

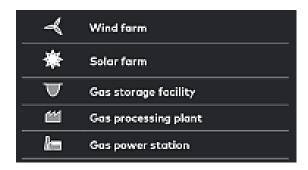


AN OPERATOR WITH BIG PICTURE THINKING ON PROCESS SAFETY

APGA PresentationOctober 2021



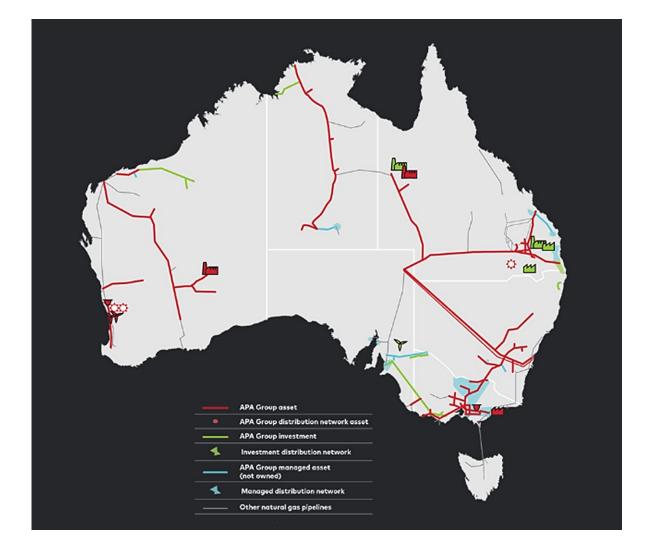
APA Group Operations - 2017



APA Operation
 At this time - natural gas.
 Beautiful - Power Emerging
 The second operation
 Approach was not widely known within APA.

APA Operation

 Approach was not widely known within APA.





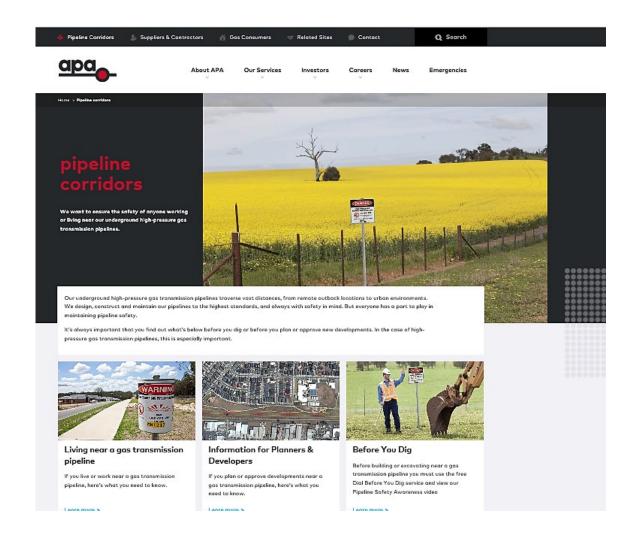
The Operating Environment in 2017

Process and systems were in place to manage process safety

- Discrete and participation required specific working knowledge.
- Looks to AS 2885 to guide in safe design, construction, operation and management.

System and Process Examples

- Permit to work
- Job hazard analyses
- Lock out tag out
- Management of Change
- Incident investigation and management
- ESD testing
- Equipment inspections





Thinking Process Safety

"The safe operation of APA's assets such that there is no major accident event (fatality or multiple fatalities) as a result of harmful substance or energy release."



Why establish process safety?

- Structure for management of asset safety risks involving harmful substance or energy
- Aimed at high consequence low likelihood events
- Common approach across industry
- Organisation wide involvement









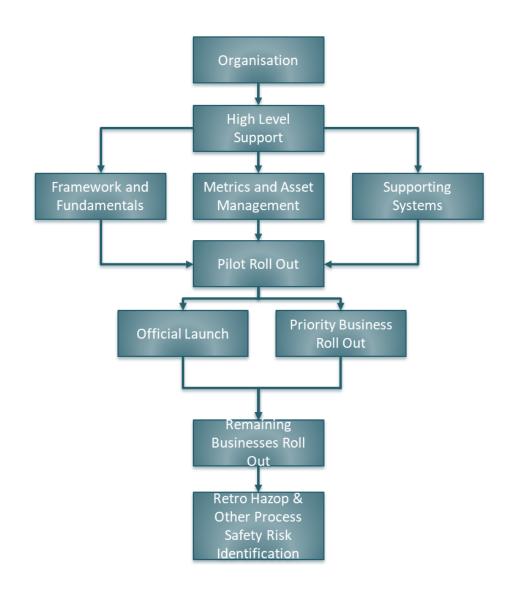
The Process Safety Journey

Activities to build support from leadership as well as actions to build awareness are key



Starting the Journey?

- Organisation dedicated roles
- •Top-down leadership awareness and support from the top
- Metrics early awareness of incidents and improvement opportunities
- •Systems build or improve key ones
- •HSE Policy Commitment gets process safety on same level as rest of HSE
- •Engagement involve leaders at all levels
- Business wide awareness —early opportunities





APA's Framework

Detailed framework built off the Energy Institute model

Simple fundamentals to enable communication

Back up with clear expectations and processes to support

Details of Energy Institute Framework built into HSE Framework as a "Fatal Risk Protocol" under fundamentals headings.





Supporting with Processes & Systems

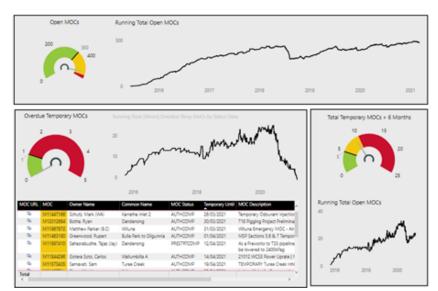
The how behind the fundamentals

Make them "good enough" before roll out

Aim to "make it easy to do the right thing" through

- Training
- Easy access
- Removing noise
- Making it visual
- Ongoing governance & support
- Ongoing improvement









Process Safety Fundamentals Training

Face to Face Training

Experienced trainers

Stories from personal experience

Involving asset operations and team leaders

Build into organisational on-boarding safety training (APA on-line training nearing completion)

Have your leaders in the room





Keeping the conversation going

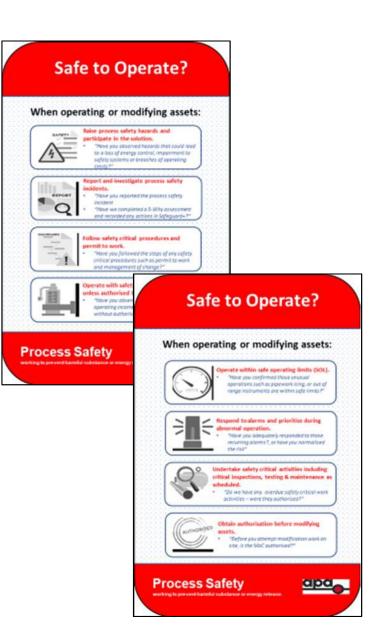
Build into business processes e.g. asset management reporting as part of governance

Use incident investigation & lessons learnt as a way of building understanding how to do the right thing

Use feedback to improve systems and processes

Use process improvements as a way to continue a wider conversation

Develop support for leaders to have the process safety conversation





APA Group Operations Today







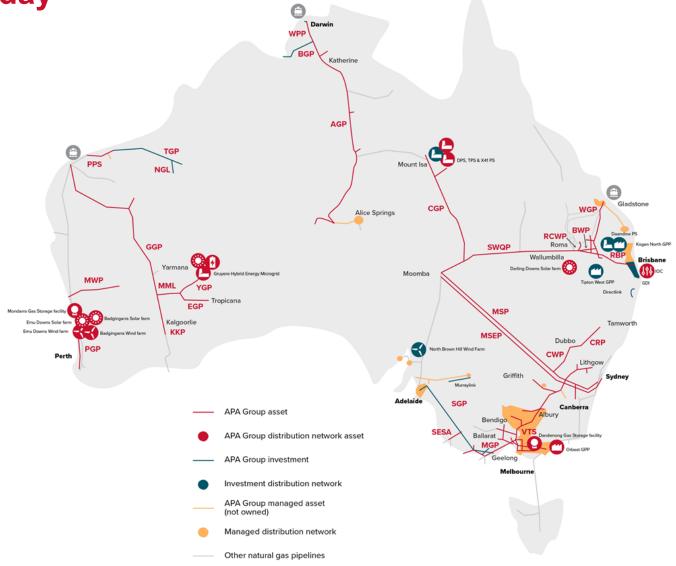




Integrated Operations Centre

LNG plant

Batteries





The Process Safety Big Picture Ahead

Make it part of onboarding e.g. Fatal Risk Protocols training

Apply process safety to APA power assets & future operations

Support leaders in process safety discussions

Improve & build processes to enable proactive risk identification e.g. retrospective HAZOP

Revised Process Safety Definition

• The safe operation of APA's assets such that there is no major accident event (fatality or multiple fatalities) as a result of loss of control of harmful substance or energy.



For further information

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