

New Guidance fuel cell system on board of ships

■ Summary of Major Amendments

Related Rules/Guidance	Effective date
Guidance fuel cell system on board of ships, Guidance for Approval of Manufacturing Process and Type Approval, Etc.	1 Jul. 2022 (Date of the application for approval)

■ Major Amendments

○ Reason for Amendments

1. It is necessary to clarify the type approval requirements for fuel cell modules and fuel cell power installation.
2. Many of the small ship hydrogen projects currently being researched are considering fuel containment of compressed hydrogen gas (composite material pressure vessel) technology that has been sufficiently tested for safety by being applied onshore. Accordingly, it is necessary to establish new approval requirements for composite material pressure vessels for fuel containment of compressed hydrogen gas.

○ Amendments

1. Added type approval for fuel cell module.
2. It has been amended to increase or decrease the requirements of type test in consideration of the various technologies and types of fuel cells and operating conditions in the ship environment.
3. Add the requirements for composite material pressure vessels for fuel containment of compressed hydrogen gas.
4. The requirements for composite material pressure vessels for fuel containment of compressed hydrogen gas have been newly established.

○ Impact Analysis

- ✓ Indication of any impact on and/or contribution to safety, security or environmental protection

: By adding the specific requirements for the approval of fuel cell modules and compressed hydrogen composite material pressure vessels, it contributes to increasing the safety of hydrogen-powered ships that lack prescriptive requirements.

✓ Indication of any impact on net and gross scantlings

: N/A