

Reference No:	Nuclear Commissioning Excellence Forum	Issue No: 06
	TOR	Issue Date: 04/01/2019

## 1 Introduction

The Nuclear Commissioning Excellence Forum (NCEF) is a meeting place where Commissioning departments from the major UK nuclear companies can address issues and share knowledge.

## 2 Purpose

As with many technical areas the UK is facing a lack of suitably qualified and experienced commissioning engineers & managers. Nuclear commissioning is also subject to the common problems of time and cost, as well as the more distinct challenges concerning handover/turnover, configuration management, the alignment of culture and expectations between client and contractor, and the UK context.

The intention of the NCEF is to address these problems as well as improve the current commissioning capabilities of the member companies. This can be achieved through improving the expertise of their current personnel, sharing lessons learned and increasing the number of engineers moving into commissioning roles.

## 3 Objectives

The core objective of the group is to find best practice within the field of nuclear commissioning, and ways to roll-out best practice through internal and external education. The group aims to obtain a generic answer to the challenges in the form of a toolbox and a Commissioning Excellence Model. The advantage of meeting as a forum is the collective experience and expertise of individuals in their commissioning fields meaning that the end value exceeds the input of individuals.

The NCEF will look to garner support from a professional or industry body such as the *World Association of Nuclear Operators* (WANO) or the Nuclear Institute (NI) in the form of sponsorship to promote the work and outcomes of the forum, obtain a wider reach, peer review and help to create an enduring legacy. The NCEF aims to get buy-in from the ONR which will serve to provide legitimacy in its goals. It will also investigate an alliance with the Sector Skills Councils/ National Skills Academy, Universities and NSSG.

## 4 Meeting Frequency and Format

Meetings will occur on a 1.5-month cycle, with a face to face meeting taking place on a quarterly basis and member companies rotating as host. In the initial stages the hosting company will begin the meeting with an overview of their Commissioning team organisation, strategy, vision and objectives. The meeting will focus on topics pre-agreed by forum members with additional invitees as necessary according to topic. A telephone conference meeting to discuss progress will take place in-between the face-to-face meetings.

An agenda will be circulated prior to meetings with topics for discussion agreed beforehand. Minutes of meeting consisting of key decisions made and actions will be circulated within 1 week of the meeting.

NCEF documentation will be made available to all members via a shared storage solution such as SharePoint hosted by a member company (to be investigated and launched).



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## 5 Group Structure & Membership

The core NCEF membership will be limited to and consist of the license owners AWE, EDF, Urenco, Sellafield, Magnox, Rolls Royce, BAE Systems Submarines, and Fennovoima (and NNL also expressing an interest). Simon Block of EDF will act as chair in the early stages and an annual chair will be discussed and agreed.

A subgroup of the forum will run by invitation and may consist of supply chain companies, designers, ONR and other regulators, and National Grid.

Member Companies	Representative
EDF	Andy Waring - Commissioning Programme Director Simon Block - Commissioning Manager – PMO (Chair) Marjorie Smith – Project Administrator – Commissioning Programme Sam Billington - Commissioning Manager - Alliance
AWE	David Brophy - Head of Commissioning & Handover Adam Daszkiewicz – Commissioning Engineer
Urenco	Paul Gavin - Plant Support & Commissioning Engineer Neil Rogers - Commissioning Manager
Sellafield	Tony McNicol - Commissioning Capability Lead Anthony Macey - Commissioning Manager (Capability)
Magnox	Charlie Sanders - Chief Engineer for Scotland and South East Region Andrew Osborne - Commissioning Manager
Rolls Royce Plc	Liam O'Neill - Commissioning Manager Mark Gargaro - Commissioning Team Leader
BAE Systems Submarines	Aaron Iddon - Head of T&C
Fennovoima	Matthew Geraghty – Commissioning Manager Annika Haapanen – Project Engineer
NNL	TBC

## 6 Inputs

There are a number of common topics and areas that are relevant to all nuclear commissioning departments, and others which are organisation specific. The forum will agree to focus on topics that can provide benefit to all members before beginning to focus on company specific issues. The proposed list of focus areas/topics is below:



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- Commissioning team organisation – benefits and drawbacks of difference models
- Commissioning strategy
- Assessing Commissioning competence
- Benchmarking opportunities
- Building a “Commissioning Excellence Model”
- Software & Technology - Info management, BIM, BMS etc.
- Procedures – Use of templates, governance.
- Commissioning Test Management Arrangements
- Commissioning Surveillance
- Stages of Commissioning – Interfacing with construction and the end user.
- The completions and handover process from construction to operations
  - GSL Government Soft Landings
  - Smart Instruments
- Contracts
- Safety case – commissioning requirements
- Total quality approach
- Supply Chain (Quality Standards, Training and Monitoring, Test template arrangements and procedures, common terminology)
- The commissioning engineer pool (training requirements, competencies & SQEP)
- LTQRs
- FAT - graded approach
- Benchmarking (nuclear, process and elsewhere)

Members should consider that if the forum expands and new companies join the list should also be relevant to them.

## 7 Outputs

Initially:

- List of ‘focus areas’ which will provide direction and guidance for the forums efforts.
- NCEF Charter

Then:

- Skills register detailing via UK Spec the diverse & tangible skills commissioning technicians, engineers and managers hold in nuclear and conventional disciplines. This should also highlight gaps in knowledge or training that the members can work to address.
- Collaboration between commissioning departments to share knowledge and expertise. This could be in the form of lessons learned, secondments, good practice reports, benchmarking, safety moments or training etc.



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- Collaboration on UK nuclear commissioning issues, standards and regulations.
- Nuclear Commissioning Excellence Manual
- Positive working relationship between the member companies with the understanding that there will be no 'poaching' of personnel.

