



Design Appraisal Document

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Date
03 June 2016

Please quote the document number on all future communications

Canadian Coast Guard
Mid Shore Patrol Vessel
Pumps Power Supply Modification
Electrical and Control Aspects

This Marine Design Appraisal Document supersedes and cancels document number ATS/4413149/E/001/PCF, Issue No.1, dated 3 June 2016.

1. The Documents listed in below have been examined for compliance with the electrical and control design and system arrangement requirements of the Rules and Regulations for the Classification of Special Service Craft July 2009, Part 16, Chapter 1 and 2 and the applicable parts of Canada Shipping Act 2001 - Ships Electrical Standards TP127E as applicable. and have been assigned an appraisal status as indicated subject to the following:

- 1.1 The changeover switches for the CPP Pressure Mainlining Pumps appear not to be fitted with an interlocking arrangements isolating power from main and emergency switchboards; therefore a notice is to be fixed warning personnel before gaining access to live parts of the switch. This is to be demonstrated to the satisfaction of the attending surveyor.
Part 6, Chapter 2, Section 5.3.7 refers

Action
AQS

Matthew Partyka
Surveyor, Electrotechnical Systems
Toronto Technical Support Office
Lloyd's Register Canada Ltd.

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Appendix

1. The documents listed below have been examined

Document No.	Rev.	Title	Status	Date
SB13AA	02	Emerg. Swbd 600V, 3Ph, Distribution Board	A	3 June 2016
SBZZDD	06	Emergency Switchboard Nameplates List 600V, 3Ph, Distribution Board	SI	3 June 2016
SB00BB	08	Content	SI	3 June 2016
SB09BA	08	MCC-PORT Unit 2-B SW Service Cooling Pump 2	A	3 June 2016
SB09DA	08	MCC – PORT Unit 2 – D Bilge/Fire Pump MMR Self Priming (1/2)	A	3 June 2016
SBZZDC	08	Main Switchboard Nameplates List 600V, 3Ph, Distribution Board	SI	3 June 2016
AF6094-32000-01	AF	(Sheet 2/10) Single Line Diagram	A	3 June 2016
AF6094-32000-01	AF	(Sheet 3/10) Single Line Diagram	A	3 June 2016
860-R-001	1	Report On Possible Electrical Source Change For Four Pumps	SI	3 June 2016
-	August 2011	Electrical System Short-Circuit Current & Protection Coordination Analysis	SI	3 June 2016

Appraisal Status Key

- A** Approved - provided the arrangements are to the surveyor's satisfaction
SI Retained as supporting documentation for information only

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