

# The Need for a Combined Safety Case

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# Health Safety Environment - HSE Management System

# HSE Management System



- Ensure that the activities of an organisation are
  - planned
  - carried out
  - controlled and
  - directed whereby the business objectives are met.
- Understandable at the appropriate levels in the organization
- Documented so that it can effectively be audited and verified
- Manages risks to assure the protection of **P**eople, protection of the **E**nvironment, **A**ssets and **R**eputation (PEAR)

# HSSE & SP Control Framework



- Controls risks associated with
  - Health,
  - Safety,
  - Security,
  - Environment and
  - Social Performance

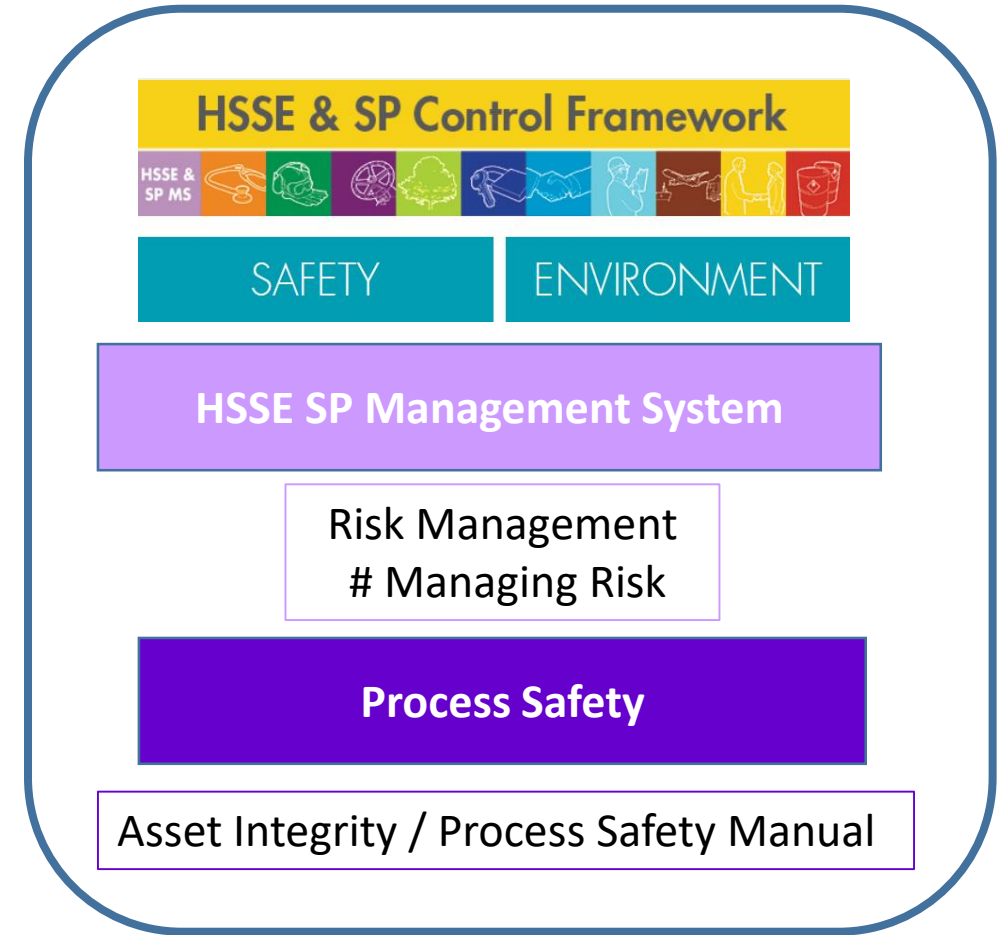
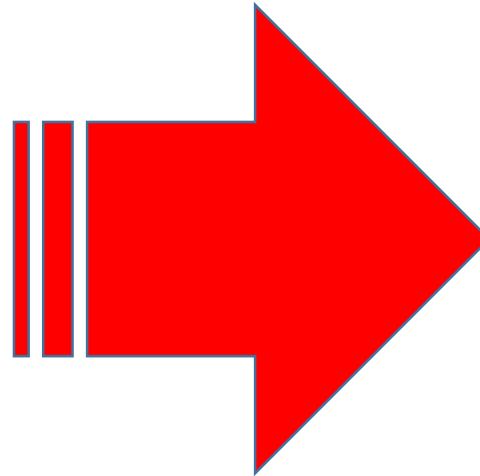


- Objectives of the HSSE & SP Control Framework
  - To prevent harm to people
  - To protect the environment and
  - To act as a good neighbour, in line with the Shell Group Policy and Commitment to Health, Safety, Security, Environment and Social Performance

- HSE Case is a facility or operation-specific and demonstrates the HSE Management System in action
- Documents that risks have been, or will be, reduced to as low as reasonably practicable (ALARP).
- Shows how an organisation's HSE MS objectives are reflected in practice and
- Shows how local risk management objectives are being achieved

**HSE  
CASE  
STANDARD**

# Alignment with Control Framework



# Combined Operations Safety Case (COSC)

# Combined Operations

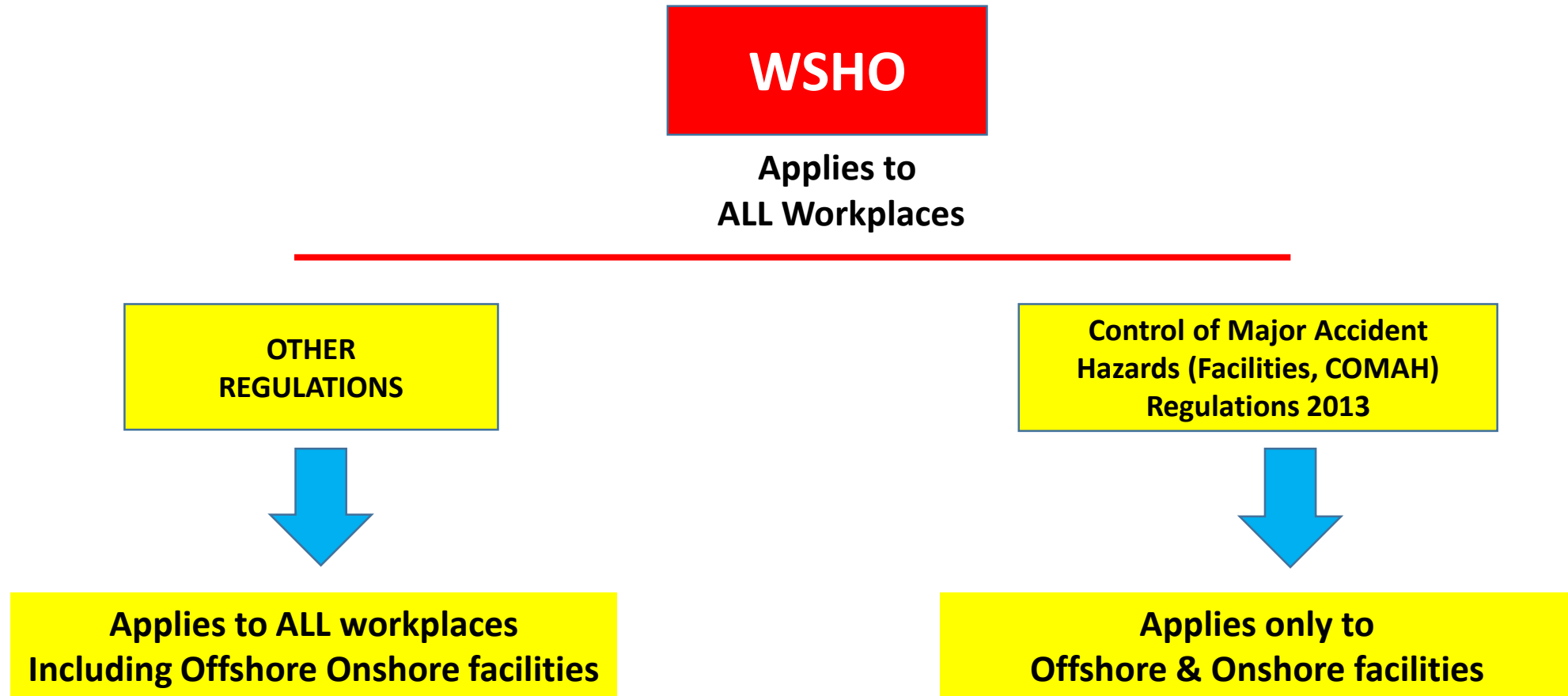


A Combined Operation is defined by the Brunei Workplace Safety and Health (Facilities) COMAH (Amendment) Regulations 2017 and the primary objectives of a Safety Case are:

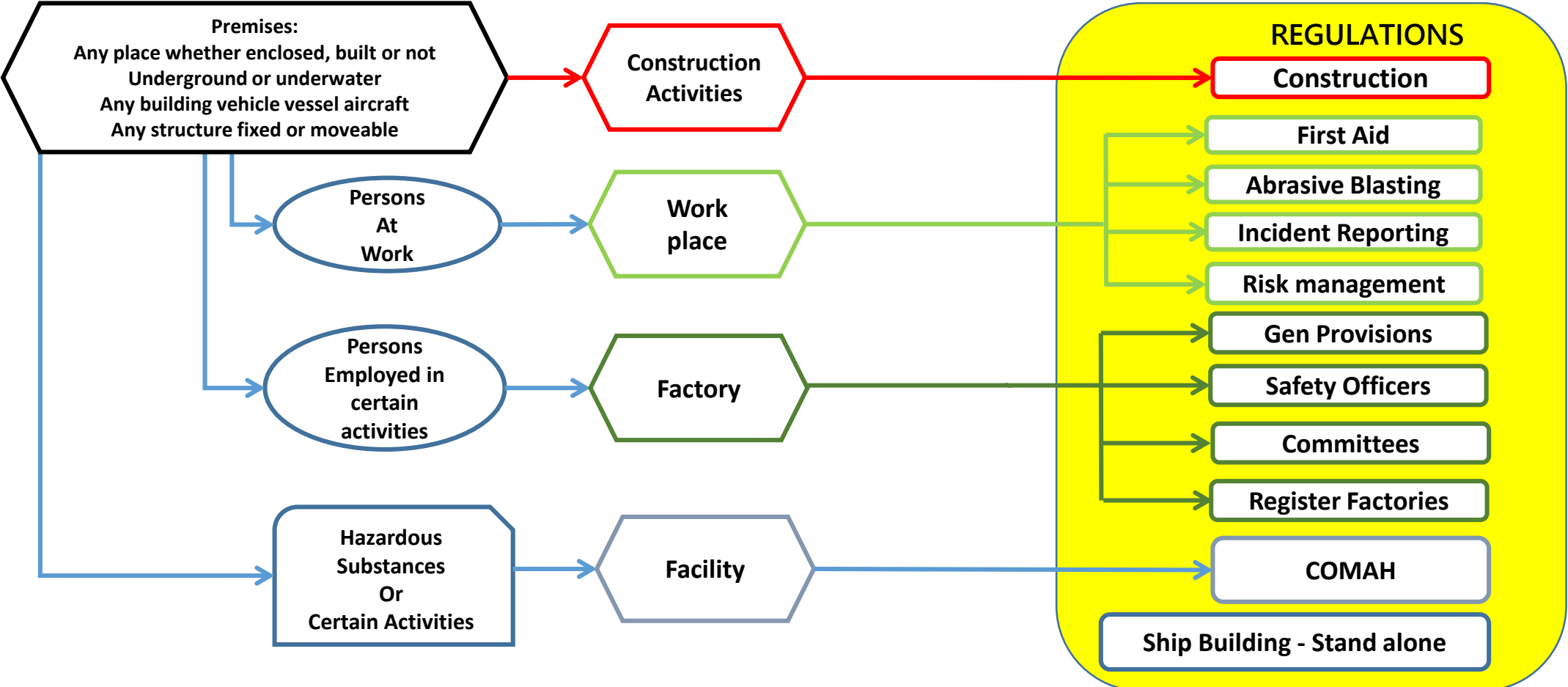
- To demonstrate all Major Accident Hazards (MAH's) are effectively managed throughout the Combined Operations
- To provide the information required under COMAH as specified by the Safety, Health and Environment National Authority



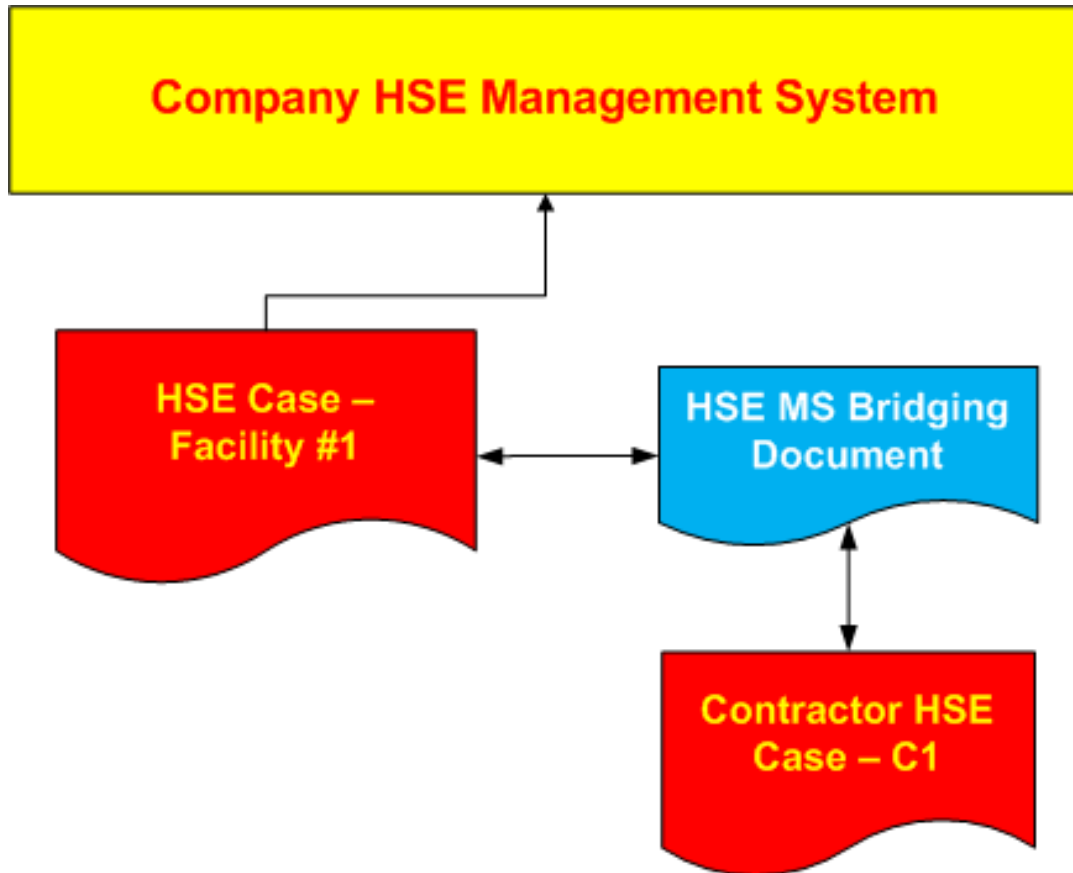
# Workplace Safety and Health Order -1



# Workplace Safety and Health Order - 2



# COSC Requirements



- COSC would need to ensure that these are adequately addressed:
  - Effective management of MAH's
  - Responsibility of Duty Holders
  - Work Programme
  - Site Surveys
  - Pipeline Integrity Assessment
  - Hazard Assessment
  - Mitigations and Controls
  - Emergency Response
  - Safety and Health Management Systems

# About the Speakers



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Head of HSSE Assurance and Standards

Terry is currently the Head the HSSE Assurance and Standards with Brunei Shell Petroleum Company Sendirian Berhad. He is a licensed Functional Safety Engineer with TUV Rhineland, and a Chartered Engineer with the Institution of Engineering & Technology (formerly IEE), UK. Terry is a Certified Shell SIFPro (Safety Instrumented Functions) facilitator and is passionate about process safety in the oil and gas industry. He has been in the industry for over 33 years and a strong focus on people-competence where he provides technical and leadership. He has explored and implemented various opportunities in Artificial Intelligence in the Oil and Gas Industry.



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Jam Ali is the HSE Regulatory Compliance Lead with Brunei Shell Petroleum Company. He holds a Bachelor Engineering Degree in Electronic & Computer Systems. He spent 8 years in Business Planning and Economics as a Corporate Operation Planning Engineer focusing on ST & MT-IAP Short and Medium Term Integrated Planning and Gas Allocation & Nomination for Brunei Liquefied Natural Gas. He was a Lead Project Engineer for Inland Gas Major Project and also he was 2 years in role as the Lead Company Site Representative for the Design Engineering Consultant.

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