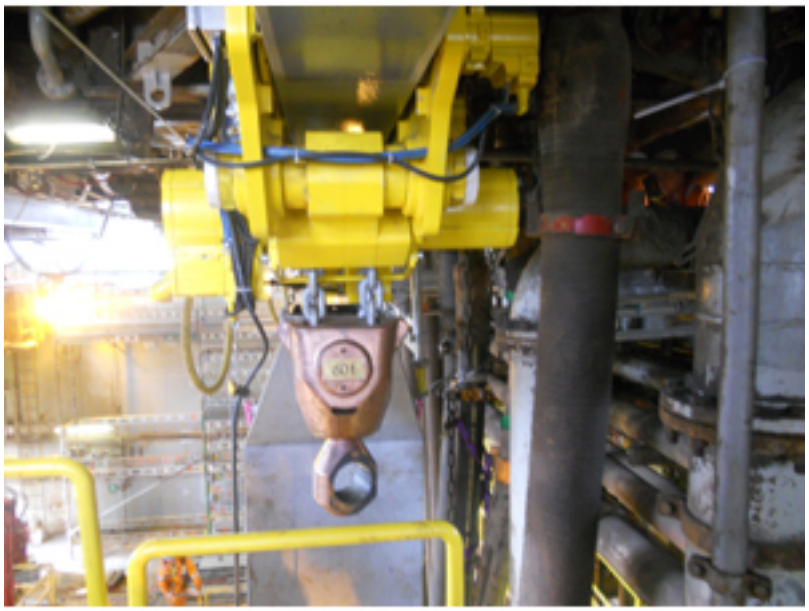
Satisfaction with Offshore BOP Handling



Four J. D. Neuhaus EH 60 air-operated monorail hoists supplied for offshore blowout preventer (BOP) handling have completed 12 months of satisfactory operation to customer requirements and have also successfully passed their first annual inspection. These hoists were supplied and initially mounted in Norway by Westcon Løfteteknikk AS (WCL) at the Westcon yard, and were designated for eventual location on the Seadrill West Epsilon rig, which is classified as a DnV, + 1A1 self-elevating mobile offshore unit.

The hoists, each providing a 60-ton lift capacity, were required for the synchronized handling during both pre- and post-drilling operations of a new 120-ton BOP unit supplied to the rig. Each hoist was fitted with load eyes instead of hooks, and provided a total lift height of 17.4 meters with four chain falls. They also provide a 0.5 meter/minute lifting speed under full load, with a designed trolley speed of 12 meter/minute for horizontal travel movements.

Each hoist was also equipped with a pendant controller to accommodate synchronized operation of the lift, lower and travel movements for all hoists. The hoists were required to be suitable for use in an Ex area with ATEX zone 1 with gasses IIB, together with full offshore execution for weather protection etc.

Built-in safety features for the products include an emergency air supply shut-off valve in each pendant controller, together with fail-safe brakes to hold a load safely if the air supply is interrupted. Both anti-climb and anti-drop devices are also incorporated.

The latest J. D. Neuhaus emergency lowering device was also specified for the individual hoists. This equipment facilitates, in the event of an interruption or total failure in the air supply, the safe lowering of a suspended load under controlled speed to a safe grounding position. This is achieved by the installation of a reserve air supply reservoir on each hoist. These are maintained at full air pressure throughout normal hoist operations, and contain a sufficient air supply to effect a safe load lowering operation following the loss of mains air. These safety devices ensure compliance with forthcoming Norsok regulations.

The EH 60 hoists supplied form part of an extended range of low air consumption monorail hoists manufactured by J. D. Neuhaus. This product range covers individual lift capacities ranging from 10 to 115 tons, with optional air or hydraulic operation being available. All hoists are tested with 25 percent overload with appropriate certification. Their compact, low-headroom design is conducive to operation within confined or restricted spaces, with hoists being operated individually, combined in tandem or parallel running on overhead beams to suit a wide range of operating requirements.

The standardized features of the range include:

1. An Ex II 2 GD IIA T4/Ex II 3 GD IIB T4 rating suitable for working in hazardous areas with explosion risks.
2. A resistance to humidity and dust, and operational temperatures from -20° to 70°C.

3. Availability of worldwide service.

Optional features include:

1. Increased spark protection.
2. A rack and pinion drive.
3. Overload protection.
4. Two-speed trolley travel control.
5. A filter silencer.
6. An offshore execution package available for maximum protection under rough weather and salt-laden conditions.
7. Ultra-low headroom.
8. Load monitoring, plus remote or radio controls.
9. Special custom designs, including a cryogenic version for temperatures down to -45°C.

Westcon Løfteteknikk AS is an authorized Norwegian sole importer of J D Neuhaus lifting and handling equipment.

For more information, please visit www.jdngroup.com *[1].*

Source URL (retrieved on *03/31/2015 - 2:52pm*):
http://www.chem.info/articles/2013/01/satisfaction-offshore-bop-handling?qt-most_popular=0

Links:
[1] http://www.jdngroup.com/