



DYNAMIC POSITIONING CONFERENCE
October 13-14, 2015

PANEL DISCUSSION - SENSORS

The Next Opportunity!
Preventing DP Loss Of Position Incidents
A Focus On Handling Of Position Reference Sensors

Moderator: Suman Muddusetti
Shell International Exploration and Production

**THE NEXT OPPORTUNITY-
PREVENTING DP LOSS OF POSITION INCIDENT
A FOCUS ON HANDLING OF POSITION REFERERNC E SENSORS**

**PRESENTED BY YOUR PANEL OF EXPERTS FROM
THE DP COMMUNITY**



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**MODERATED BY
SUMAN MUDDUSETTI
SHELL INTERNATIONAL EXPLORATION AND PRODUCTION INC**

YOUR PANELISTS!

DP CONTROL	POSITION REFERENCE SENSOR	INERTIAL SYSTEMS
ANDREY LOGINOV, F L BEIER	DAVID FITTS, C&C TECH	RUSSEL MORTON, C&C TECH
NICK SMITH, GE	JAN GROTHUSEN, GUIDANCE	MIKAEL LARSEN, SONARDYNE
TOR BJORN HALS, KM	ARNE RINNAN, KONSGBERG- SEATEX	KEITH VICKERY, ZUPT
SVEINUNG TOLLEFSEN, MT	LINDSAY MACDONALD, NAUTRONIX	
FRODE BLOCH, RR	JON PARKER, SONARDYNE	
MIKE FORD, WARTSILA	DAVID RUSSELL, VERIPOS	

“Why are we at a place where one errant position reference sensor, or a technology family group of sensors, can still result in a drive off?”

Are we making effective use of the quality metrics that the position reference sensors provide effectively?

- Are we making use of sophisticated sensor error models?
- Are we addressing update rates vs standard deviation appropriately?
 - The update rate still seems to dominate quality assessment in spite of a volume of work arounds installed over the years.
 - Do the “work arounds” perform adequately to allow slower updates to be effective during position reference root cause DP incidents where other sensors are lost?
- **Subset** Given the impact that gyro’s have on station keeping, are gyros being addressed as effectively as they should?

Is there an opportunity for Regulatory stakeholders (eg: Classification Societies) to be effectively engaged and be leveraged to develop new solutions which are robust and address known legacy issue?

- Become knowledgeable, keeping abreast of the issues, workarounds for known problems, technology developments and potential for new and more robust solutions
- Be able to support industry at large by facilitating effective deployment of technology and minimize lag time between evolution of technology and regulations

❖ INERTIAL NAVIGATION SYSTEM

- Closely coupled vs loosely coupled
- Should INS be treated as just another sensor? (with parity to other sensors)
- How do we refrain from succumbing to the temptation of using Inertial as band aid, instead of ensuring that other systems are being used to their full potential

- ❖ WHAT IS THE RECOMMENDED MIX OF DIVERSE POSITION REFERENCE SENSORS?
 - (No of DGNSS when used in conjunction with PRS's based on other principles)



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■ THANK YOU

