

Marine Cathodic Protection System Questionnaire

In order for our team to assist you in the design and / recommending a suitable cathodic protection system for your Marine Vessel, we have provided below a list of questions that will speed up the process of one of our Engineers better understanding your requirements plus providing us with many of the basic questions we will otherwise ask prior to making a recommendation to you on your corrosion management system.

1. What type of material is the underwater hull made of?
 Timber/steel/Aluminium/ Ferro Concrete (please circle)
 Other (please specify)
2. What type of vessel is the vessel in question?
 Pleasure motor yacht / sailing yacht / commercial work boat / trawler / passenger ferry /
 ocean going merchant navy vessel / vehicular ferry / tug boat (please circle)
 Other (please specify)
3. Length Overall in metres of the vessel (L_{OA}).....
4. Length Between Perpendiculars (LBP) in metres
5. Beam Moulded (Width) (B_M) in metres
6. Draft (Loaded) (Dr) in meters
7. Draft to bottom of Keel (if a yacht) in meters
8. Keel Material (steel / aluminium/ other) & if filled with ballast – type of ballast
9. Shape of Hull?
 1.0 Barge / 0.8 Typical Planning Hull / 0.7 Deep Vee Game Fishing Hull (please circle)
10. What type of hull is the vessel – monohull/multihull (how many)
11. Is the vessel under survey? Yes / No (please circle)
12. If under survey, nominate Survey Organisation
13. Is the vessel motorised? Yes /No (please circle)
14. What propulsion systems drive the boat and how many engines are fitted?
15. Is the propulsion shaft drives or other? Please specify.....
16. Diameter of Shafts (mm)?
17. How many propellers and shafts does the vessel have?
18. How many rudders does the vessel have? (Provide typical sizes)
19. Are shafts supported by A frame or other? Please specify.....
20. Are kort nozzles fitted?
21. Is the vessel driven by Propulsion Pods? Yes / No (please circle).....
22. If so, how many pods? + manufacturer & model of pods.....
23. Does the vessel have a Bow Thruster? Yes / No (please circle)
24. Does the Bow Thruster (BT) have anodes fitted? Yes / No (please circle) + Number & Size if anodes fitted to BT
25. Is the vessel fitted with stabilisers or similar equipment – provide details of manufacturer, model number etc.....
26. Is the vessel a New Build or an Existing Hull/ vessel?
27. If an existing hull, how old is the vessel?
28. What is your anticipated duty cycle – i.e., how many hours per month would you anticipate it will be motoring and in service?
29. Where will it normally be moored?
30. Will the vessel ONLY operate in sea water conditions or will it also operate in fresh or brackish water conditions?
31. If not always in sea water what percentage of time will it operate in brackish or fresh water?

32. What is the normal cruising speed the vessel would be expected to operate at?
33. What is expected maximum Speed Over Water?
34. What is the underwater hull coating system? E.g., Epoxy and antifoul or other – please specify.
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35. How old is the existing coating system?
36. Are all underwater metal surfaces coated? Yes / No (please circle)
Hull, Rudder/s, Skegs, Keel or Other immersed metallic components – please specify
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37. Is the vessel currently fitted with Sacrificial Anodes? Yes / No (please circle)
38. If anodes fitted, please confirm how many and what size and what alloy?
Aluminium, zinc or other – please specify
39. Is the vessel's ship to shore AC power connection fitted with a Galvanic Isolator (GI)? Yes / No (please circle)
40. If fitted with a GI, nominate brand, type, size and nominated electrical capacity.
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41. Is the sea water cooling system suctions direct injection or via a sea chest?
42. If there are Sea Suctions / Sea Chests, nominate how many and what size.
43. Are anodes fitted to Sea Chests, if so nominate size and type of anodes installed.....
44. Is the vessel fitted with any keel cooling system pipes? Yes / No (please circle)
45. If keel cooling is fitted, please provide details.
46. Does the vessel have permanent DC power supply (24/7)? Yes / No (please circle)
47. If DC is available, is it a 12/24 or other DC voltage system?
48. Does the vessel have AC reticulated around the vessel? Yes / No (please circle)
49. Is AC power permanently available (24/7)? Yes / No (please circle)
If not please nominate nature of AC supply.
50. Is permanent Wi-Fi available? Yes / No (please circle) Is Internet access available? Yes/No (please circle)
51. Is it permanently moored?
Provide details of mooring lines and or mooring piles – such as length and material.
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52. What is the regular programmed dry docking / slipping cycle of the vessel (in months)
53. Any other information considered relevant should be noted below and attached to this answered questionnaire.
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