

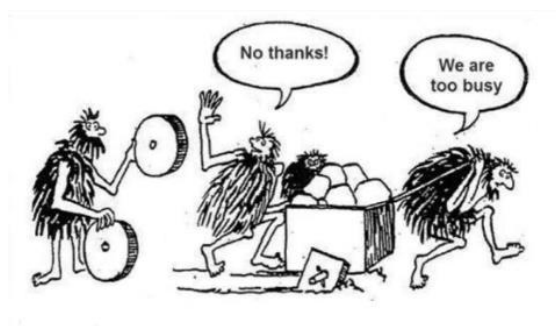


Operational Excellence

What is Operational Excellence?

- High Plant Availability. Avoid plant failure due to poor maintenance, low integrity, minimal people care and running the unit outside design capability.
- Good Safety Records. Good HSE policy, process safety guaranteed and good HSE awareness.
- Good Business Economics. Optimal cost control, plant capacity achieved and low product quality give away.
- Resilient Organisation. Good mix of people (operators, engineers and management).
- People Capability and Effectiveness. Have the right amount of FTE and disciplines.
- Plant Design. Do you have the correct plant design to achieve your goals?

Many sites are facing the below illustration.



- People Capability and challenge.
 - Do you have enough people and are they inspired?
 - Role and responsibilities known?
 - Incident investigations & lesson learned conducted?
- Sign and signals.
 - Process control and DCS
 - Lab data.
 - Knowledge management.
 - Refreshment trainings.
- Systems.
 - Document control.
 - Integrity team:-
 - ✓ Inspections.
 - ✓ Project.
 - ✓ Manuals
 - ✓ MOC procedure.
- Teams.
 - Mechanical.

- Automation.
- HSE
- Project Implementation.
- Lab
- Planning & Scheduling.

- Many sites are facing low plant availability due to:-
 - Poor plant design and are not able to invest due to investment restrictions.
 - Adjust your expectations.
 - Feed quality has changed.
 - Plant capability is a problems.
 - Missing the right people and tools.
 - No lessons learned and corrective actions.
- Best way to move forward:-
 - Understand your people and plant capability.
 - Develop vision where to be within 1, 5 and 10 years.
 - Investigate options and possibilities to become resilient.

NAPTA can provide assistance during design review, installation review, operation and troubleshooting of these installations. Also NAPTA can provide assistance on the path forward to understand operation status and what is achievable. NAPTA experts can conduct a site visit for better understanding of site-specific issues; and training of local operational and technical staff could be considered.

For more information, please contact with NAPTA's Operational Excellence SME Mr Shamie Algoe via herein below contact details.

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