

標題

USCG 発行の Marine Safety Alert (燃料危急遮断弁の検査)について

ClassNK

テクニカル インフォメーション

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各位

USCG は、PSC Inspection において、燃料タンクの危急遮断弁が意図的な固定、改造又は整備不良で非常時の作動を妨げられている事例が多く発見されたため、燃料危急遮断弁の検査に関する Marine Safety Alert (Alert01-11)を発行しました。

USCG は、船主/運航会社、船舶機関士、PSC 検査官、船級協会及びその他の機関区域検査員に、危急遮断弁は遠隔で遮断できること、整備計画書を備えること及び乗組員は非常時の操作について認識していることを確実にするよう、強く要求しています。

PSC Inspection では、乗組員は整備要件を説明できること、整備及び作動テストの記録を備えること、また、危急遮断弁の作動テスト及びリセット方法を説明できること、操作の重要性を理解していることが要求されます。

なお、本件に関してご不明な点は、以下の部署にお問い合わせください。

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添付:

1. MARINE SAFETY ALERT (Alert 01-11)

NOTES:

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January 31, 2011
Washington, DC

Alert 01-11

INSPECTION OF FUEL OIL QUICK-CLOSING VALVES

U.S. Coast Guard Port State Control Officers (PSCOs) are discovering Fuel Oil Quick-Closing Valves (QCVs) intentionally blocked, modified, and poorly maintained preventing them from operating as designed during an emergency.

QCVs are positive shutoff valves on fuel oil systems serving to isolate fuel tanks in the event of a fire and also prevent “fueling” of a fire in circumstances where system piping and components are compromised. In some circumstances they could be the only means of securing the fuel to a flammable liquid fire. These valves are designed to be remotely operated. Inoperable QCVs create a very serious hazardous condition putting the vessel and its crew at greater risk in the event of a fire. Blocking or disabling these valves is unacceptable under any circumstance. It is absolutely critical that they operate correctly, are maintained, and ready for use at all times. Proper routine maintenance, and in some cases approved modifications and / or replacement of components may be necessary to ensure reliability of the remote operator and closure of the valve.

Owners /operators, vessel engineers, PSCOs, Class society and other machinery space inspection personnel must fully understand the critical nature and importance of QCVs and associated systems. Crewmember knowledge of testing, operation, maintenance and repair, in addition to related documentation and required spare parts are essential elements to evaluate during an inspection. International regulations require that positive shutoff valves located outside the fuel tank be capable of being closed from a safe position from outside the space concerned..

The U.S. Coast Guard **strongly recommends** that owners /operators, vessel engineers, PSCOs, Class society and other machinery space inspection personnel ensure:

- a) The QCV operating system is capable of remotely closing all valves as designed; some systems close valves sequentially and others simultaneously.
- b) There is a maintenance plan in place including technical manuals containing diagrams and information that describe the system components, required spare parts, operation, maintenance and repair.
- c) That all engine department personnel can identify the location of each valve, the respective remote closure and how to close them locally and remotely in an emergency.

Note: During Coast Guard PSC Exams, vessel engineers should be able to explain maintenance requirements of the system, and provide operational test and maintenance records. Engineers should be able to describe how test the valves, reset them after closure, and understand their operational importance. Vessels with inoperable QCVs may be subject to an operational control.

This safety alert is provided for informational purposes only and does not relieve any domestic or international safety, operational or material requirement. Developed by the Office of Foreign and Offshore Vessel Compliance Division (CG-5432), United States Coast Guard Headquarters, Washington, DC.

Examples of QCVs held in the open position:



QCV blocked utilizing a bolt to hold in the open position. (Note: the painted portion on the bolt indicating possible long term condition.)



QCV blocked utilizing wire to hold closing weight up and the valve in the open position.



QCV blocked utilizing a wooden block to hold the valve in the open position.

Photos are courtesy of U.S. Coast Guard Sector New Orleans

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