



THE INSPECTION SPECIALISTS

**INSPECTAHIRE** is one of the UK's leading suppliers of specialist remote visual inspection technology and solutions to companies around the world. Inspectahire have become experts in carrying out Fire Pump inspections. They have a large amount of experience successfully carrying out this form of inspection. Often a CVI (close visual inspection) is the most appropriate way to determine the condition of the subject. Inspectahire have a large range of technology capable of carrying out such an inspection, for example a Bowtech Bullet Camera is very effective.



**FIREWATER PUMP INSPECTION**

Inspectahire were asked to carry out a CVI (Close Visual Inspection) of the Firewater Pump 3201B on a large offshore platform on behalf of major Oil company. The pump itself was located in the pump room which was under cover. Access to the Pump Discharge Column Internals was facilitated by the removal of a section of the discharge pipework.

A total of thirteen Flanges were observed down to the Pump. There were a few flanges seen with missing bolts they were :

- Flange 1 – One Bolt missing
- Flange 2 – Two Bolts missing
- Flange 8 – One Bolt missing
- Flange 9 – One Bolt missing
- Flange 11 – One Bolt missing

The Pump Suction Basket was observed to be covered in a lot of Marine Growth. The Caisson Guard Rails were missing and what looked like a Tear / Split was seen at the bottom section of the Outer Caisson. All of the rest of the Flanges looked to be in good condition with all of the bolts that were observed intact, and no gap was seen in the Flange.

**RISER FIREWATER PUMP INSPECTION**

Inspectahire were asked to carry out a CVI (Close Visual Inspection) survey of a Riser Firewater Pump. The Pump Discharge Column External on the North Everest Platform.



*Flange 2: Appears in good condition everything intact*

Riser Firewater Pump was located on the CATS Riser platform over the walkway from the North Everest Platform. There was four previously drilled vent holes in the Caisson. A scaffold was built to allow access to these access points. The four holes were all inspected to look at the condition of the Flanges and Bolts and also the tabs on the bottom side of the Flange. The Flanges were numbered from the Lower Deck level to keep all the External Inspections the same.

The ESD Deck Level Vent access points had two flanges above them. These two flanges were inspected with the Bowtech Bullet Camera. A total of Eighteen Flanges were observed down to the end of the Pump Column. All of the Column Flanges looked to be in good condition with all of the bolts that were observed intact, and the tabs for the bolts that were observed were in place. The three sections of the submersible Pump were seen to have all their bolting in place. The Pump Suction basket was also seen to be clear with no blockages noted.

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A considerable amount of marine growth was seen in the lower section of the Caisson.

Inspectahire deployed a number of techniques and technology to carry out the successful Fire Pump inspection firstly a borescope inspection was required. Access was gained via the caisson vents, all the observed bolting was in place and intact, no gaps were noted in the flanged joints and observed tab.

A permit was then issued to carry out a further two Bowtech Camera runs in the adjacent vent holes, the scaffold access platform was reconfigured to allow access to the other vent holes. The inspection was carried out, particular attention was paid to the individual flanged joints.



*Safety Bars: Intact in position although marine growth shown*

All the flanges were inspected including the three pump stages, a suction basket was inspected all the holes observed in the basket were found to be clear with no blockages noted. The camera was then taken to the end of the caisson for conformation that the safety bars were still in place, although there was a lot of marine growth the bars could be seen in position.



*An example of the Bowtech Camera often used in Fire Pump inspections.*