

CCGS EARL GREY

SEPTEMBER 2017, DRY-DOCKING AND REFIT

VLE-12 GALLEY REFIT **Revision 1**

1. IDENTIFICATION

The intent of this specification is for the Contractor to remove and replace all listed galley equipment.

2. REFERENCES

2.1 GUIDANCE DRAWINGS/NAMEPLATE DATA

- a) C14-40-601-02-R0 Galley Modification
- b) C14-40-512-01-04 HVAC General Arrangement Main Deck and Galley Details
- c) VNEA2_732-000_STEEL DOORS HATCHES & MANHOLES
- d) VNEA2_711-000_JOINER BULKHEADS & DOORS
- e) VNEA2_711-000_JOINER BULKHEADS & LININGS

2.2 STANDARDS AND REGULATIONS

- a) Lloyd's Class Notification 100A1 Ice Class 1A Super LMC Arctic Class 2 vessel
- b) Fleet Safety and Security Manual (DFO/5737)
- c) CSA W59-08(R2008) –Welded Steel Construction
- d) CSZ W47.1-09–Certification of Companies for Fusion Welding of Steel
- e) TP 11469 - Guide to Structural Fire Protection
- f) TP 127 – Ships Electrical Standards
- g) Canada Labour Code – Maritime Occupational Health and Safety Regulations
- h) Nova Scotia Health Protection Act – Food Safety Regulations

2.3 GOVERNMENT FURNISHED EQUIPMENT

1. The contractor must supply all materials, equipment, and parts required to perform the specified work unless otherwise stated.

3. TECHNICAL

3.1 GENERAL

1. The contractor must electrically isolate the equipment by performing a lock out of the IM9 115V distribution panel and the #200 230V distribution panel.
2. The Contractor must maintain lighting system and fire detection system.
3. All removed equipment is categorized as Category "A" as per the technical data package. .
4. Upon completion of all hot work, any coating that has been disturbed by hot work or new steel must be prepared to SSPC-SP3 standard and then given 2 coats of Contractor supplied Wasser MC-Miozinc 100 primer. Contractor must apply a topcoat of paint to colour match the existing colour scheme of the work area, and conform to the vessel's Paint Schedule.

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3.2 REMOVALS

1. Equipment to be removed from the galley:
 - a) Range
 - b) Refrigerator

EQUIPMENT PICTURES:



Range



Refrigerator

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3.3 REMOVAL ROUTE #2

3.3.1 GENERAL

1. Larger equipment must transit via route #2. Equipment exits the galley via the forward galley door leading to the domestic machinery room stairs. It goes down the machinery room stairs and enters the escape trunk. The equipment must be hoisted up the escape trunk through the stores hatch located on the forecastle deck.

3.3.2 GALLEY FORWARD DOOR MODIFICATION

1. The galley front door must be removed.
2. The magnetic catch must be removed.
3. Cold room indicator lights located above front door must be dismantled.
4. Forward galley door clear opening must be cut to 1000mm x 2025mm.

3.3.3 TRUNK ACCESS MODIFICATION

1. Domestic machinery space trunk access must be cut to 2025mm high.
2. Trunk cutout must be painted following painting procedure in section 3.1 paragraph 4.

3.3.4 ESCAPE TRUNK MODIFICATION

1. Escape trunk ladder must be removed.
2. Ladder brackets must be cut.
3. Ballast tank valve must be locked and tagged out.
4. Ballast tank stiffener located in the truck access must be removed.
5. The plate surrounding the stores hatch coaming on top of the access trunk has to be cut to create a clear opening of 1040 x 1150. This operation is needed for the routing of the main deck HVAC unit.

3.3.5 EQUIPMENT TO BE REMOVED VIA ROUTE #2:

- | | |
|------------------|---------------------|
| a) Range* | 807 x 870 x 1524mm |
| b) Refrigerator* | 762 x 1295 x 1828mm |

1. Equipment with a * are to be dismantled in order to fit the route. Procedure is detailed below.

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3.4 REMOVAL PROCEDURE

1. Range

The range must be cleaned to avoid any grease spill.
Electrical wire must be disconnected.

Legs and back guard must be removed in order to fit in the route. Parts must be marked and attached to the range for transport.

Cooking grates, electrical wire and oven doors must be properly secured for transport.
Control cabinet must be cleaned to avoid any water or soap spill.

Door and electrical wire must be properly secured for transport.

2. Refrigerator

Refrigerant gas must be removed and properly disposed of by a qualified technician. Refrigerant disposal certificates and documentation must be provided to the TA.

The refrigerator must be cut in two or more sections in order to fit in the route.

3.5 HVAC ROUTING

3.5.1 GENERAL

1. Before bringing any new galley equipment in place, the main deck HVAC unit must be routed through the emptied galley. See HVAC report for detailed information, and Specification item VLE-13.
2. Portside galley door steel cutout must be removed and cutout modified as per description below.
3. Once HVAC unit is onboard and positioned, the opening will be completely closed.

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3.5.2 PORTSIDE GALLEY DOOR

1. The portside galley door must be removed.
2. The magnetic catch must be removed and reprogrammed on its control panel.
3. Exhaust hood auto-clean control cabinet must be removed.
4. The wet chemical fire system control cabinet must be removed.
5. Galley door clear opening width must be cut to 900mm.

3.5.3 Galley Door Closing

IMPORTANT: Main deck HVAC unit has to be brought in place before performing these operations.

1. New plate and stiffeners must be welded in place following C14-40-601-02-R0 to completely close the portside galley door.
2. New bulkhead must be painted on both sides following painting procedure in section 3.1 paragraph 4.
3. The bulkhead lining will be completed after galley drains modification as per drawing VNEA2_711-000_JOINER BULKHEADS & LININGS.

3.6 Electrical system

1. Galley's electrical panel and wire must be reconfigured to meet the new equipment requirements.
2. All electrical works must be done following C14-40-306-01 R0 Load Analysis.

Panel #200, 230V

Circuit 201 - Range

- a) Breaker must be raised to 150 amps.
- b) Wire must be changed for 3C 2/0.

3.7 LIST OF NEW GALLEY EQUIPMENT

- a) Range
- b) Refrigerator

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3.8 NEW EQUIPMENT ROUTING

3.8.1 GENERAL

1. Main deck HVAC unit has to be routed in place before any galley equipment routing.
2. Equipment has been treated as boxes for the routing. Width, length and height do not refer to the actual shape and footprint of the equipment.

3.8.2 EQUIPMENT BROUGHT IN VIA ROUTE #2

- | | |
|-----------------|--------------------|
| a) Range | 807 x 870 x 1524mm |
| b) Refrigerator | 687 x 749 x 1991mm |

1. The range's back guard and legs must be removed in order to fit in the route.

3.9 AFTER ROUTING REBUILD

3.9.1 FORWARD GALLEY DOOR

1. Steel cutout must be brought back to original dimension following VNEA2 732-000 Steel doors, Hatches & Manholes plan.
2. New steel must be painted on both sides following painting procedure in section 3.1 paragraph 4.
3. New door must be installed as per VNEA2_711-000_JOINER BULKHEADS & LININGS.
4. Cold room indicator lights must be reinstalled.
5. Door's magnetic catch must be reinstalled.

3.9.2 ESCAPE TRUNK

1. Ballast tank stiffener must be welded back in place.
2. Ballast tank stiffener must be painted in the escape trunk and inside the ballast tank. The paint inside the ballast tank must follow the coatings in Section 3.1 of this Specification.
3. Ballast tank valve must be unlocked.
4. Ladder brackets have to be welded back in place.

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5. All exposed metal after welding are to be painted following painting procedure in section 3.1 paragraph 4.
6. Ladder must be reinstalled.
7. Stores hatch must be reinstalled.

3.9.3 NEW EQUIPMENT INSTALLATION DETAILS

1. All galley equipment must be tested and demonstrated to the CGTA

3.9.4 RANGE

1. Located right of the fryer, aft of the center galley wall.
2. Back guard and legs must be re-assembled.
3. Electrical power must be properly connected following the equipment specification document.
4. The range must be secured to the floor.

3.9.5 REFRIGERATOR

1. Located on the fore galley bulkhead, sided to portside galley bulkhead.
2. Old toe plate must be completely removed.
3. A new base must be built to raise the equipment as high as possible.
4. Electrical power must be properly connected following the equipment specification document.
5. The refrigerators must be secured to the bulkhead and/or the floor.

4.0 PROOF OF PERFORMANCE

4.1 INSPECTION

1. All work must be witnessed by the CGTA and IA and the attending TCMS surveyor.

4.2 TESTING

1. The Contractor must perform functional tests of the new galley equipment as per the manufacturer's recommendations for commissioning.

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4.3 CERTIFICATION

1. Equipment and component certificates including all test reports and CSA and / or ULC certificates of compliance must be supplied to the CGTA and TCMS.

4.4 DELIVERABLES

1. All documentation supplied with the galley equipment must be delivered to the CGTA.

4.5 TRAINING

1. The Contractor must be responsible to give 2 ship's staff any necessary training to operate all new galley equipment.