

# Turnaround (TAR) improvement



A TAR to carry out inspection or maintenance work on your equipment represents a significant cost to the business and a high risk to safety, integrity and reliability.

20% of all production losses in the UKCS were identified as being due to turnarounds. During the last 10 years, on average UKCS platforms have moved from biennial TARs to annual TARs, and on average these TARs are taking 50% longer to deliver.

Well managed events will enhance the safety performance, integrity, reliability and operations. Poorly managed events have the opposite effects and can also add significant costs.

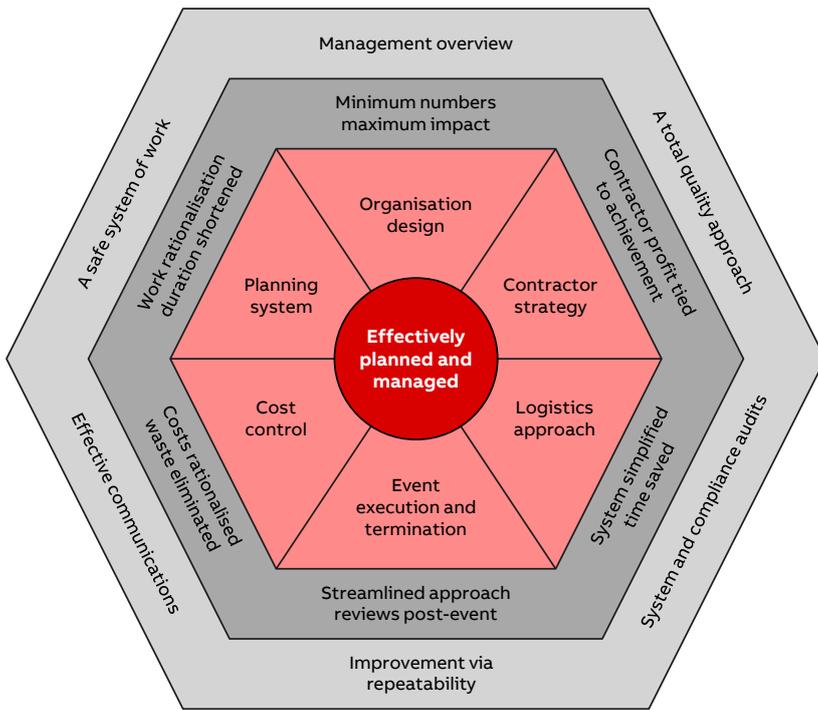
Organisations will have an established methodology for TAR management and should capture this as a set of procedures, describing how a TAR should be scoped, planned and delivered. Have these procedures been audited and challenged recently to ensure that they meet recognised good practices? Has the learning from previous events been incorporated? Are they delivering the 'right work' at the 'right cost', with on time start-up and improved reliability between events?

## What we offer

ABB provides a set of services before, during and after turnarounds to help improve the chances of success for current and future events. Our approach helps ensure that the balance between the event scope, cost, duration and frequency is optimised. We also help ensure the event is delivered to the planned time, cost and quality.

## Services before the events:

- Evaluation and extension of the TAR interval through examination of maintenance and inspection requirements, as well as identification of potential constraints
- Optimising the work scope - risk based maintenance and inspection services can reduce the work scope for the event. Asset life plans highlight tasks that extend equipment life and reliability studies help improve plant performance
- Event preparation and planning - our TAR methodology and tools help you to plan, prepare and optimise the event
- Schedule challenge - a proven approach to shortening event duration
- Readiness risk review - part of a suite of assessments identifying the appropriateness of event preparations and methods, then specifying actions to improve the performance of the event
- Training and coaching - either in technical issues or TAR methodology



— Above: ABB model of TAR excellence.

#### Services during the event:

- Technical teams - experienced and practical engineers helping making the right decisions quickly
- Execution methodologies - our TAR approach improves your TAR practices, improves control and reduces the risk of overrun and overspend

#### Services after the events:

- Review and improvement planning - identifies areas for improving your approach to TARs and helps develop and deliver improvement plans

Key critical elements that are addressed across all three phases:

- Strategy and management control
- Organisation, resources and competency
- Preparation, planning and scheduling
- Contractors and contracts
- Projects integration
- Costs
- Logistics
- Execution
- HSE and safe systems of work
- Communications strategy
- Total quality approach
- IT systems and software
- Termination and review
- Improvement programme
- Audit programme
- Risk assessment

#### Benefits

We can help you to achieve:

- Events that align with your business, manufacturing and maintenance strategies
- Lower cost and shorter duration events
- Effective event preparation
- Improved forecasting of emergent work
- An improved methodology building on best industry practices and learning from previous events
- Fewer start up issues with improved integrity and reliability

#### Why ABB?

Our consultants have a variety of process industry backgrounds and make pragmatic technical judgements based on their operational experience and best practice. This approach ensures cost effective, practical-to-implement solutions are suggested. ABB have an excellent track record of improving TAR performance for process industry operators, plus a full range of technical specialists and consultants that can support maintenance and design issues with all types of equipment.

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