

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving - PWGSC / Réception des soumissions**  
**- TPSGC**  
**11 Laurier St. / 11, rue Laurier**  
**Place du Portage , Phase III**  
**Core 0B2 / Noyau 0B2**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

## **SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

### **Comments - Commentaires**

**Vendor/Firm Name and Address**  
**Raison sociale et adresse du**  
**fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**  
Ship Refits and Conversions / Radoubss et  
modifications de navires and / et  
11 Laurier St. / 11, rue Laurier  
6C2, Place du Portage  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> LEONARD J COWLEY VLE REFIT- 2015	
<b>Solicitation No. - N° de l'invitation</b> F7049-140286/A	<b>Amendment No. - N° modif.</b> 009
<b>Client Reference No. - N° de référence du client</b> F7049-140286	<b>Date</b> 2015-01-26
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$MD-021-24828	
<b>File No. - N° de dossier</b> 021md.F7049-140286	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-02-09</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Byron, Dan	<b>Buyer Id - Id de l'acheteur</b> 021md
<b>Telephone No. - N° de téléphone</b> (819) 956-0691 ( )	<b>FAX No. - N° de FAX</b> (819) 956-7725
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation No. - N° de l'invitation

F7049-140286/A

Amd. No. - N° de la modif.

009

Buyer ID - Id de l'acheteur

021md

Client Ref. No. - N° de réf. du client

F7049-140286

File No. - N° du dossier

021mdF7049-140286

CCC No./N° CCC - FMS No/ N° VME

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**Solicitation Amendment #9 is issued to:**

**1) Include the meeting minutes to the Bidder Conferenc into the Invitaiton to Tender**

**INCLUDE: the meeting minutes to the Bidder Conferenc into the Invitaiton to Tender**

**End of solicitation amendment #9**

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CCGS Leonard J. Cowley – VLE Refit 2015  
PWGSC File Number: F7049-140286  
Bidder Conference  
280 Southside Rd, St. John's NL  
Gilbert Room  
1 PM, Thursday January 15, 2015  
**Meeting Minutes**

OPENING REMARKS

- PWGSC welcomed all bidders to the bidders conference.
- A review of the Agenda outline was completed
- PWGSC requested that all bidders questions/clarifications be presented only when the specific section of the invitation to tender is being discussed, and when the individual specification in the statement of work is on the floor.

PART 1

1- Documents issued to Bidders,

A review of the documents published on buy and sell was completed. The following documents were listed:

- a. Invitation to Tender
- b. Notice Amendments 1
- c. Notice Amendment 2
- d. Solicitation Amendment #1
- e. Solicitation Amendment #2
- f. Solicitation Amendment #3
- g. Eight (8) electronic pdf drawings:

**POST MEETING NOTE:**

1. Stbd Miranda Davit Installation – General Arrangement, sheet 1
2. Stbd Miranda Davit Installation – General Arrangement, sheet 2
3. Stbd Miranda Davit – Construction Detail, sheet 1
4. Stbd Miranda Davit – Construction Detail, sheet 2
5. Port Miranda Davit Installation – General Arrangement, sheet 1
6. Port Miranda Davit Installation – General Arrangement, sheet 2
7. Port Miranda Davit Installation – Construction Detail, sheet 1
8. Port Miranda Davit Installation – Construction Detail, sheet 2
- h. Drawing Specification Package (DSP) – containing 129 compressed files.

**PWGSC: instructed all bidders to disregard versions of the specifications distributed at the vessel viewing and refer to the actual specification currently posted on buy and buy and sell.**

## 2- Review of Refit to Budget

- A review of the Refit to budget methodology was completed.
- Bidders were informed of the changes made to Annex H, from the typical Invitation to Tender from our unit. These changes include:
  - a. Addition of Annex H – Appendix 2
  - b. Revisions to the Evaluation Sheet included in Annex H, Section H1 to include cumulative pricing information, and the cumulative points where the bidder stops bidding in Annex H - Appendix 2
  - c. The specifications items presented in Annex H – Appendix 2 are prioritized from most important to least important, and are roughly tapered downwards in pricing with some variation.
  - d. Bidders were instructed how to fill out Annex H – Appendix 2, and how to transfer Cumulative pricing and cumulative points from Annex H – Appendix 2 to the Evaluation Sheet included in Annex H, section H1.
  - e. Bidders were instructed that they are to enter their pricing for each spec item from the statement of work, into Annex H – Appendix 2 until the bidders cumulative bid price is between \$8.5 million and \$9.0 Million.
  - f. Bidders were reminded that bids below \$8.5 Million and above \$9.0 Million would be considered non responsive.
  - g. Revisions to the Evaluation Sheet included in Annex H, section H1 to include cumulative pricing information, and the cumulative points where the bidder stops bidding in Annex H - Appendix 2
  - h. Bidders were instructed that they are only required to include the pricing information for the individual specification items in Annex H – Appendix 1 that are entered in Annex H – Appendix 2.

**POST MEETING NOTE: Pricing information for the specification items entered into Annex H – appendix 2 will take precedent over pricing information entered into Annex H - Appendix 1.**

## 3- Reminders on the procurement process.

The following comments were made by the PWGSC Contracting Authority:

- a. Bid Closing has been moved to February 3, 2015 at 2:00 PM Eastern Standard Time.
- b. Bids are to be submitted to the PWGSC Bid Receiving Unit in Gatineau Quebec – address included on the cover sheet of the solicitation document. This is the only office that can accept the bids for this solicitation.



- c. Bidders were reminded not to submit to any other PWGSC Regional Office other than the address indicated on the cover sheet. Bids submitted to these offices would not be redirected to PWGSC Bid Receiving Unit in Gatineau Quebec.
- d. Bidders were reminded not to send their bids directly to me. I cannot redirect the bids to PWGSC Bid Receiving Unit in Gatineau Quebec.
- e. This is an unmanned refit, however vessel will have to be made habitable for returning crew by October 19, 2015 (including completed work in the Galley, washrooms. And living spaces)

**POST MEETING NOTE: The vessel will remain under the care and custody of the yard for the duration of the refit.**

4- Review of the Invitation to Tender (ITT)

a. Part 1 to 6 Instructions and Procedures (PWGSC)

- A question was received relating to placing labour hours, material costs into Annex H –Appendix 1. This pricing information is not requested on pricing sheet for solicitations with origins from their regional office. Bidder requested that the pricing sheets be changed. PWGSC explained how this information is used in the Contract. It was explained it was used for comparison purposes when reviewing 1379's. It was also explained that this information is not public information and is not distributed to the CCG. PWGSC indicated that it will not change Annex H – Appendix 1.
- Bidder wanted to know who to speak to change our offices process to include labour hours and material costs in our pricing sheet. PWGSC Contracting Authority did not know who to contact.  
**POST MEETING NOTE: PWGSC Contracting Authority suggest that the bidder speak directly with David E. Avery, Ship Refit Manger, PWGSC Marine Systems, Gatineau Quebec.**
- A request for public bid opening was made. PWGSC indicated that it would not have a public opening of bids, our office does not have public bid opening for refits in our Invitation to Tenders.
- Bidder indicated that he does not consider the tender document an Invitation to Tender if there is no public opening of bids. PWGSC replied that regional office operate differently. PWGSC assured the bidder that his comments would be noted in the minutes.

Part 1: no questions or comments

Part 2: no questions or comments

Part 3: no questions or comments

Part 4: no questions or comments

Part 5: no questions or comments

Part 6: no questions or comments

b. Part 7 Resulting Contract Clauses (PWGSC)

- Bidder wanted to know what type of certification was required for 7.25 Supervision of Fueling and Disembarking Fuel. PWGSC indicated that he would look into this and provide additional information.

POST MEETING NOTE:

c. Annexes B to I (PWGSC)

Annex B: no questions or comments

Annex C: no questions or comments

Annex D: no questions or comments

Annex E: no questions or comments

Annex F: no questions or comments

Annex G: no questions or comments

Annex H: no questions or comments

Annex I: no questions or comments

5- Review of deliverables at bid closing ANNEX J (PWGSC)

- Bidders were directed to Annex J, which includes that mandatory deliverable to include with the bid. All these deliverable must be included with the bid to be considered responsive.
- Bidders were reminded to submit a signed cover sheet of the Invitation to Tender document.

PART 2

Review of CCGS Cowley Refit Specifications (PWGSC/CCG)

- CCG Supplied the following information:

**Cowley VLE**

**GFE List**

**January 22, 2015**

- 
1. **H-09 Fuel Oil Piping/Valves Replacement:** Two 200DN mm valves for the flume tank. Delivery Time: Change to Shipyard supplied. 8 weeks
  2. **H-11 Avgas Dispenser Unit Replacement:** Supply new avgas fuel dispenser. Delivery Time: Change to Shipyard supplied. 6-8 weeks
  3. **H-27 Aviation Gas Damper Renewal:** Two new owner supplied Lloyd's approved shutdown louvers. Delivery Time: 1st week in March 2015.
  4. **HD-17 Port Miranda Davit Installation:** Supply Miranda Davit unit. Delivery Time: 1st week in March 2015.
  5. **HD-18 Stbd Miranda Davit Installation:** Supply Miranda Davit unit. Delivery Time: 1st week in March 2015.
  6. **E-01: Generator Engine Overhaul:** Parts for overhaul, new block complete with new crankshaft, camshaft and gear train. Delivery Time: March 15, 2015.
  7. **E-04: Lifeboats and Davits Quinndrinnal:** 1. New seals & barrel hubs with bearings, seals. 2. Hydrostatic release diaphragm c/w cover retaining screws with a vessel supplied diaphragm and 3. (4) KH 6.5 hooks. Delivery Time: March 30, 2015.
  8. **ED-01: Steering Gear Controls Upgrade:** Control equipment. Delivery Time: June 30, 2015.
  9. **ED-02 : Stbd Main Engine Overhaul:** Parts for overhaul. Delivery Time: June 10, 2015.
  10. **ED-03 PORT & STBD M/E Controls Upgrade:** Owner will supply the complete control upgrade equipment. Delivery Time: August 3, 2015.
  11. **ED-07 CPP OD Box Overhaul:** New bearings and seals. Delivery Time: April 16, 2015.
  12. **ED-08: Bow Thruster Controls Upgrade:** Control equipment. Delivery Time: July 30, 2015
  13. **L-08: Miranda Davit Electrical Installation:** (4) NEMA soft starts electric motor controllers (4 x 40KW motor starters at 460 Volt). Delivery Time: 1st week in March 2015.



a. Preamble:

- Bidder asked what the arrival condition of the vessel would be. CCG indicated that this information could not be given at this time, it depends on where the vessel will be transferred. More information would be given to the yard after Contract Award.
- Bidder asked if CAD drawing are available. It was explained that this impacts the level of effort required to modify any as built drawings requested in the specification. PWGSC/CCG would look into what drawings are available in CAD or Tiff format and will post on buy and sell. CCG indicated that they would provide a table of available drawings in their available formats. PWGSC indicated that this information would be made available ASAP.

**POST MEETING NOTE: the following drawing are available in Auto Cad (ONLY)**

1. 560-70 general Arrangement Bridge and
2. 590-01 Shell Expansion
3. 590-03 Structural Sections fr 67-99
4. 590-34 FW & SW Cooling diagram
5. 590-35 Fuel Oil Diagram
6. 590-36 Bilge Ballast Fire system
7. 590-40-01 vents and sounding pipes 1 of
8. 590-40-03 vents and sounding piping
9. 590-42-1 Fuel Oil Piping
10. 590-42-2 Fuel Oil Piping
11. 590-44-1 Bilge, Ballast and Fire system
12. 590-44-1 Bilge, Ballast and Fire system
13. 590-45-1 Bilge, Ballast and Fire system
14. 590-45-2 Bilge, Ballast and Fire system
15. 590-70 sht 1 of 2
16. 590-70 sht. 2 of 2
17. 590-79 capacity Plan
18. 590-83-1
19. 590-96 Docking Plan
20. 59014301 Master Clock system 2
21. 5901501 Antenna Arrangement
22. 59016001 PA and Telephones Systems
23. 59016002 PA and Telephone Systems
24. 59016201 Master Clock System
25. 59017701 General Arrangement Main



- Bidder asked who is responsible for Lloyd's inspection fees. CCG indicated that the fees are covered by CCG, but the scheduling is the responsibility of the yard.

b. H-01: no questions or comments

c. H-02:

- bidder requested information regarding the weight capacity of the shelving in the requirement. CCG indicated that they would look into it and get back to the bidders.

**POST MEETING NOTE: 200kilograms per pallet.**

d. H-03:

- Bidder requested information on the Allowances. Bidder wanted to know if the allowances described in the specification were addition to the ones described in the individual specifications. CCG indicated that the allowances in H-03 were separate from those specifically mentioned in other specifications. CCG also commented that the vessel is still under the care and custody of the yard during sea trials.

**POST MEETING NOTE: CCG will supply crew to operate the vessel for sea Trials**

e. H-04: no questions or comments

f. H-05: no questions or comments

g. H-06: no questions or comments

h. H-07: no questions or comments

i. H-08: no questions or comments

j. H-09:

- CCG supplied the following information:

**Contractor to supply two (2) Flume tank dump valves.**

**Valves must be Keystone 080 362 CSS9TSG0, 200mm (8 inch) figure 362 150# ANSI Lugged Style Butterfly valve, cast steel body, stainless steel disc and stem, viton seat. Complete with: Keystone 79U-090-C000-A000 (221 952-090-79U-000) Double acting pneumatic actuator.**

**Complete with manual override and F791N-A-110AC-D-WP-02, 120 vac Solenoid valve.**

**These will be tagged as follows:**

**One tagged Flume Tank Dump valve #1 Port.**

**One tagged: Flume Tank Dump valve #1 Starboard.**

**These are to be supplied as two complete units, mounted and tested and approved by Lloyd's Register.**

**Suggested supplier East Valve and Control Specialist (Ron Skinner 709-757-2730). If Contractor can not supply the above, the equivalent must be Canadian Coast Guard approved prior to purchase and Lloyd's approved before installation.**

- Bidder requested clarification on "2.1.1 Owner reserves the right to direct procurement". This information is difficult for pricing. PWGSC indicated that this comment would be clarified in the specification.

**POST MEETING NOTE: CCG reason for this is to make sure the quality of equipment is Lloyd's approved or Original Equipment manufacturer where required.**

- Bidder asked "3.3.7 ....replace any hangers deemed to be unusable by Lloyds, or chief Engineer". Will these cost of the hangar replacement be by 1379 action ? PWGSC: Any hangars that Lloyds/Chief Engineer deem unusable will be replaced by 1379 action.
- Bidder requested clarification on whether bilingual manuals were required. PWGSC indicated that this requirement for bilingual manuals will be clarified ASAP.

**POST MEETING NOTE: Contractors are to supply bilingual manuals (where possible). Manuals only available in English do not have to be translated.**

- CCG indicated that the bidders are to include an additional \$24,000 allowance for the supply of two Lloyd's approved flume tank valves (port and stbd) complete with actuators, manual override, and suitable for fuel oil. Originally this material was GFM and is now CFM.

**POST MEETING NOTE: These valves pertain to section 3.4.10 in the specification.**

- CCG supplied the following information.

**Contractor to supply two (2) Flume tank dump valves. Valves must be Keystone 080 362 CSS9TSG0, 200mm (8 inch) figure 362 150# ANSI Lugged Style Butterfly valve, cast steel body, stainless steel disc and stem, viton seat. Complete with: Keystone 79U-090-C000-A000 (221 952-090-79U-000) Double acting pneumatic actuator. Complete with manual override and F791N-A-110AC-D-**



**WP-02, 120 vac Solenoid valve** These will be tagged as follows: **One tagged: Flume Tank Dump valve #1 Port. One tagged: Flume Tank Dump valve #1 Starboard.** These are to be supplied as two complete units, mounted and tested and approved by Lloyd's Register. Suggested supplier East Valve and Control Specialist (Ron Skinner 709-757-2730). If Contractor can not supply the above, the equivalent must be Canadian Coast Guard approved prior to purchase and Lloyd's approved before installation.

k. H-10:

- Bidder requested clarification on whether the cabling is Contractor furnish or Government furnished material. CCG indicated that it is to be Contractor furnished material.
- Bidder requested clarification on the training requirements in section 5.3 of the specification. Where and when is the training supposed to be completed? CCG replied alongside before the yard transfers custody of the vessel back to Canada.

**POST MEETING NOTE:** (H-10 Sewage Treatment Tank Replacement) Note that **Part 2: References, paragraph 2.1.16 " Contractor to supply one new Super Trident Hamworthy ST2A CR (complete with one (not two) ejector pump and two discharge pumps) Sewage Treatment Tank unit, with a spare ejector pump and a spare discharge pump and one Effluent Overflow Tank as per reference 55071B-01, no substitution. Also Paragraph 3.3.3.1 on page 75 of Cowley 2015 VLE should read "The Contractor shall supply and install the new Super Trident Hamworthy ST2A CR (complete with one(not two) ejector pump and two discharge pump units) Sewage Treatment Tank Contractor to supply can supply a two injector pump unit it can**

l. H-11:

- Bidder asked if drawing is available for the access hatch, and is the specification for the replacement hatch also available. CCG: Drawings with details were supplied. Must be Lloyds approved. Bidder to use drawings provided for details. Sufficient detail is provided on the drawing 102-08-02 Helicopter Refueling System Access Hatch for bidding purposes.

**POST MEETING NOTE:** Addition information for hatch and rollers for the hatch supplied

- CCG: Bidder to include in their bid an allowance of \$50,000 to supply the AVGAS Fuel Dispenser.

m. H-12:



- Bidder requested clarification on the term "No substitution" in section 3.1.2. CCG: bidder to supply Dex O Tex.
- Bidder asked if the "add" should be "and" in 3.1.11.7. CCG: Yes.

- n. H-13: no questions or comments
- o. H-14: no questions or comments
- p. H-15: no questions or comments
- q. H-16: no questions or comments
- r. H-17: no questions or comments
- s. H-18: no questions or comments
- t. H-19: no questions or comments
- u. H-20: no questions or comments
- v. H-21: no questions or comments
- w. H-22: no questions or comments
- x. H-23: no questions or comments
- y. H-24:

- Bidder requested clarification on the materials used in this spec "Can alternative materials be used"? CCG: replied that there can be no substitution for the materials specified.
- Bidder requested clarification on "replace all deteriorated piping" in the specification. CCG: Contractor is to replace all hot and cold fresh water piping.

- z. H-25:

- CCG wanted to change wording in section 3.1.1.4. Remove "Stainless Steel interior and exterior smooth finishes, no floor required". Add "Stainless Steel interior and exterior smooth finishes, **floor required**"

**POST MEETING NOTE: The floor will be stainless steel 10cm thick c/w foamed place polyurethane cam locked panels to the walls.**

- CCG wanted to change wording in section 3.1.2.4. Remove "Stainless Steel interior and exterior smooth finishes, no floor required". Add "Stainless Steel interior and exterior smooth finishes, **floor required**"

**POST MEETING NOTE: The floor will be stainless steel 10cm thick c/w foamed place polyurethane cam locked panels to the walls.**

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- aa. H-26: no questions or comments
- bb. H-27: Bidder asked if drawings were available for the dampers. CCG replied that they would look to see if drawings are available. As an alternative, pictures of the existing dampers and dimensions will be provided.
- cc. H-28: Bidder asked if grit blasting can be replaced with 50,000 psi hydroblasting to achieve near white SSPC-SP10 . CCG replied that they would look into the request and get back to the bidders.

**POST MEETING NOTE: You can hydroblast using 50-80K psi and remove the coating for application of the new coatings. One thing to keep in mind is that hydroblasting will not produce a profile. It will clean out an existing profile if there is one in the steel. CCG want to say that you will require a profile between 1.5 – 3mils and if it is not there in the steel the contractor will be required to produce said profile. One other change is non-skid Intershield 556 product is discontinued and the replacement is Intershield 6GV.**

- dd. H-29: Bidder asked whether stability 6 or stability 7 is to be used in 3.1.9. Bidder retracted question.
- ee. H-30: no questions or comments
- ff. H-31: no questions or comments
- gg. H-32: no questions or comments
- hh. HD-01: no questions or comments
- ii. HD-02: no questions or comments
- jj. HD-03: Bidders asked what is the fairing component to be used around the new transducers. CCG get back to you. CCG Contractor to use Intergard 821 epoxy or equivalent to build up area around new transducers.
- kk. HD-04:
- Bidder asked what level of cleaning is required in the sea chest. CCG replied hand tooling.
- ll. HD-05: no questions or comments
- mm. HD-06: CCG wanted to modify the wording in 3.1.14 to "Coating Sequence for repaired areas as follows: 1. Spot prime 1<sup>st</sup> coat Intershield ENA 300 Aluminum 6 mil DFT. 2. 2<sup>nd</sup> coat Intershield ENA 300 Bronze 6 mills DFT. 3. 3<sup>rd</sup> coat Intergard 377 Black 6 mil DFT.
- nn. HD-07: Bidder asked if a drawing was available for this specification.

**POST MEETING NOTE: CCG replied that a drawing will be provided. CCG has provided drawing referenced Exterior Scuppers & Drains 590-51, rev.0 (included in Solicitation amendment 7)**

- oo. HD-08: no questions or comments
- pp. HD-09: no questions or comments
- qq. HD-10: Bidders requested copies of the noted standard in section: CCG will provide this information to the bidders.

**POST MEETING NOTE: Standard CT-043-EQ-EG-001 Welding Specification is supplied in English and French (included in Solicitation Amendment #7)**



- Bidder asked for the number of shots for NDT testing in section 1.6.2. CCG will get back to bidders on this detail.
- Bidder asked for the number of shots for NDT testing in section 1.8. CCG replied this requirement is not specific to shots.

POST MEETING NOTE: CCG section 1.6.2. Contractor to bid on 200 UT shots.  
Section 1.8 As per Standard CT-043-EQ-EG-001 Welding Specification

- Bidder asked if air testing acceptable. CCG instructed the bidder to bid on what is in the requirement.

rr. HD-11:

- Bidder asked if small valves (1 inch or smaller) can be replaced instead of overhauled. CCG confirmed that valves 1 inch or smaller can be replaced instead of overhauled, it is up to the contractor. Replacement Valves must be Lloyd's approved.

ss. HD-12:

- Bidder asked if there were any available drawings for this system. CCG replied that they will see what is available, and get back to the bidders.

**POST MEETING NOTE: None available.**

tt. HD-13:

- Bidder asked if the Ballast Tanks need to be tested twice, before and after filling as per 6.2.4 and 6.2.6. CCG: second hydro-testing after filling is not required.

**POST MEETING NOTE: Delete section 6.2.6.**

- Bidder asked if the hydro-static tank testing is to be completed with fresh water or can salt water be used for the testing. CCG: If salt water is used for the testing, upon completion of the test, the water must be removed after the test.

uu. HD-14:

- Bidders asked if the pressure testing referred to in section 4.2 is for the piping that is installed in the specification. CCG: pressure testing is for piping.
- Bidder asked if the tanks is to be Hydrostatically tested. CCG: yes

vv. HD-15: no questions or comments.

ww. HD-16:

- Bidders commented that 3.1.8 and 3.1.13 seem to indicate that two different paint specifications are requested. CCG: 3.1.13 can be deleted.
- Bidder asked if the cost for scaling and repairs to internal paint are to be by 1379 action. CCG: Bidders are to bid on 4.65 m<sup>2</sup> of scaling and paint repairs (as indicated in the specification). Bidder asked if Contractor is to supply NACE inspector. CCG: CCG is to supply NACE inspector. Contractor to schedule NACE inspector.



xx. HD-17: no comments or questions.

yy. HD-18:

- Bidder asked how the stowage system is fastened to the deck. CCG: system is sitting on chocks/cradles. Existing crane is not being removed.\

zz. HD-19: no questions and comments

aaa. HD-20: no questions or comments

bbb. HD-21: no questions or comments

ccc. E-01:

- CCG: commented that this specification will be revised to reflect change that parts for Generator overhaul were originally Contractor Furnished Equipment, but will now be Government Furnished Equipment.
- Bidder asked if FSR is completing the overhaul with yard assistance. CCG: will provide more details. Bidder requested that the bid include hours for bidding purposes.

**POST MEETING NOTE: CCG. Revised section of spec answers these questions.**

ddd. E-02: no questions or comments

eee. E-03: no questions or comments

fff. E-04: CCG commented that this specification will be revised. A portion of the description of work in PART1: Scope will be moved into Part 3: Technical Description.

- Bidder asked if the yard was to assist the FSR (Harding) or is FSR to complete the work. CCG: Will clarify and get back to bidders.

**POST MEETING NOTE: CCG Revised spec**

ggg. E-05:

- Bidder commented that in sections 3.1.12, 3.2.8, and 3.3.9 require contractor to replace valves if required by Lloyd's. Valves in 3.4.9 not meeting Lloyd's or Chiefs approvals are to be replaced by PWGSC 1379 action. Bidder asked if all valves that require replacement in E-05 can be replaced by PWGSC 1379 action. CCG replied that it would look into the question and get back to bidders. CCG: Yes all valves that have to be replaced will be by PWGSC 1379 action
- Bidder asked if pipe system drawings were available. CCG: will look into what pipe system drawings are available and get back to the bidders.

**POST MEETING NOTE: CCG no drawings available.**

hhh. E-06: no questions or comments

iii. E-07: no questions or comments

jjj. E-08: no questions or comments

kkk. ED-01: Bidder asked if Roll's Royce expenses to be covered by the allowance and adjusted up or down by 1379. CCG: replied yes.

- Bidder asked if a routing drawing was available. CCG: route will be as per existing.
- Bidder asked if they are to bid assuming that they can use existing trays. CCG: replied yes.

lll. ED-02:

- Bidder asked if turbos can be installed insitu. CCG: replied that they usually are.
- Bidder asked for more detail on the FSR allowance, who is doing the work yard or FSR. CCG: replied that they would look into it and get back to the bidders.
- Bidder asked if Wartsilla FSR is completing all the work with the \$300,000 allowance ? CCG: replied it would look into the question and get back to the bidders.
- Bidder asked if they are to include an allowance for Brown Boveri for the overhaul of the turbo chargers. CCG: will look into the question and get back to the bidders.

**POST MEETING NOTE: The answer is no wartsila will be doing the work. Contractor is to bid on 552 hours assisting Wartsila FSR's one will be required for the duration of the overhaul 8 hr per day 7 days per week for 7 weeks = 392hrs. 2 personnel times 8 hrs per day times 5 days = 80hrs will be required to assist taking the front end of the engine to replace the vibration damper and put it back and assist the FSR to realign the front of the engine and re chock. Contractor to supply chockfast for this work. Contractor to supply 1 extra person for assisting when parts such as connecting rods, pistons and cylinder heads, machining equipment are to be taken on and off the vessel 1 times 8 hr day times 10 days = 80hours**

mmm. ED-03:

- Bidder asked if 400 hrs in section 3.1.5 is the total hours for both electricians. CCG: replied yes.
- Bidder asked if 80 hrs in section 3.1.6 is the total hours for both welders and fire watch. CCG: replied yes.

nnn. ED-04: no questions or comments.

ooo. ED-05: no questions or comments.

ppp. ED-06: no questions or comments.

qqq. ED-07:

- Bidder asked what is the work distribution for yard/FSR. CCG: Contractor to perform the work under the direction of the FSR.

rrr. ED-08:

- Bidder asked if the installation layout drawings exist, and is the yard going to do the work and give to Lloyds. CCG: will get back to the bidders.



---

**POST MEETING NOTE: CCG All cost for Lloyd's drawings surveyor approvals are owner costs not the contractor. No layout drawing exist yet Royce Rolls will supply at a later date. The contractor is to note that only the main controls are being removed and NOT the main starter panel or associated wiring. Only the controls to start/stop the main motor panel and control the thruster servo will be replaced. Contractor is to contact Rolls Royce to determine actual wiring requirements. The contractor is to bid on 150 hours of assist time for 1 dockyard person to assist FSR with placement of materials . Time to be adjusted by proof of time sheet and adjusted as needed by 1379. This is extra to the contractor personnel used for running of cables.**

- Bidder asked if transits are to be removed and replaced with cabling. CCG: For bidding purposes, all transits are to be removed and replaced, and include a unit cost for adjustment. CCG: we will supply the number of transits to bid on, and bidders to supply unit price to supply and install.

**POST MEETING NOTE: Contractor is to use a length of 50 meters for their estimate with 10 transits for the 24vdc feed. Actual run will be adjusted by 1379 action.**

sss.ED-09:

- Bidder asked if there was any specification of the Cu/Ni to be used. CCG: replied that it would get back to the bidders.

**POST MEETING NOTE: Bidder's to bid on using CuNi 70/30 (annealed).**

tth. ED-10: no questions or comments.

uuu. ED-11: no questions or comments.

vvv. L-01: no questions or comments.

www. L-02:

- Bidder asked how much cable is required. CCG: will get back to you on the cable requirements.

**POST MEETING NOTE: CCG contractor bid on cable runs which consist of approximately 25 meters per cable run. Each run has 2 transits per cable. There are 6 cable runs per generator (times three generator) for a total of 18 runs. There is 30 meters (times 6) of cable included with each governor upgrade kit.**

- Bidder asked who is to supply the equipment. CCG: replied that it was contractor supplied.

xxx. L-03:

- Bidder commented that Notifier system is referenced in H-05, and bidder asked if this was duplication. CCG: replied that the systems are tied together.



yyy. L-04: no questions or comments.

zzz. L-05: no questions or comments.

aaaa. L-06:

- Bidder requested that the deadline to consider an alternative supplier for ICS equipment be extended. CCG: suggested bidders to bid on Hose McCann system in the specification. CCG: Official way forward will be announced to bidders.

POST MEETING NOTE: CCG has evaluated the VINGTOR IP ICS system an equivalent system to the Hose McCann. Bidders can bid on either system.

bbbb. L-07: no questions or comments.

cccc. L-08:

- Bidder asked where the power pack is to be mounted. CCG: location is on the drawing.

dddd. L-09:

- Bidder commented that section 3.1.6 states that "existing wiring to be used" and in section 3.1.10, the contractor is instructed to replace cable runs. Bidder asked which are to be used for bidding. CCG: replied that it will get back to bidders.

**POST MEETING NOTE: CCG reply is that all cabling is to be replaced as per 3.1.10 note the contractor is responsible to for supplying all the wiring referred to in this specification. Note. 3.1.6 States that "existing wiring to be used". Delete "existing wiring to be used" from 3.1.6 .**

eeee. L-10: no questions or comments.

### PART 3

#### a. Varia

- Bidder asked when the minutes would be available. PWGSC indicated that it would try to make them available next week.

#### b. Closing comments

Solicitation No. - N° de l'invitation  
F7049-140286  
Client Ref. No. - N° de réf. du client  
F7049-140286

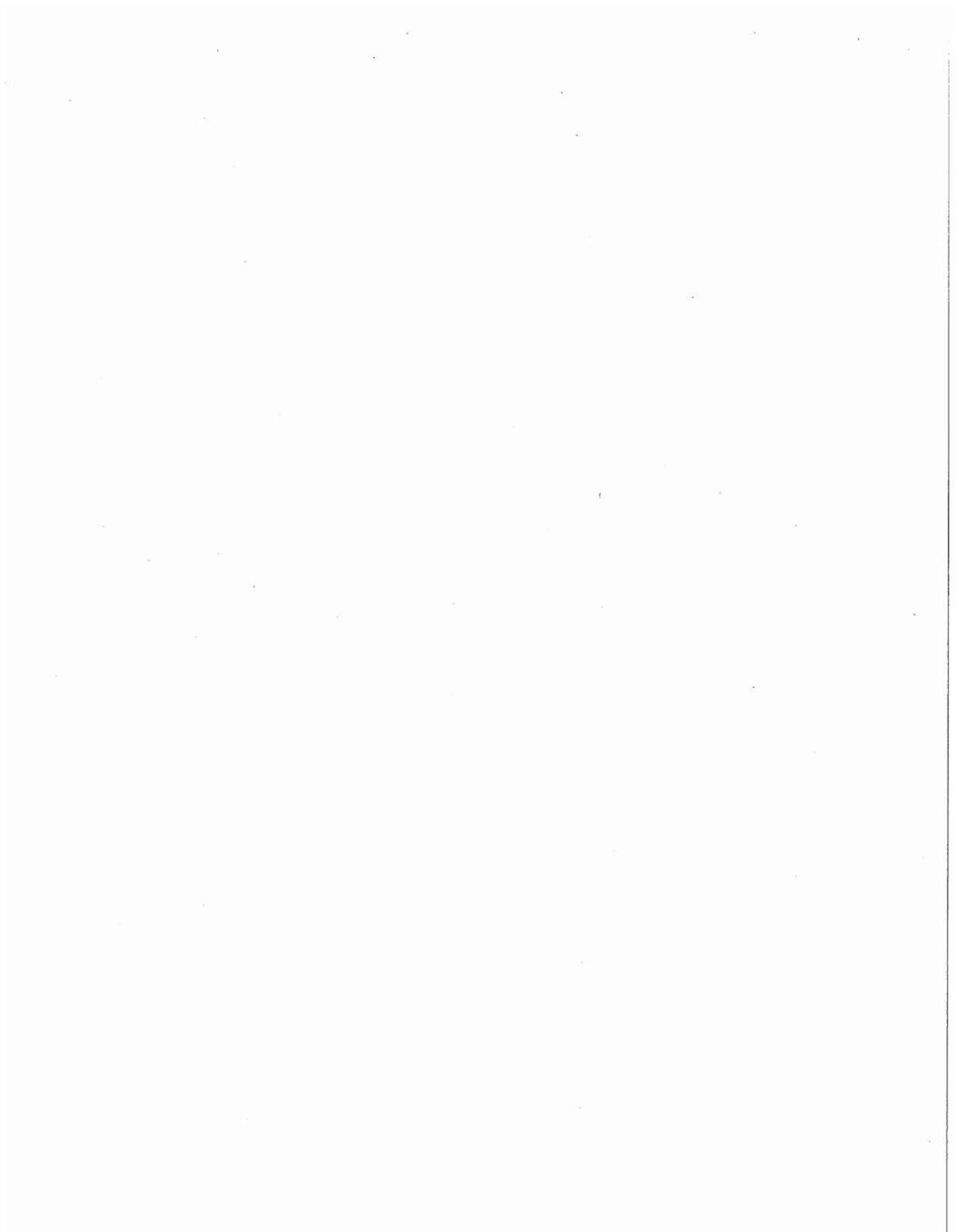
Amd. No. - N° de la modif.  
File No. - N° du dossier  
021md F7049-140286

Buyer ID - Id de l'acheteur  
021md  
CCC No./N° CCC - FMS No/ N° VME

- 
- PWGSC closed the meeting, thank all attendees for their participation in the bidders conference.
  - Meeting was adjourned at 4:37 PM.

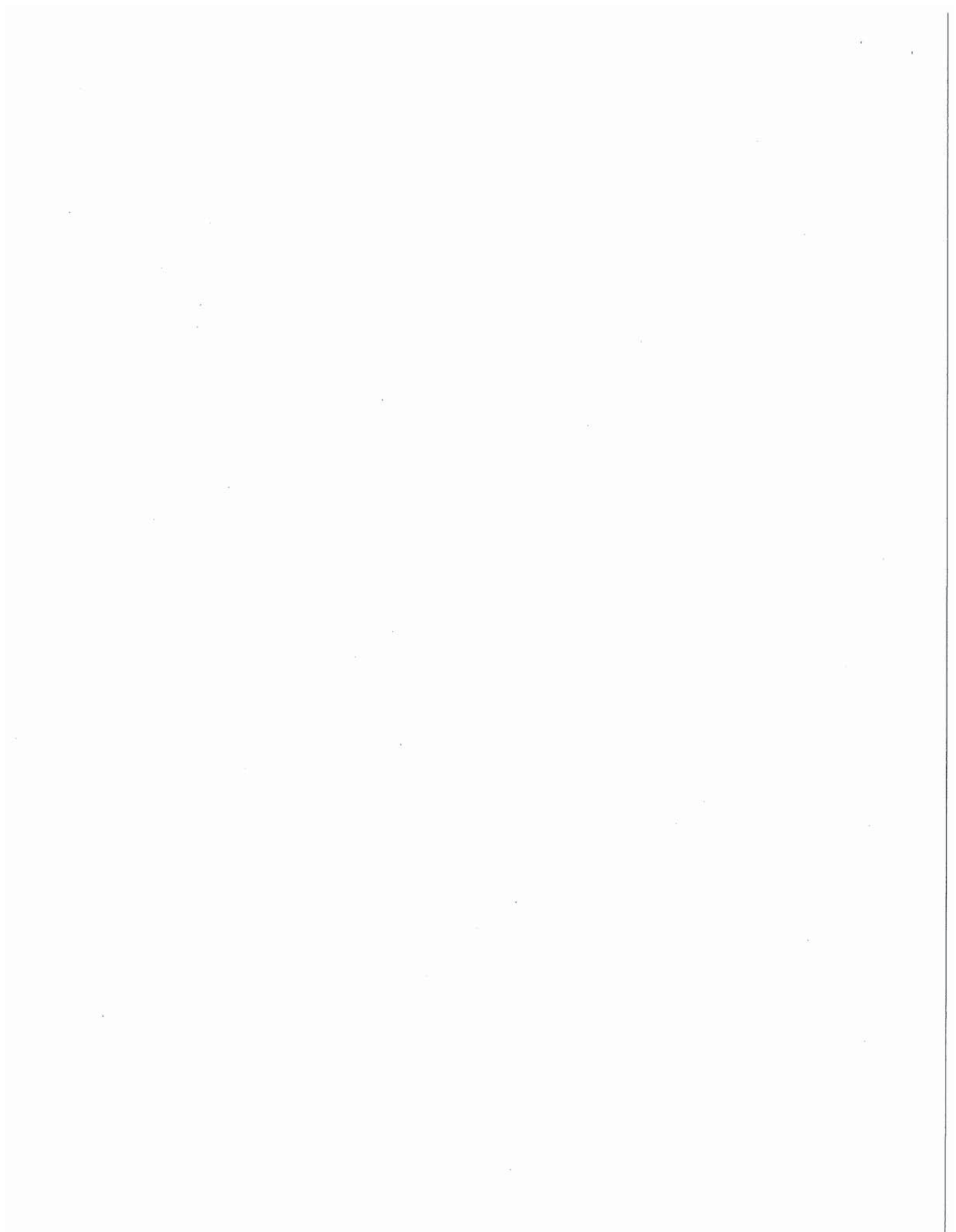
**Dan Byron**

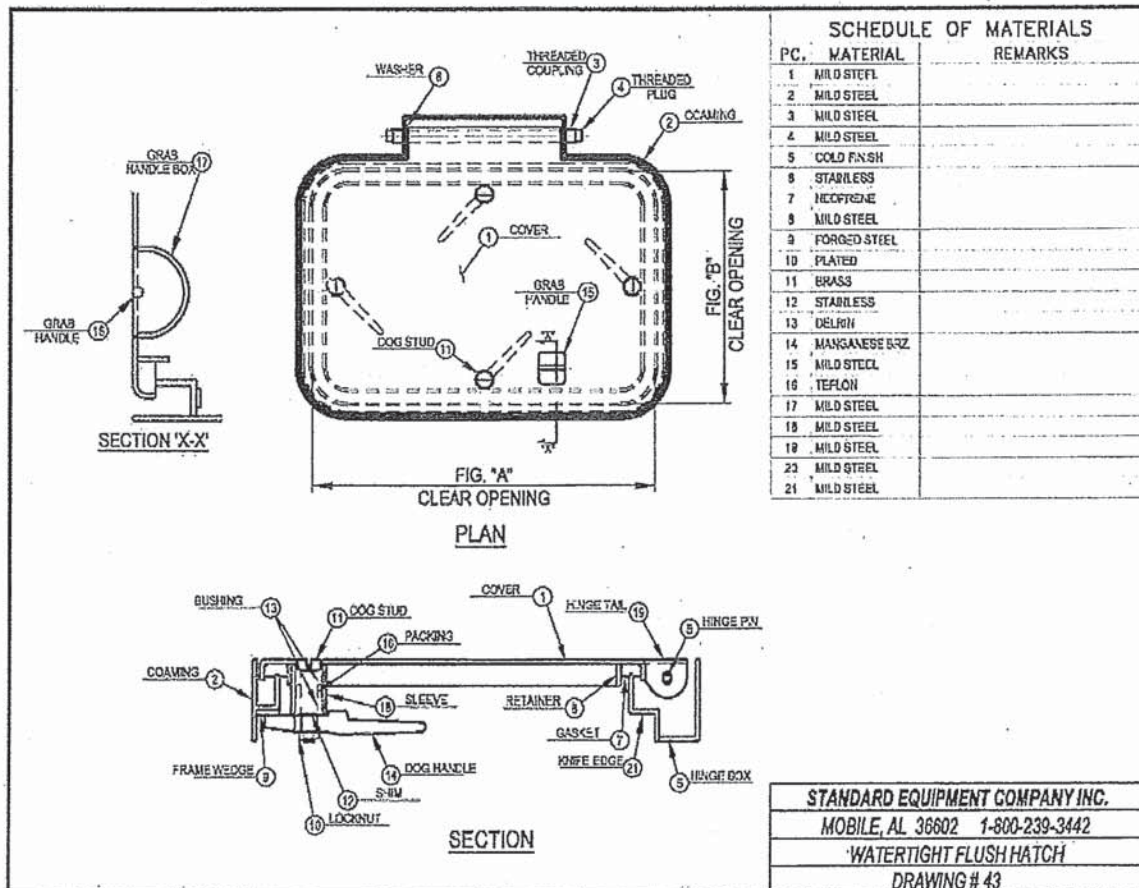
Contracting Authority / CCGS Cowley - VLE Refit 2015  
PWGSC  
819-956-0691





## H-11 – Additional Information







# Accessories

- Roller Assemblies for Spring Rewind Reels
- Utility Hose Rollers • Hose Guide

## Roller Assemblies for Spring Rewind Reels

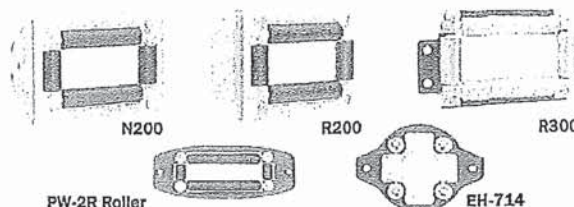
These 4-way roller assemblies are for use on the reel, on cabinet door openings, and for similar locations where sharp metal edges may cut or damage the hose/cable. Four-way design protects hose even when payout or rewind is at an angle.

The N200 and R200 roller assemblies have Delrin rollers mounted in stamped steel housings for flush panel mounting, reel mounting (R200) or right-angle mounting (N200).

The R300 roller assemblies have stainless steel rollers, Delrin bearing inserts, and zinc die-cast corner mounting blocks assembled on a steel mounting frame.

**To Order:** Specify part numbers: N Models for N Series reels, R Models for Channel Frame reels.

**Note:** A hose stop should be used with 4-way rollers to prevent damage to rollers and nozzles. See description on page 15.



	Roller Size	Roller Length	Roller Width	Roller Height
R203	8.0 x 5.5	203.2 x 139.7	2.5 x 2.0	63.5 x 50.8
R204	9.0 x 5.5	228.6 x 139.7	3.5 x 2.0	88.9 x 50.8
R205	10.0 x 5.5	254.0 x 139.7	4.5 x 2.0	114.3 x 50.8
R206	11.0 x 5.5	279.4 x 139.7	5.5 x 2.0	139.7 x 50.8
N203	5.5 x 5.5	139.7 x 139.7	2.5 x 2.0	63.5 x 50.8
N204	6.5 x 5.5	165.1 x 139.7	3.5 x 2.0	88.9 x 50.8
N205	7.5 x 5.5	190.5 x 139.7	4.5 x 2.0	114.3 x 50.8
N206	8.5 x 5.5	215.9 x 139.7	5.5 x 2.0	139.7 x 50.8
R306	11.25 x 7.0	285.8 x 177.8	5.5 x 2.38	139.7 x 60.45
R308	13.25 x 7.0	336.6 x 177.8	7.5 x 2.38	190.5 x 60.45
R310	15.25 x 7.0	387.4 x 177.8	9.5 x 2.38	241.3 x 60.45
PW-2R	9.75 x 3.75	247.7 x 95.3	5.13 x 1.13	130.3 x 28.7
EH-714	9 x 5.625	228.6 x 142.9	2.5 x 2.5	63.5 x 63.5

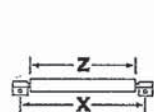
## Utility Hose Rollers

Stainless steel rollers and cast alloy brackets for use on the reel, on cabinet door openings, truck platforms, and similar locations where sharp edges may cut or damage hose/cable.

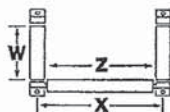
**Specifications:** 1-1/2" diameter stainless steel roller, stainless steel rod, Delrin bearings, alloy brackets, and required fasteners.

**To Order:** Specify Assembly A, B or C, and give distance between each pair of mounting holes (Dimensions X and Y) and length of each roller (Dimensions W and Z). W=Vertical Roller Length, Z=Horizontal Roller Length.

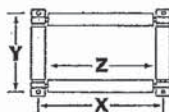
Also available factory installed on the reel.



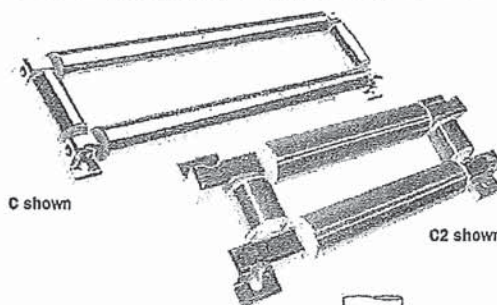
Assembly A/A2



Assembly B/B2

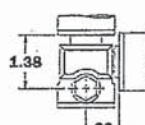


Assembly C/C2

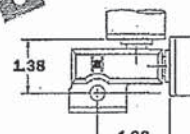


C shown

C2 shown



Assembly C



Assembly C2

## HG-15 Hose Guide for Small Frame Models

- Available for our 1500, 1600, and 1800 Series reels.
- Simple design to rewind hose evenly and neatly every time.
- No need to handle dirty or contaminated hose.
- Powder coated bracket, stainless steel guide rods, and nylon rollers assure long service life.
- Designed for aftermarket installation.

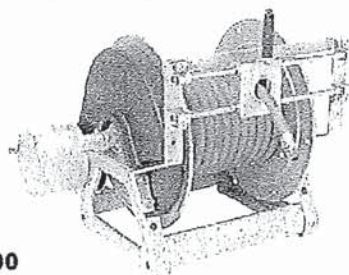
### Hose Guide Kit - HGK-15 Hannay Part Number 9956.2200

Kit includes HG-15 Hose Guide, handle grip, 2 stainless steel guide rods, 4 mounting blocks, steel mounting bracket set, and all mounting hardware.

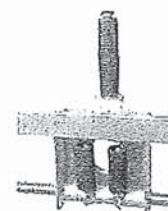
### Hose Guide - HG-15 Hannay Part Number 9956.2000

Assembled black powder coated hose guide and handle grip.

You must specify reel model when ordering.

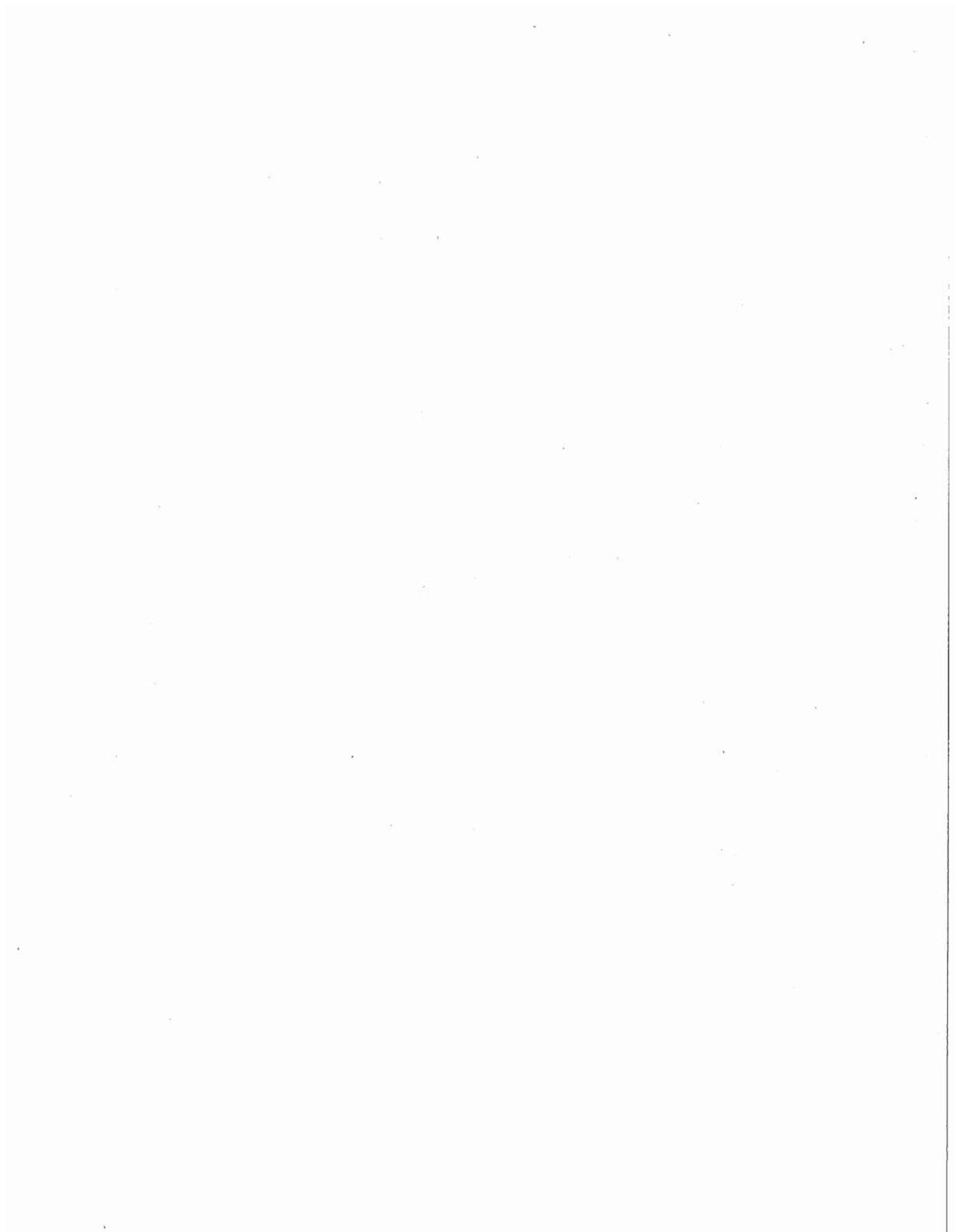


1500 Series shown



Back view of HG-15

## H-27 – Additional Information





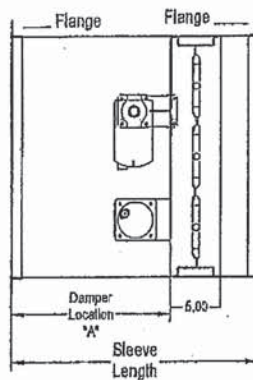
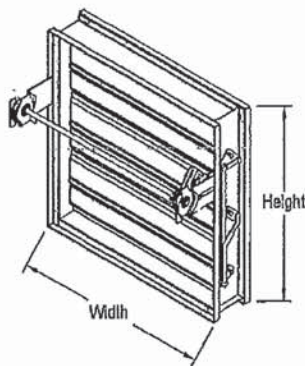
## Model: SSIMO-311

### Ratings and General Construction

Mounting:	Vertical	Axle Bearings:	304 SS	Velocity (ft/min):	2,000
Sizing:	Actual	Closure Device:	RRL	Closure Temp (°F):	165
Sleeve Length (in.):	16	Damper Loc. A Dim:	Standard	Frame Thickness (ga):	16
Blade Action:	Opposed	Flange Width (in.):	1.500	Flange Location:	Both Sides
Clean Wrap:	No				

### Actuator

Actuator Type:	24 VAC	Actuator Mounting:	External	Actuator Location:	Right Side
Actuator Mfr.:	Belimo	Fail Position:	Closed	Operating Mode:	Two Position
Cycle Time:	Standard	NEMA Enclosure:	1	Auxiliary Switch:	No
Pressure Rating:	4				



Notes: All dimensions shown are in units of inches.

(Add sleeve thickness for overall sleeved damper dimension)

### Application & Design

Model SSIMO-311 is a high performance 304 stainless steel combination fire smoke damper with extremely low leakage designed for marine application. High strength airfoil blades ensure the lowest resistance to airflow in HVAC systems with velocities to 4,000 ft/min and pressures to 4 in. wg. The SSIMO-311 may be installed vertically (with blades running horizontal) or horizontally and is rated for airflow and leakage in either direction.

### Ratings

#### USCG Approval

Fire Rating: A60 for all sizes

#### ABS Product Design Assessment

Fire Rating: A60 for single section dampers  
A30 for multi-section dampers

#### Performance Rating

Leakage Class: 3 CFM/ft<sup>2</sup> @ 1 in. wg or 6 CFM/ft<sup>2</sup> @ 4 in. wg

Operational Rating: Actual ratings are size dependent

Recommended Velocity: 2,000 ft/min consult factory for higher velocities

Max. Pressure: 4 in. wg

### Codes Approved

Model SSIMO-311 meets the requirement for fire damper established by:

ABS Type Approval Design Assessment (PDA)

Approval Number 1428466-154367

International Maritime Fire Test Procedure Code

USCG Type Approved 1408/05

Approval Number 164.139/0007/0

United States/European Union

MRA Listed (Ships wheel)

Installation Instructions available at [www.greenheck.com](http://www.greenheck.com).



Row ID	Tag	Qty	Width (in.)	Height (in.)	Drive Arrangement	Actuator Model	Act. Qty.	Sleeve Length (in.)	Sleeve Gauge (ga)	"A" Dim. (in.)
3-1		1	15.250	19.000	Drive-MLS-11-1FER-1	FSLF24	1	16.000	20	7.188
3-2		1	22.250	19.000	Drive-MLS-11-1FER-1	FSLF24	1	16.000	20	7.188

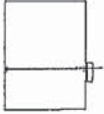
Total Qty: 2  
Total Number of Actuators: 2

---

Damper Drive Arrangements Job Summary -Start-

---

Drive Arrangement: Drive-MLS-11-1FER-1



---

Damper Drive Arrangements Job Summary -End-

---

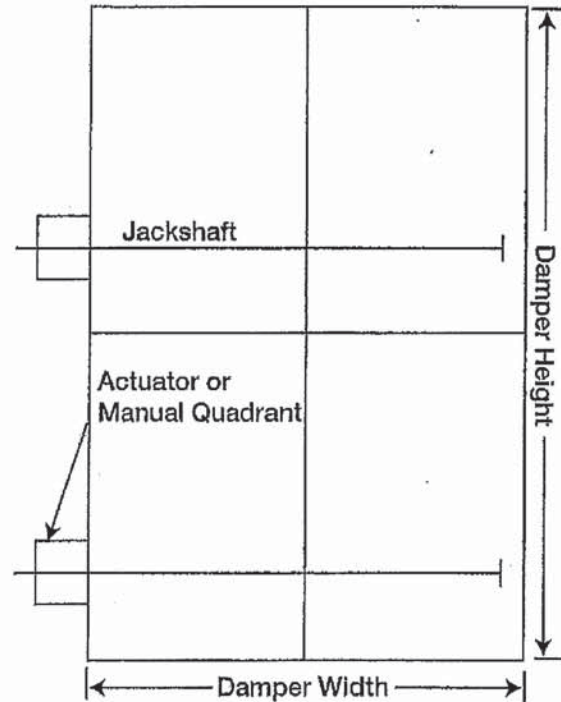
# Drive Arrangement Definition

On multi-blade dampers (except vertical blade and Face & Bypass), they are given a drive arrangement code that helps describe the construction of the damper. The following breaks down what each number and letter represents.

**22-2FEL-2**

① ② ③ ④ ⑤ ⑥ ⑦

- ① Number of sections wide
- ② Number of sections high
- ③ Number of actuators or manual quadrants
- ④ Who supplies the actuators or manual quadrants  
F - Factory  
C - Customer Supplied (field mounted)
- ⑤ Actuator or manual quadrant mounting  
E - External  
I - Internal  
B - Both Internal and external
- ⑥ Actuator or manual quadrant location  
L - Left hand drive  
R - Right hand drive  
B - Both right and left
- ⑦ Number of jackshafts



On vertical blade and face & bypass dampers, they are given a configuration ID number that helps describe the construction of the damper. See the following examples:

Model	Drive Arrangement Prefix
AMD-23, 33, 42	AMD
AMD-42V	VB
DFD-210, 230; DFDAF-310; DFDTF-210; SEDFD-210	MLS
FBH & FBV	FB
FSD, OFSD, CFSD, SMD, SEFSD, SSFSD, SESMD, SSSMD series (except vertical blade models)	MLS
FSD-311V, SMD-301V	VB
GFSD series	GFSD
ICD series	CC
IMO series	MLS
MBD-15 & VCD series (except vertical blade models)	CC
VCD-xxV (vertical blade models)	VB



## RRL Option

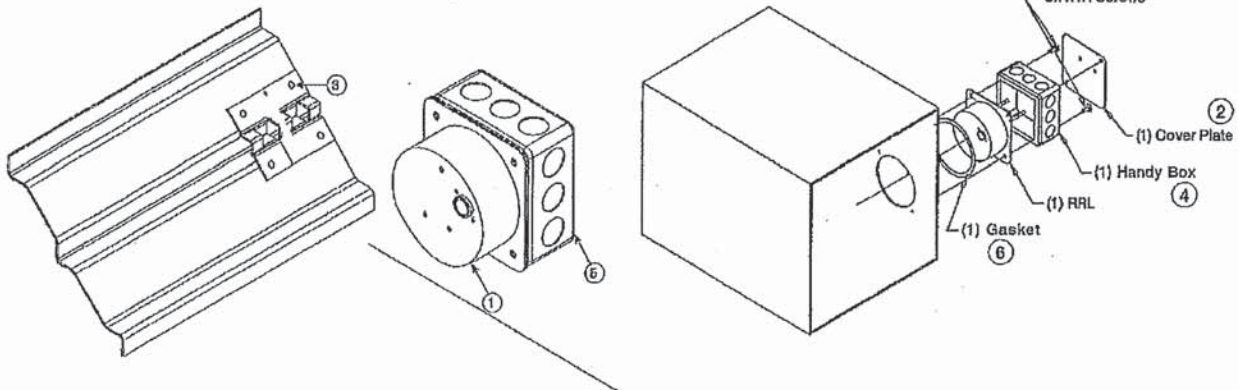
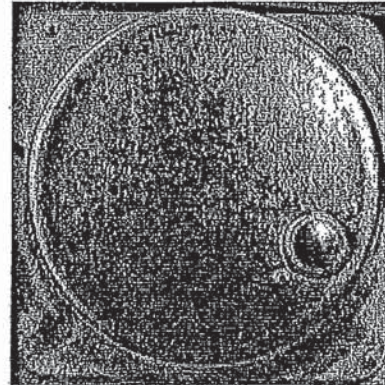
### Resettable Link Option for Combination Fire Smoke Dampers

#### APPLICATION

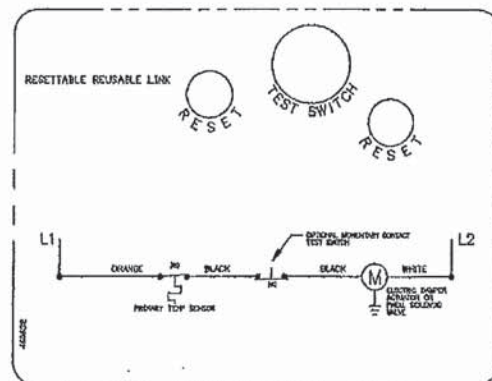
The RRL Option replaces the fusible link on a combination fire smoke damper with an electric sensor (thermostat). The sensor has a fixed temperature setting (usually 165° F [74°C]) and performs the same function as the fusible link that it replaces. The sensor interrupts power to the actuator and the actuator's spring return mechanism causes the damper to close.

The sensor is of the manual reset type and can be reset after the temperature has cooled down below the sensor set point. Before resetting any sensor, a careful inspection of the damper and sensor should be made as exposure to actual fire conditions may render these devices unusable.

This option requires factory installation of the damper actuator and factory wiring of the electric sensor to meet UL requirements for fire dampers. If the damper is equipped with a pneumatic actuator, an EP switch is required with an appropriate electric power circuit, to allow the electric thermostat to control the pneumatic actuator.

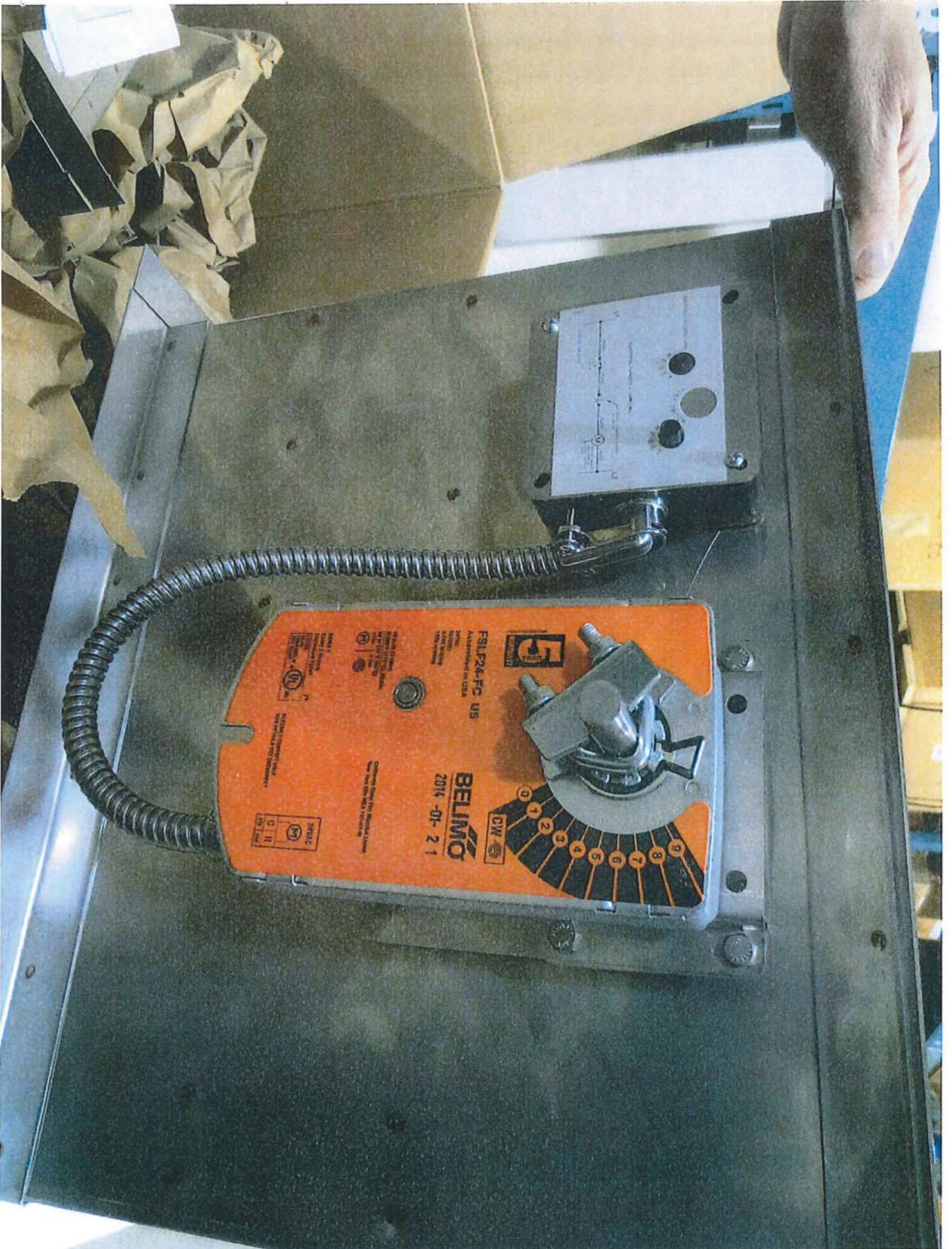


Item Number	Part Number	Qty.	Description
1	821278 (212°) 820734 (165°)	1	RRL Switch Box
2	380864	1	4 in. x 4 in. Cover Plate
3	415555	4	#10 Self Drilling Tek Screws
4	658593	1	4 in. x 4 in. Handy Box
5	460632	1	Label
6	370119	1	Gasket



WIRING DIAGRAM







**GREENHECK**

SO: 6872709 / 40.00 Qty: 1 of 1  
PO: 44132438  
Model: SSIMO-311-22.25X19



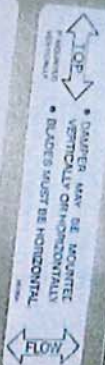
Actuator None

AMCA Label  
450157

JSCG approval No. 154.139/0007/G UL Label 468211  
See Greenheck's installation and operating instructions for this model.



13678  
DATE FEB 07-2019



6872709/40  
22.500 x 19