

## Offshore Flare Inspection and Maintenance

Argo Flare Services has a vast amount of onshore and offshore flare inspection experience. Two of our engineers between them have more than 60 years of flare inspections behind them. Ray Seale and Paul Sharman will probably be recognised by many of those who have been actively involved in offshore flare work.

Ray and Paul both come from one of the North Sea's largest flare vendors and have undertaken many offshore inspection and trouble-shooting visits. They have worked alongside contractors such as AMEC, Statnett and Sparrows during flare change-outs.

Ray and Paul are both familiar with the working practices of most major operators, and have undertaken flare inspections for many operators including; BP Amoco, Marathon, Mærsk, NAM, Norsk Hydro, Occidental, Statoil, Shell. For a complete list of inspections, please refer to the reverse side of this information sheet.

### Flare Service and Inspection related activities:

- Inspection and Maintenance of all suppliers and types of flare systems
- Attend pre-shutdown meetings to discuss scope, equipment, timing etc..
- Provide onsite flare inspection along with detailed report, including observations, photographs and any recommendations
- Provide photographic and fly-by inspections – possibly using regular transfer flights
- Review and identify stock held in stores, highlighting short falls prior to a shutdown
- Catalogue spares across assets to identify any inter-changeability (and limitations) for contingency spares
- Refurbish old stock for replacement/contingency spares
- Immediate advice on flange bolting and gasket combinations, both within package and at client vendor interface. Provide associated torque values
- Recommend material and/or design changes to improve flare life expectancy
- Work alongside contractors prior to and during change-out to ensure smooth execution

You may be concerned about the recent turmoil within the flare industry, but let us assure you that the skills base is not reduced, it has just been relocated.

At Argo Flare Services, we are here to help and support you whatever your flare requirements. If the above information does not cover your areas of concern, please contact us, if we can't help you we can point you to a company that can.

To contact us please use the office details at the foot of this page or contact us directly on:

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# Argo Flare Services

## Offshore Flare Inspection and Maintenance



### Previous Offshore Flare Inspections include:

United Kingdom	Europe / Norway
<ul style="list-style-type: none"> <li>➤ Amerada Hess; Scott</li> <li>➤ BHP; Douglas</li> <li>➤ BP Amoco; Buchan, Bruce</li> <li>➤ Forties 'A', 'B', 'C' &amp; 'D'</li> <li>➤ Magnus, Miller</li> <li>➤ N.W. Hutton</li> <li>➤ Seillean (SWOPS)</li> <li>• Marathon; Brae 'A' &amp; 'B'</li> <li>➤ Occidental; Piper 'A'</li> <li>➤ Shell; North Cormorant, Brent 'D'</li> <li>➤ TFE; Claymore 'A'</li> <li>➤ Total; North Alwyn 'B'</li> </ul>	<ul style="list-style-type: none"> <li>➤ Amoco; P15</li> <li>➤ BP Norway; Ula</li> <li>➤ Mærsk; Tyra E &amp; W</li> <li>➤ Harald West</li> <li>➤ NAM; F3 platform</li> <li>➤ Norsk Hydro; Oseberg</li> <li>➤ Norske Shell; Draugen</li> <li>➤ Saga Petroleum; Snorre</li> <li>➤ Statoil; Sleipner SLA</li> <li>➤ Troll 'A'</li> </ul>

### Previous Onshore Flare Inspections include:

United Kingdom	Europe / Norway	World Wide
<ul style="list-style-type: none"> <li>➤ BP Amoco; Grangemouth</li> <li>➤ Wytch Farm</li> <li>➤ Corus (British Steel); Scunthorpe</li> <li>➤ Mobil North Sea; SAGE, St Fergus</li> <li>➤ Texaco; Pembroke</li> <li>➤ Total; St Fergus</li> </ul>	<ul style="list-style-type: none"> <li>➤ BEB; Uelsen</li> <li>➤ Dow; Terneuzen</li> <li>➤ IVG; Etzel</li> <li>➤ Nerefco; Rotterdam</li> <li>➤ Q8 Oil; Rotterdam</li> <li>➤ Statoil; Kårstø</li> <li>➤ Mongstad</li> <li>➤ Troll Kollsness</li> <li>➤ TWEL; Humbly Grove</li> </ul>	<ul style="list-style-type: none"> <li>➤ ADGAS (UAE); Das Island</li> <li>➤ ADMA OPCO (UAE); Das Island</li> <li>➤ EPMI; Jerneh</li> <li>➤ Slugcatcher</li> <li>➤ Esso Canada; Bonnie Glen</li> </ul>

We also have a comprehensive list of flare commissioning that has been previously undertaken. Please contact us for further information.

### Other Services Include:

- New flare systems
- Refurbishment of existing flare systems
- Aerial flare inspection surveys
- Flare studies – process, noise, radiation, flare system hydraulic analysis, etc.
- Specialist advice on flare tip change-out, including specialist helicopter flare change out services by Vertech Offshore AS. (formerly Statnett Entreprenør AS)
- Specialist advice services for ultrasonic flare metering, flare gas recovery