.

### A-1.01

- This drawing is not required for the fit-up. Demolition is a base building component/cost

### A-1.02

- The existing reflected ceiling plan is not required for the fit-up. The new plan as req'd for the fit-up is shown on DMG A-1.04 and Crosbie Engineering drawing E3

### A-1.03 (please refer to attached floor plan)

- Room 101 (Public Washroom) W1 should be W2
- Room 103 (Interview Room) All walls should be W2
- Room 106 (Quiet Room) All walls should be W2
- Room 107 (Employee Washroom) All W1 should be W2
- Room 108 (Employee Washroom) W1 & W6 should be W2
- Room 111 (Exhibit Storage Room) All walls should be W2
- In the legend "Wall types", please remove W4, W5 and W6
- In the legend "Wall types", please change description in W3 from "extend wall 150mm above existing grid ceiling" to "extend wall to u/s existing concrete slab"
- Wall colours are not shown in the Rm Finish Schedule.
- Door hardware not indicated for door 015 in door finish schedule

### A-1.04

- Change telecom room to drywall ceiling.

### A-1.05 (see attached floor plan)

- Please add the following description for Door 003, 004, 005 & 006 "Acoustic automatic threshold (door bottom seal)"
- Door 009 replace "ANSI F82 - office " to "ANSI F82 - classroom"
- Door 110 should be Door 010
- Door 111 should be Door 011
- Door 112 should be Door 012
- Door 012 should be Door 014
- Door 014 should be Door 015
- Door 010 & 011 (Employee washrooms) should not have the same description as Door 008 (Kitchen), we should be able to lock the doors for the washrooms.
- Please add a second door type called A2 with a sidelight
- Door 003, 004, 005, 006, 008 & 009 should have a sidelight with frosted glazing. See sidelight detail attached.

