



MANAGING RISK

DNV

Guidelines for the Design and Operation of NUIs



for the Energy Institute

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HSE, Rose Court, 18th June 2009

- Det Norske Veritas (DNV) – Leading independent provider of services for managing risks.
- Global presence 300 offices in 100 countries with 8000 employees.
- Objective: To safeguard life property and the environment.
- DNV Energy: Safeguarding and improving business performance assisting energy companies along the entire value chain – concept selection, exploration, production through to decommissioning.

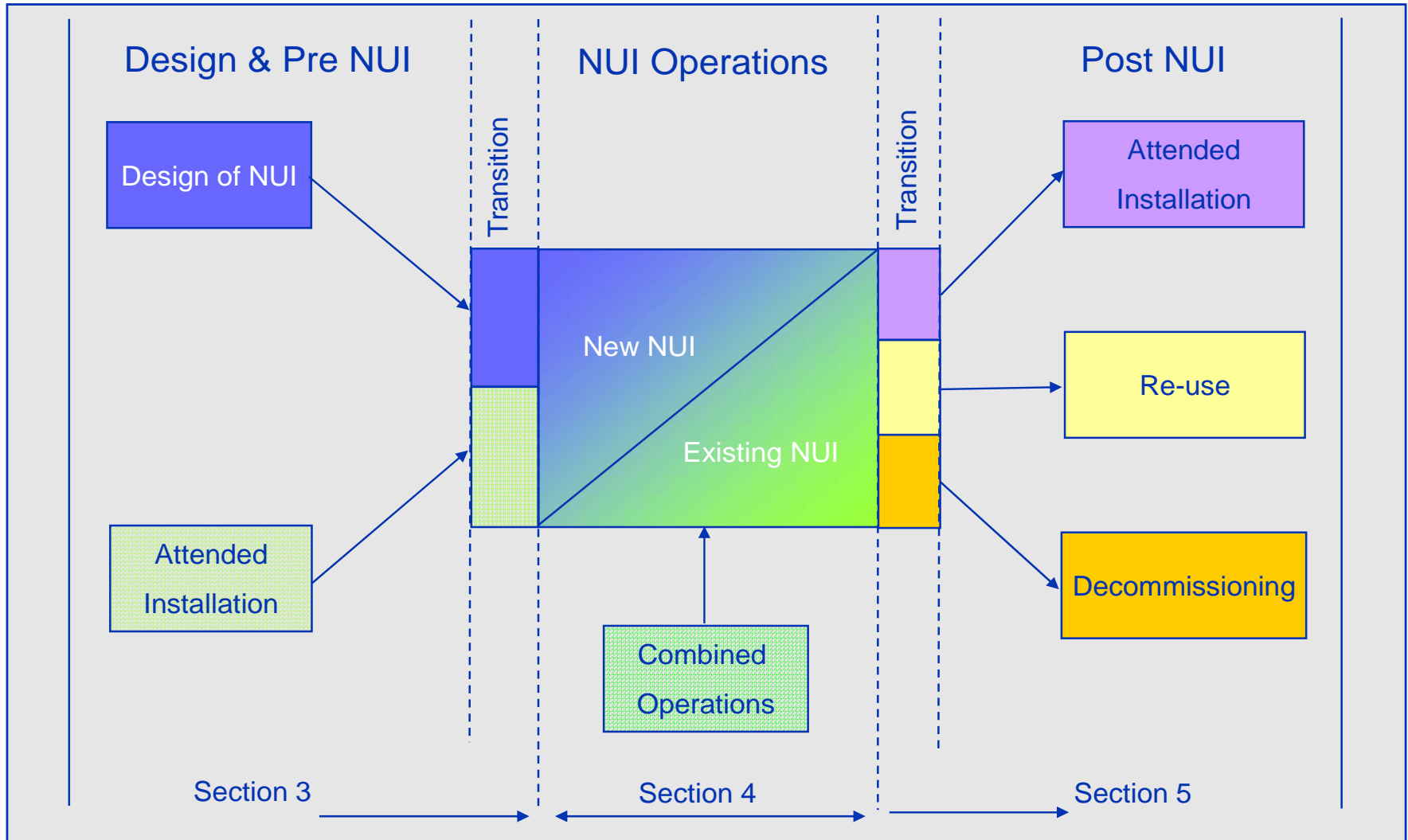
- Guidelines for the Design and Operation of Normally Unattended Installations (NUIs)
 - Seeks to provide best practice guidance on issues of safety, welfare and environment consistent with optimising the benefits of NUIs for the UK and international petroleum industry
- Sponsored by The Energy Institute
- Joint Industry Project
 - Shell, BP, Chevron, Conoco Philips, Talisman, Perenco, Centrica, HSE, Marathon Oil, Total, Venture, PSN, Petrofac, BG-Group, Lloyds, Tyco, Oteac, Bureau Veritas.
- Delivered by end of September 2009
- Much information about attended installation, little specifically for NUIs.

- Provide a framework for designers and operators of NUIs
 - Help designers and operators make decisions
 - To maximise the returns on investment
 - Whilst maintaining safe and environmentally responsible
 - Legally compliant
- Developed for:
 - Fixed location, jacket supported NUIs
 - Located on the UKCS
 - Compliance to UK legislation
- Focuses on areas unique to NUIs, does not cover in detail subjects that are common with attended installations.
- UK focus with examples where required from other areas
- Lifecycle approach
- Emphasis different approaches to the same challenges
- Will use examples – not labelled best practice, but industry practice

- Guidance will contain no mandatory sections and is for information only
- All stages of the NUI lifecycle are covered, therefore should be relevant to all NUIs currently operating in the UKCS
- Guidelines should be used by
 - Designers of new installations or those being transformed to NUI status
 - Operators of existing NUIs
 - Personnel planning combined operations
 - Those involved with transition from NUI status to
 - Attended status
 - Re-use
 - Decommissioned status

- Document will follow the requirements of “Development and Content of Technical Publications issued by the Energy Institute – March 2008”

Structure of Guidance



Guidelines for Design & Operation of NUI Facilities

Foreword (by EI)

1 Introduction

- 1.1 Introduction
- 1.2 Scope
- 1.3 Application

2 Background

- 2.1 Definitions
- 2.2 Relevant UKCS Legislation

3 Design of NUIs and Pre NUIs

- 3.1 New Build Design, Installation and Commissioning
- 3.2 Transition from Normally Attended Installation to NUI

4 NUI Operations

- 4.1 NUI Operations
- 4.2 Combined Operations

5 Post NUI

- 5.1 Transition from NUI to Normally Attended Installation
- 5.2 Transition to re-use
- 5.3 Decommissioning

- DNV are in the process of undertaking face to face meetings with Operators of NUIs to collect relevant documentation and discuss NUI design and operations.
- Meeting with HSE to improve understanding on future policy on the balance between increasing manning levels/occupancy to address integrity issues and welfare – ON 62.
- Meeting with OIAC Helicopter Liaison Group (Organised 18th June in London) – bus-stopping & fire fighting capabilities.
- Meeting with selected Marine Operators e.g. SBV/supply operators
- Meeting with design houses – NUI concepts /design – need contacts
- Undertake meetings in June and early July

- Collect copies of or examine NUI:
 - Design Guidance
 - Safety Cases and QRAs
 - PFEER Demonstrations
 - Performance Standards
 - Adverse Weather Policy
 - Emergency Response Strategy and ERPs
 - Examples of NAI to NUI and vice versa
 - Examples of decommissioning and re-use

- Understand NUI:
 - Manning philosophies - Campaign teams/Intervention/Well ops etc
 - EER strategy & LSA philosophy – ladders vs decent devices
 - Maintenance and inspection strategies
 - Travel methods – Vessel/helicopter, bus stopping vs hub & spoke etc
 - Helideck operations – fire fighting arrangements
 - Approach to Combined Operations
 - Power/Utilities/Chemical usage
 - Logistics

Forward Plan

Activity	Month Week	April					May				June				July				August				September					
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Award of contract		■																										
Literature search & review of findings				■	■	■	■	■	■	■	■	■																
Meetings with NUI Operators									■	■	■	■	■	■														
Soliciting third party input									■	■	■	■	■															
Feedback to EI on initial findings																												
Introduction & Contents / Approach				■	■	■	■	■	■																			
Produce draft Introduction section (Rev 0)									■																			
Design of NUI and Pre NUI facilities																												
Produce draft Design and Pre NUI section																												
Operations of NUIs inc Combined Ops																												
Produce draft Operations section																												
Post NUI																												
Produce draft Post NUI section																												
Review /comment period																												
Produce final version of the Guidance																												

Research and formulating best industry practice	■
Drafting Document	■
Review period	■
Milestone	M



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