

AN INDUSTRY PROBLEM

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Shell VP Wells MENA/Russia/Caspian

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An industry problem?



11 Fatalities
5 mls bbls
\$100 bln

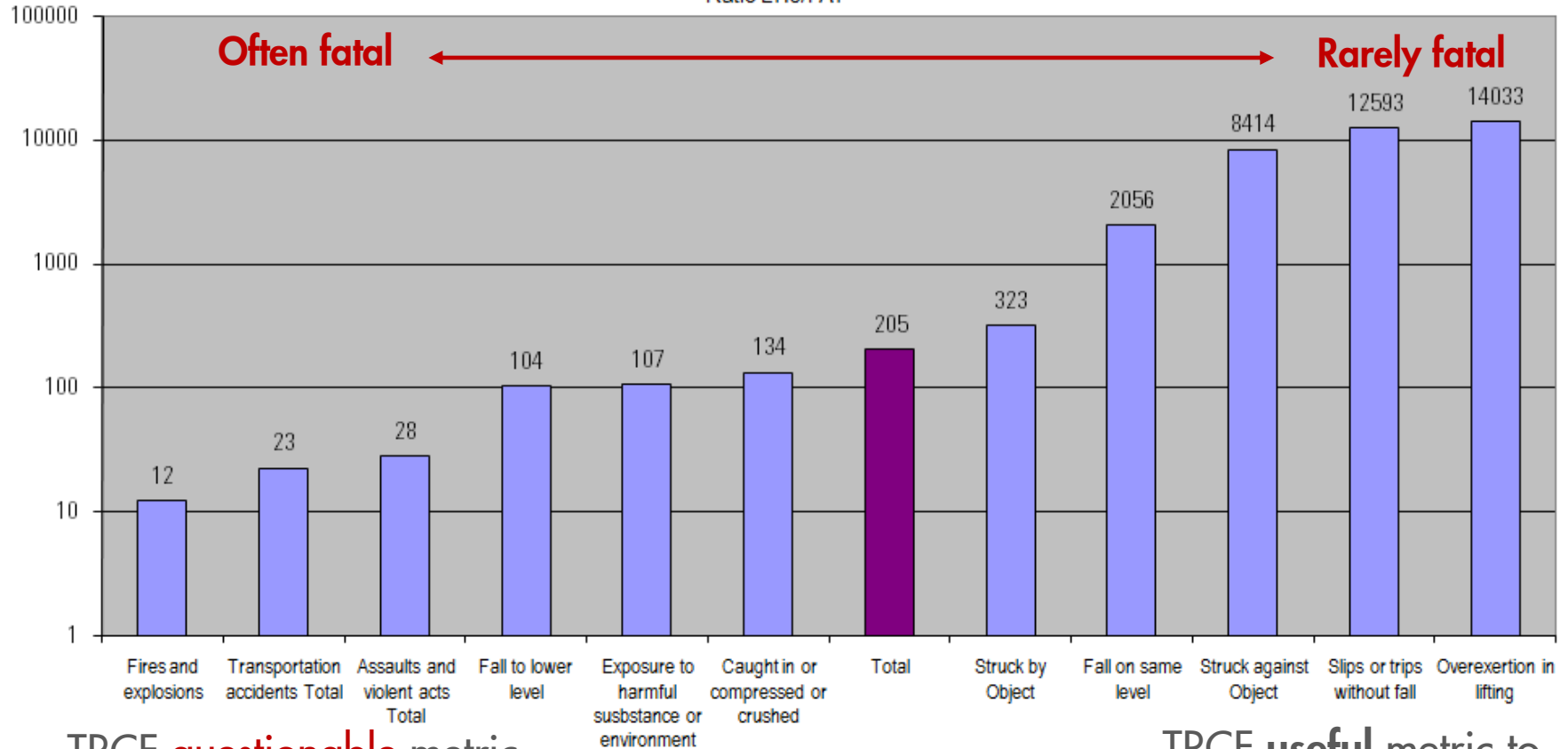


How many statements can you affirm?

- I understand the errors we cannot afford to make
- My safety cases are living, evolving, operationalised
- We have Process Safety KPIs to help monitor effectiveness of our controls & discuss them at leadership meetings
- In my organisation all process safety incidents & near misses are investigated & actions are tracked & completed
- Derogations to my company's standards are visible to me
- I understand our standards
- We have an effective MoC process

Focus on the risk

(2007 data as published in March 2009 by US Bureau of Labour Statistics)
Ratio LTIs/FAT



TRCF questionable metric to monitor performance

Event or Exposure

(Based on US BLS Occupational Injury and Illness Classification Manual)

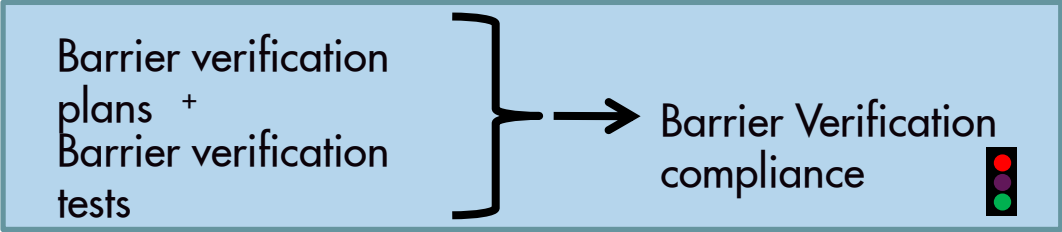
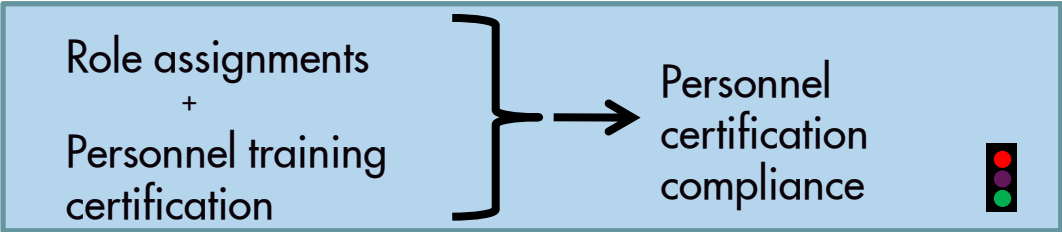
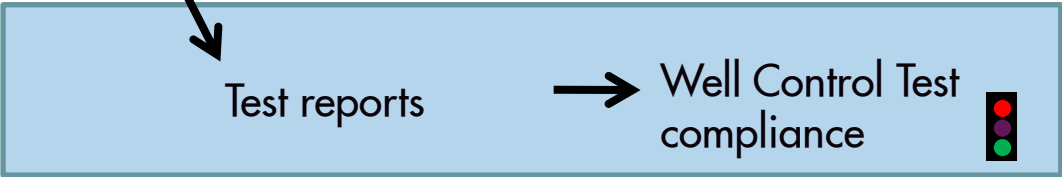
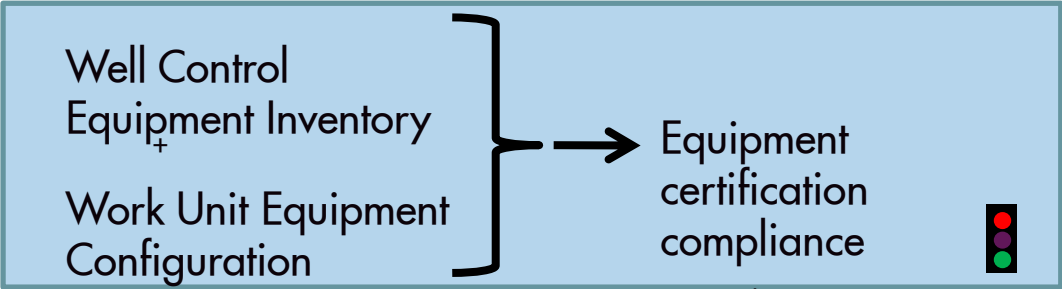
TRCF **useful** metric to monitor performance

Senior Management Focus

Middle Management Focus
Resources / Competency /
Training / PTW / Intervention

Empower Work floor:
JSA, Unsafe Act Reporting,
Tool Box Meetings etc.

Compliance in eWCAT

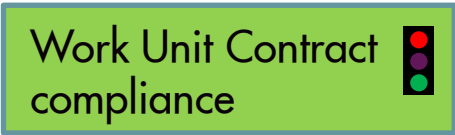


Well Control Assurance Tool

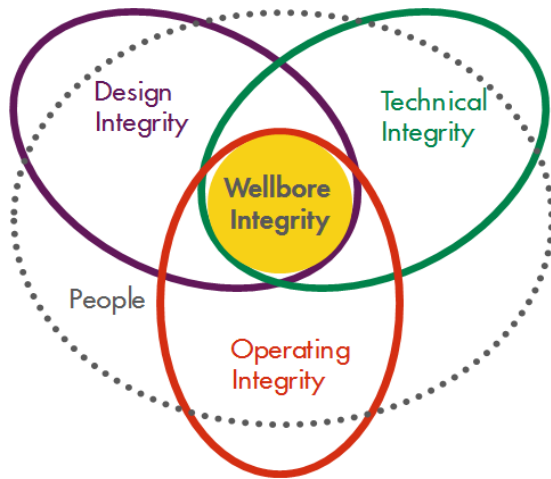
Work Unit Contracts (15)

Compliance Code	Workunit Name	Type	Start date	End date	State	Senior Well Engineer	Equipment Personnel Tests	Goes Red On
EDC	EDC Test rig	Land Rig	28/02/2011	28/02/2012	Approved			06/02/2011
rig	rig test ah	Land Rig	28/02/2011	30/03/2012	Approved	Hopkin, Andy C SE...		07/04/2011
Deutag	Deutag T392/3	Land Rig	17/03/2011	17/03/2013	Approved	Raming, Mark MWC...		01/04/2010
Deutag	Deutag T392/5	Land Rig	17/03/2011	17/03/2013	Approved	Raming, Mark MWC...		01/04/2010
Noble	Noble Danny Adoms	Semi-Sub...	15/03/2011	01/03/2012	Approved			06/04/2010

Task	Type	State	Due Date	Deviation #	Dev. Exp. Date	Isol.
Well Control Test	BOP Pressure Test	Needed	07/06/2011			
Well Control Test	BOP Function Test	Needed	13/06/2011			
Personnel Schedule	Personnel Schedule	Needed	14/06/2011			
Well Control Test	Accumulator Test	Needed	14/06/2011			
Well Control Test	Blind Shear Ram ...	Needed	14/06/2011			



Process safety focus Shell Wells organisation 2011



- New process safety metrics & incident investigation requirements
- Update of HSSE control framework (who, what, when, standards)
- Wells improvement plan covering competence of people, contingency plans, new technology
- Leadership focus

