



International
Association
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Producers

RNNP

Well Control Aspects IOGP

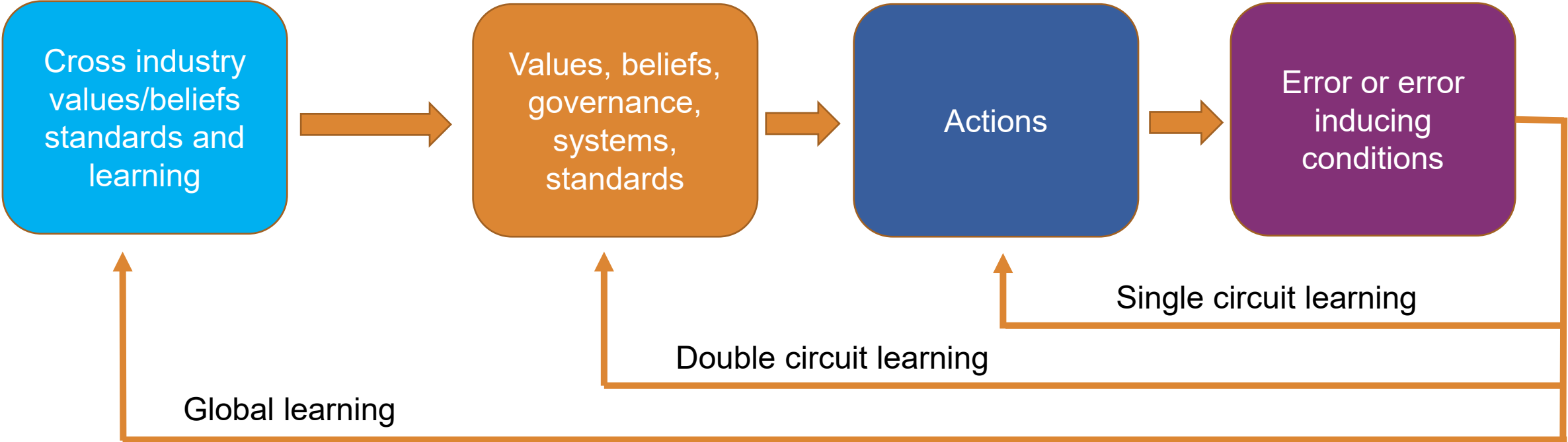
30th March 2023

Olav M Skår

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Prev IOGP Safety Director





#Adapted from "Learning from incidents, PSA, provided by Linn Iren Vestly Bergh

Shared goals

Risk assessment matrix									
Severity	Consequences				Increasing likelihood				
	People	Assets	Community	Environment	A	B	C	D	E
					Never heard of in the industry	Heard of in the industry	Has happened in our organisation or more than once per year in the industry	Has happened at the location or more than once per year in our organisation	Has happened more than once per year at the location
0	No injury or health effect	No damage	No effect	No effect	Continuous improvements				
1	Slight injury or health effect	Slight damage	Slight effect	Slight effect	Control to ALARP				
2	Minor injury or health impact	Minor damage	Minor effect	Minor effect					
3	Major injury or health effect	Moderate damage	Moderate effect	Moderate effect	Likelihood to be endorsed by management				
4	PTD* or up to three fatalities	Major damage	Major effect	Major effect					
5	More than three fatalities	Massive damage	Massive effect	Massive effect	Likelihood to be endorsed by management				

* Permanent total disability

Zero Tier 1 offshore source control incidents in 2021

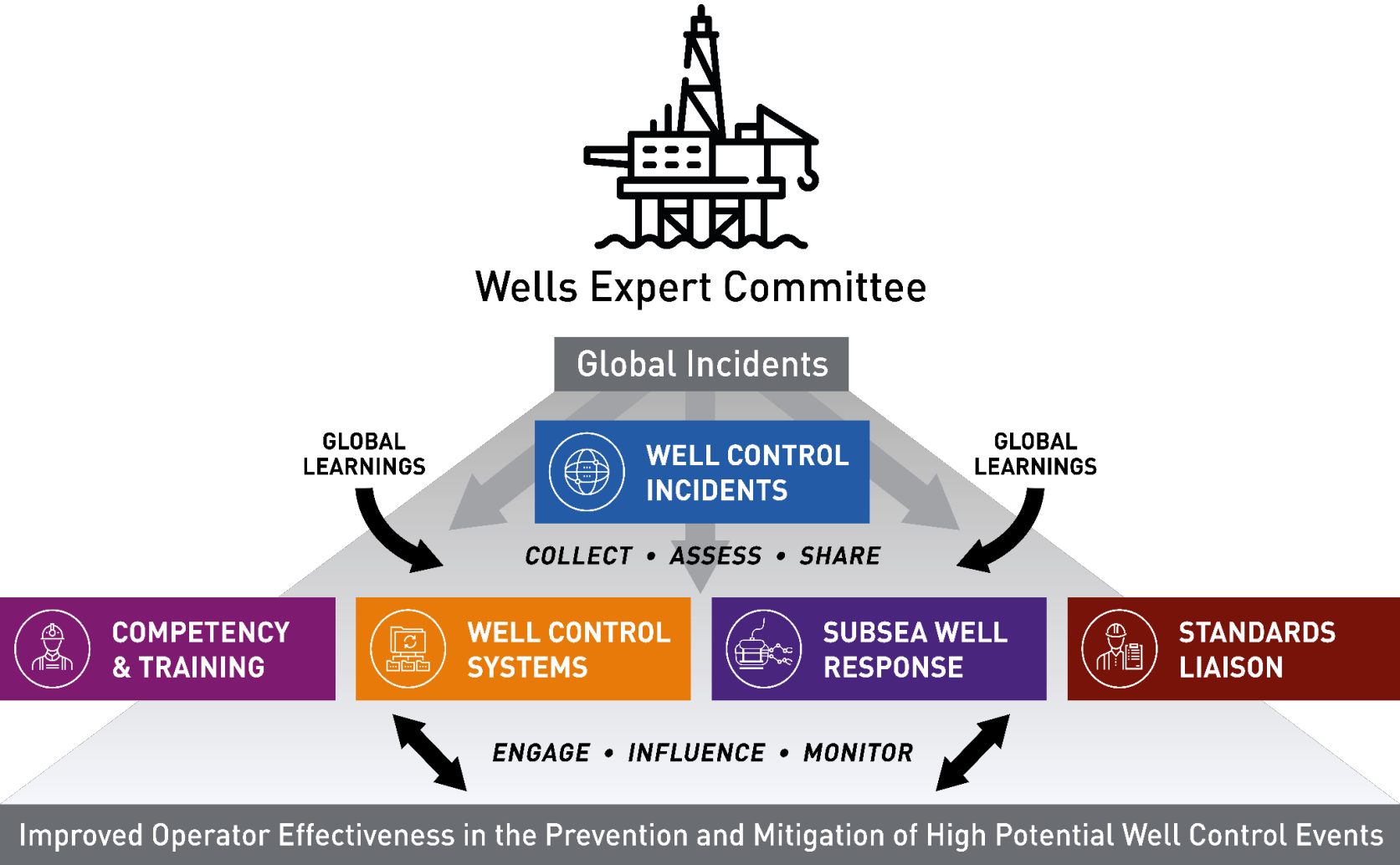
Zero multiple fatality Process Safety Events in 2021

Zero multiple fatality helicopter events since 2016

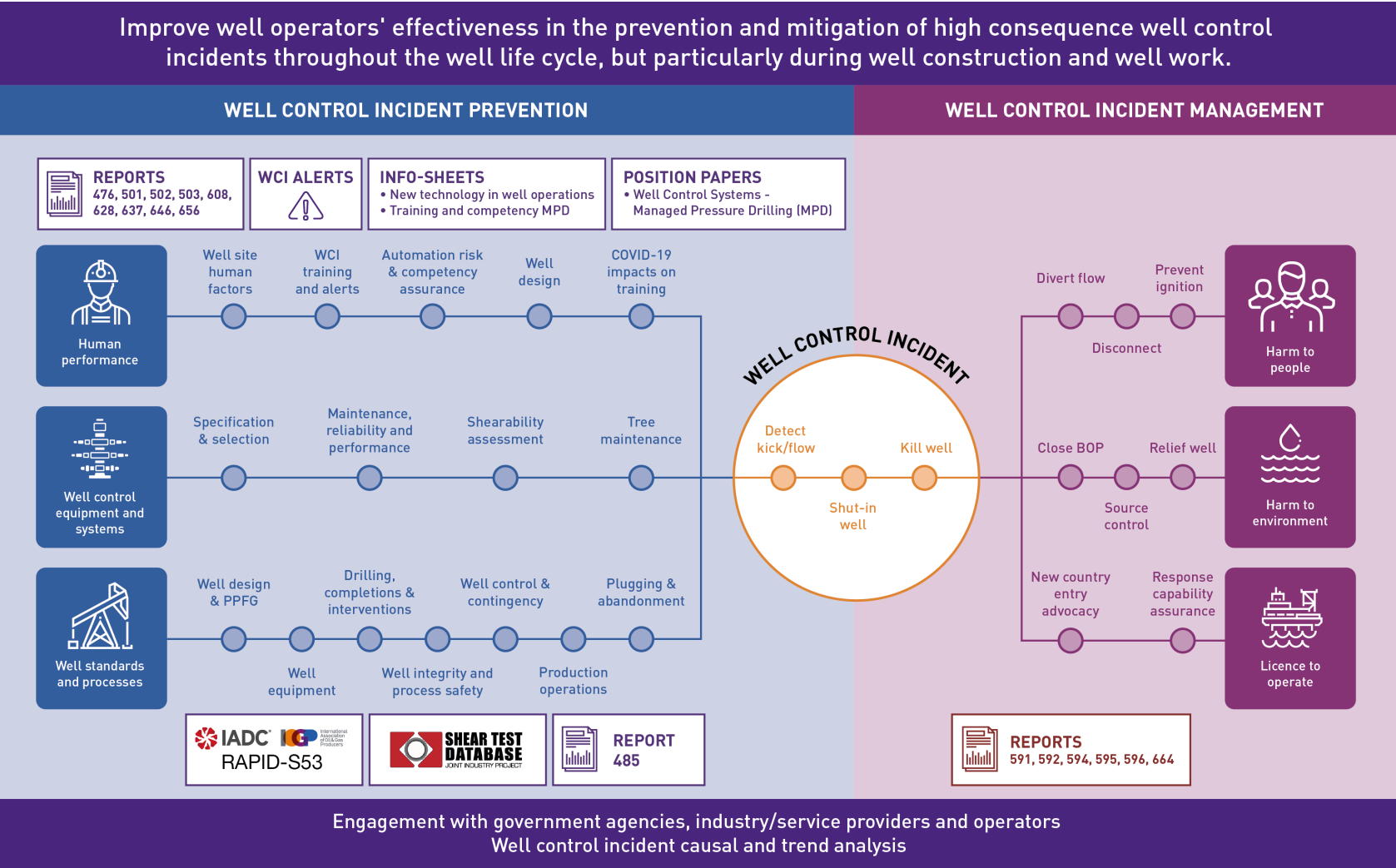
Current status

Note: Data includes IOGP reporting members

IOGP's Wells Expert Committee



WEC strategy on a page



Some recent publications

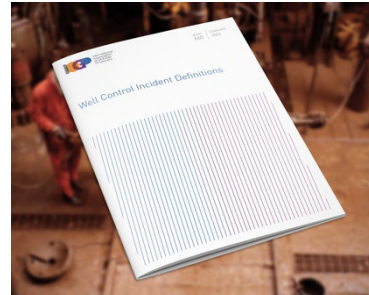
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Hybrid learning solutions for well control courses Executive summary
IOGP report 646ex



Assessment of eye tracking technology in well control operations
IOGP report 656



Well Control incident definitions
IOGP report 660



Review of subsea well response capability
IOGP report 664



Well Control Systems – Managed Pressure Drilling Recommendations
IOGP position statement



Hybrid learning solutions for well control courses
IOGP report 646



Recommended practice for PPFG analysis for well design, Construction, Intervention, Abandonment
IOGP report 608



Environment, spill response and safe operations workshop summary
2022bws



Key factors for training and competency in MPD operations
IOGP info sheet



Guidance for computational fluid dynamics in subsea well response applications
IOGP report 596

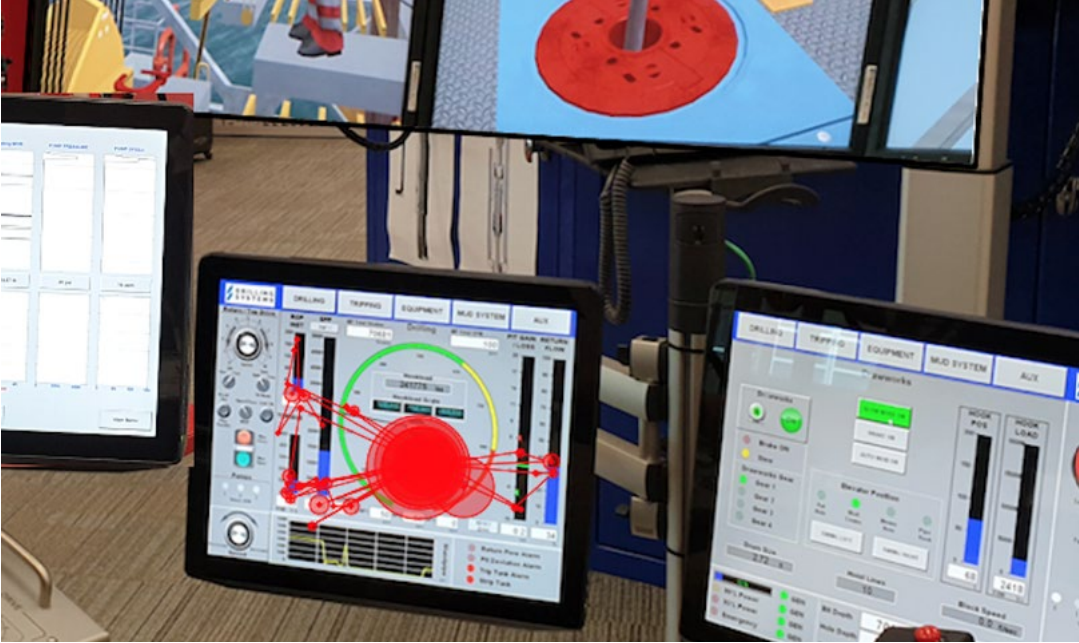
IRF Well Control, plan 2023-25

IRF lead NOPSEMA Australia

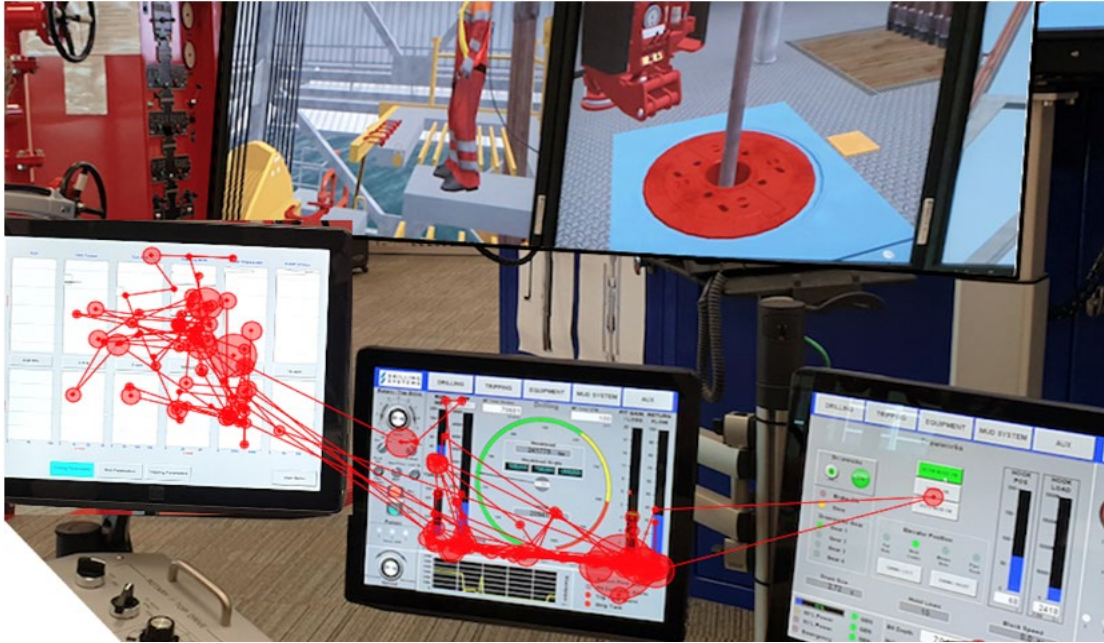
- Objective:** Reduce likelihood of well control events taking place
- How:** Move further to the left of the Well Control bow tie.
- First deliverable:** Released IOGP ppfg guidelines – by Q1-22. Next deliverables as per below
- Implementation:** 2023-25
- Next deliverables:** To be defined by end 2022.
- Shared efforts:** Joint and aligned communications and participation at conferences.
- Cadence:** Bi-monthly meetings and half yearly updates to IRF board.

Year	Activity	Milestones	Reference	Status
2023	1) Develop ToR for next steps on ppfg document. Likely an info sheet helping translation for Wells staff 2) Review report 476 (well competency) to include new insights from ppfg, online learning methods, Well Intervention practical assessments and general risk understanding. 3) IRF member feedback from verification activities re use of PPFG document 4) Define any next steps/review opportunity statement	1) Info sheet published 2) Report 476 published. 3) Feedback from spot checks 4) Decision on next steps	1) IOGP WEC 2023 Business plan 2) IOGP WEC 2023 Business plan	
2024	1) IADC and IWCF implement changes to 476 in well control syllabi. 2) Commence any next steps as defined in 2023 3) IRF member generic feedback from verification activities re PPFG document.	1) Updated Wellsharp and IWCF	1) IADC/IWCF programs	
2025	1) tbd			

Eye scanning research, first step



Cyber chair, auto driller disengaged



Cyber chair auto driller engaged

General direction across safety directorate



and many, many more,,,,,,,,

The complex block contains several safety-related elements: a grid of 12 circular icons representing various safety concepts; a set of 10 square icons with labels such as 'Maintain safe isolation', 'Mark the line', 'Apply procedures', 'Sustain barriers', 'Control ignition sources', 'Recognize change', 'Respect hazards', 'Stay within operating limits', 'Stop if the unexpected occurs', and 'Watch for weak signals'; three photographs of safety documents, including one titled 'Level 2 Investigation Report' and another showing two workers in orange safety gear reviewing a document.

- Implementation
- Human Performance Principles
- Leading indicators
- Work with others

2022

- Regulatory enhancements
- Standards
- Global Harmonization



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