

**Protect
your
crew
and assets.**

**Crummock
delivers
without
compromising
production.**

The growing threat of piracy means protecting your crew and assets is vital. Crummock has earned an international reputation for combating this threat.

Pirates or terrorists attempting to board or hijack vessels is not restricted to moving vessels. Stationary oil and gas facilities offer prime targets for valuables, IT equipment and hostages for ransom. The consequences of these actions are detrimental to the well-being of your crew and the negative publicity can compromise your brand and share price. Just as the safety of your crew is paramount, so too is the protection of your facilities and continued oil and gas production.

Crummock is leading the field in providing pre-emptive security systems to protect your people and business. Crummock can provide the design, fabrication and on location installation of security solutions that can include: threat detection, boarding prevention, access restriction, and a citadel (safe area) using certified bullet-proof doors and portholes, in the living quarters of your offshore oil and gas facilities. Should pirates board your facility, your crew will be safe until rescue services arrive.

Design, supply and installation of detection systems, security lighting, CCTV and access control can be incorporated into our solutions to suit your requirements.

Design of the citadel is undertaken in the United Kingdom. Replacement doors and windows are designed and fabricated in the UK.

Certification and classification is to A60, ABS, Lloyds, DNV and MED and bullet-proof to UL752. Higher levels of ballistic certification are available.

Crummock's UK trained tradespeople undertake the offshore installation with minimal disruption to normal operations.

Multidisciplinary tradespeople reduce the need for multiple visits and reduce accommodation requirements.

**Topside
security
solutions
to protect
crew.**

**On
location
upgrades
to extend
asset
life.**

**To protect your crew and assets,
contact Crummock by phone, email
or through our website.**

**t (+44) 1875 823 222
e info@crummockoilandgas.com
w www.crummockoilandgas.com**

**Refurbish
your
living
quarters.**

**Crummock
delivers
without
compromising
production.**

**Crummock excels at extending the life of your offshore assets
and we have been instrumental in substantial upgrades to Living Quarters.**

We deliver changes to the Living Quarters including the upgrade, or if necessary the construction of new galleys, the provision of cold, freezer and dry stores, HVAC systems, accommodation, washrooms and flooring.

Any assemblies that require construction are designed, fabricated and test-assembled in Scotland and then dismantled, shipped out, reassembled and installed by our own United Kingdom trained tradespeople. Our extensive experience and working practices ensure that complex refurbishments to extend the life of your assets don't compromise your production targets. Your asset stays on location whilst we refurbish.

Crummock's UK trained tradespeople undertake the offshore installation with minimal disruption to normal on-board operations.

Multidisciplinary tradespeople reduce the need for multiple visits and minimise accommodation requirements.

Design, fabrication and testing in Scotland with Scottish precision engineering using the finest quality materials.

Requirements analysis and site survey to tailor our solution to your requirements and to your asset.

Contact us on (+44) 1875 823 222 or email info@crummockoilandgas.com to discuss your requirements.

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**Replace
those
leaking
water pipes.**

**Crummock
delivers
without
compromising
production.**

The health and safety of your crew is of paramount importance especially when they are living and working hundreds of miles offshore.

Clean, fresh water is essential and Crummock knows how to combat the dangers inherent in providing this vital service. Bacterial infection of potable water supplies is prevented by chlorination. Running chlorinated water through copper and zinc piping, however, produces an electrochemical reaction that rots the pipes, resulting in heavy corrosion, leaks and blockages. This in turn produces dangerous and dirty water.

Apart from the health and safety issues, the danger of corroded piping also has a detrimental impact on the morale of the crew, which can then impact on production. Crummock will replace all your leaking or corroded pipes with composite piping. Composite piping offers a more cost-effective solution to traditional materials and leads to lower life cycle costs with minimal maintenance.

Quicker installation as our composite pipes use quick patented compression fitting and are easily contoured and bent.

Crummock's United Kingdom trained tradespeople undertake the offshore installation with minimal disruption to normal on-board operations.

Greater safety during replacement because patented compression fittings means pipe connections are crimped, therefore no hot work is required.

Multidisciplinary tradespeople reduce the need for multiple visits and reduce accommodation requirements.

Full certification for use offshore by ABS, DNV and Lloyds.

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