
Transocean
India Operations
Drillship
FATALITY REVIEW

Drillsafe Forum
September 6th 2006

Incident Summary

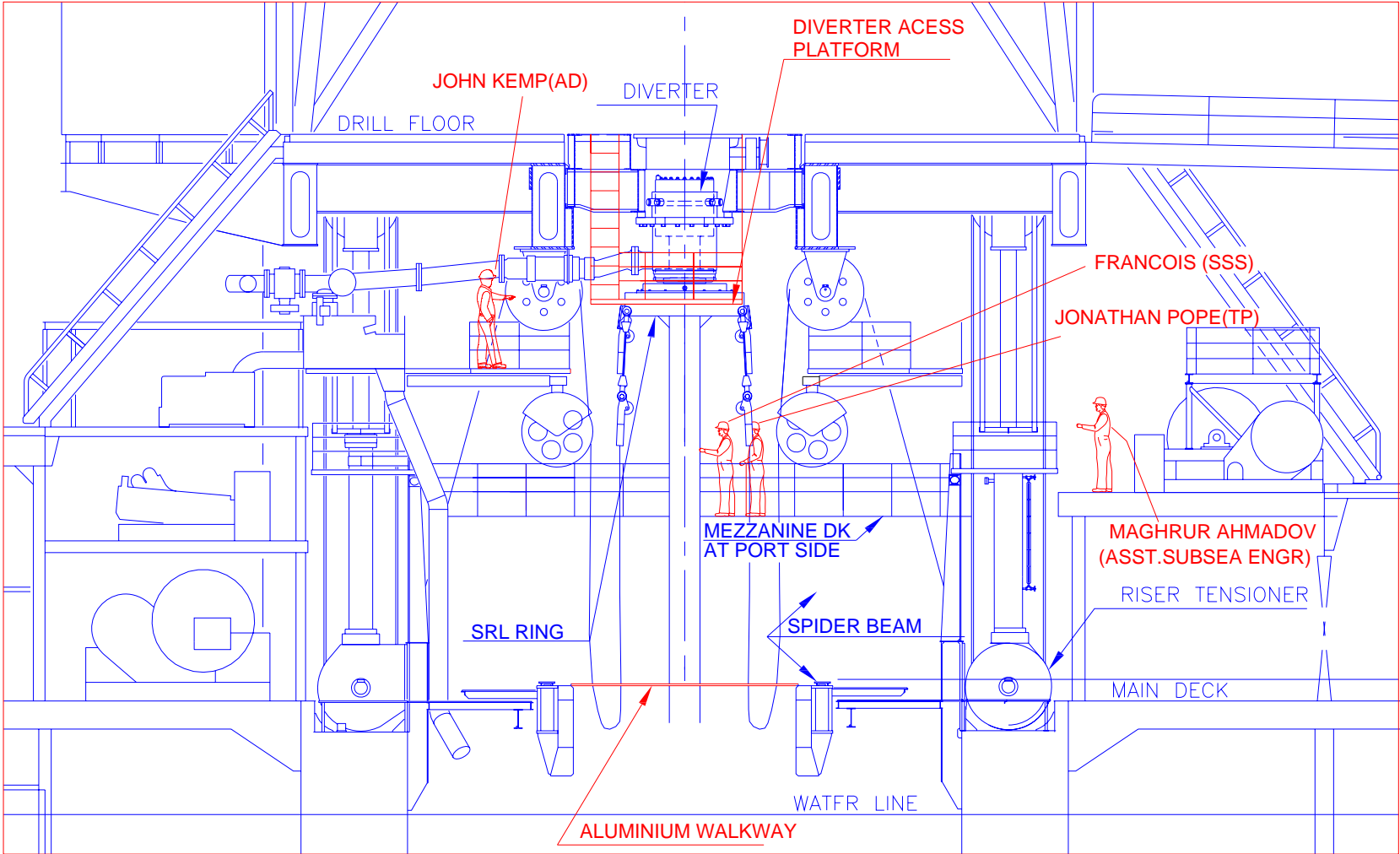
- **Date / time** : 10th February, 2006 – 09h:20 hours
- **Rig** : Drillship
- **Name** : Praveen
- **Age / Marital status** : 31 Years / married with 1 son
: Position Floor hand
- **Seniority** : 2 Years
- **Operator** : National Oil Co.
- **Place of Occurrence** : Ladder to Diverter Access Platform
under Rig Floor, above Moonpool.
- **Intended Operation** : Release and lower the Riser Tensioner
Ring
- **What happened** :

While descending a ladder via a hatch in the drill-floor to an access platform beneath it, Praveen slipped and fell into the moon pool. He went under water and did not re-appear

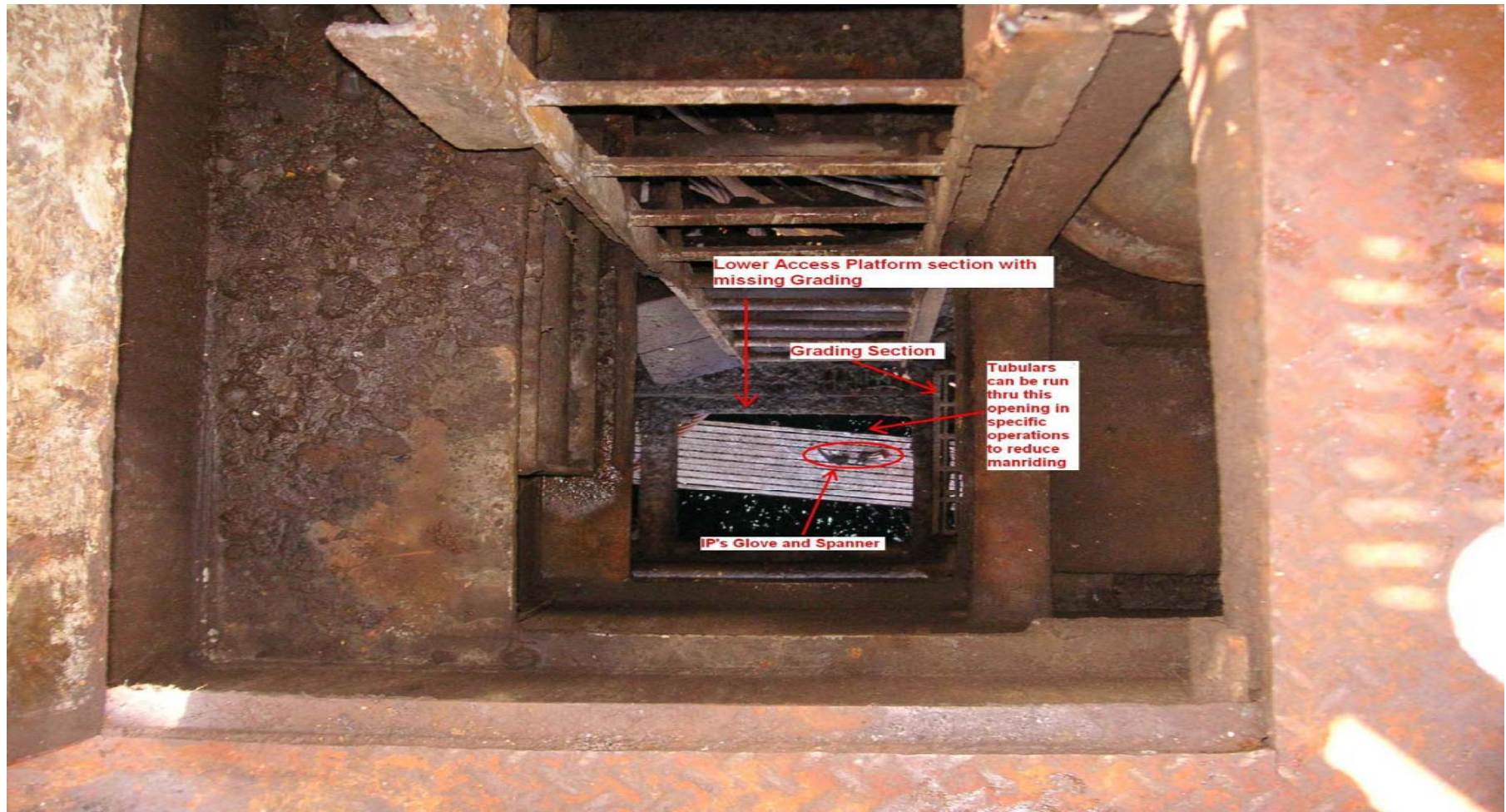
Hatch on Drill Floor Giving Access to the Diverter Housing and RTR



Side View of the Area Beneath the Drill Floor



View Looking Down Through Hatch on Drill Floor



Sequence of Events (1)

- Driller and Praveen discussed the task requirements. They did not do a verbal or written THINK Plan.
- Praveen went to get a safety harness while the other floorhands opened the hatch and obtained adjustable spanners.
- A Floorhand attached a double lanyard to the safety harness. The use of a flotation device was not discussed.
- The other Floorhand informed Praveen that the platform grating at the bottom of the ladder was missing. Praveen verbally acknowledged this warning.
- No Floorhand attempted to stop the task.

Sequence of Events (2)

- **Praveen descended the ladder from the drill floor without securing the lanyards.**
- **While descending the ladder, Praveen slipped and fell about 40 feet into the water in the moonpool.**
- **An aluminum walkway across the spider beams was directly below the opening in the grating. It is possible Praveen may have hit this and other objects.**
- **Floorhands raised the alarm and the Senior Sub-Sea Supervisor (SSS) and Toolpusher (TP) rushed to the Moonpool.**
- **SSS and TP saw him briefly at the surface before he submerged. He was not seen thereafter.**
- **Search and rescue operations commenced with the Man Overboard Alarm but were unsuccessful.**

View Looking Down Through Hatch on Drill Floor



Side View of Diverter Housing Platform Underneath the Drill Floor



Key Findings

- **The platform grating had been previously removed to use the hatch as a “mousehole” for cement stands, allowing hoses to be connected at floor level.**
- **There was no specific THINK Plan or Task Specific Think Procedure for this task.**
- **No fall protection equipment or flotation device was used by Praveen to descend the 10 foot ladder.**
- **The floorhands identified and discussed the hazard of the missing grating, but failed to apply any additional control measures.**
- **Deck and access ladder were wet with water and hydraulic oil.**
- **First five rungs of the ladder were constructed with square steel stock and the second five with round steel stock.**

Conclusions

- **Failure in Management of Change**
 - No Task Risk Assessment of new cement stand hook-up procedure recognising the need to replace the grating after the job completed.
 - Floorhands did not respond to identified hazard (missing grating)
- **Failure to use Personal Protective Equipment**
 - Lanyard on safety harness not used
 - Flotation device not worn for work over water
- **Failure to perform adequate Task Risk Assessments**
 - No verbal or written THINK Plan
 - No Task Specific THINK Procedure
 - No assessment conducted of ladder
- **Gaps in Rig Safety Culture**
 - Self-imposed pressure to perform
 - Junior crew reluctant to stop the job
 - Praveen's unacceptable level of risk tolerance

Corrective Actions Undertaken

- **Issued Accountability letters to Floorhands, Supervisors and Managers**

- **Assigned dedicated HSE Advisors**

- **Focused re-training of supervisors and crew on;**
 - **THINK Planning and START Observation Process**
 - **Risk tolerance issues**
 - **Fall Protection and Working Over Water**
 - **Hazard Identification and Task Risk Assessment**
 - **Safety Leadership Training**

End

