

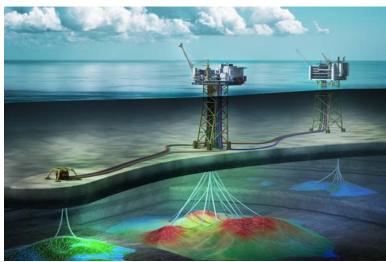
Human Factors in design

Human Factors in design in the Ivar Aasen development project

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Agenda About the Ivar Aasen development project Where and when is HF involved? Organization Lessons Learned

Ivar Aasen development project



Link to Ivar Aasen presentation film

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Human Factors involvement

- HF in FEED engineering
- HF in Detailed Engineering
- HF in construction follow-up and commissioning

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Where is HF involved

- Control Suite design on- and offshore
- HTCC
- HMI Design
 - HMI philosophy and specifications
- Alarm management
- Wayfinding, emergency lightning and signs
- Local control panels
- Working environment reviews

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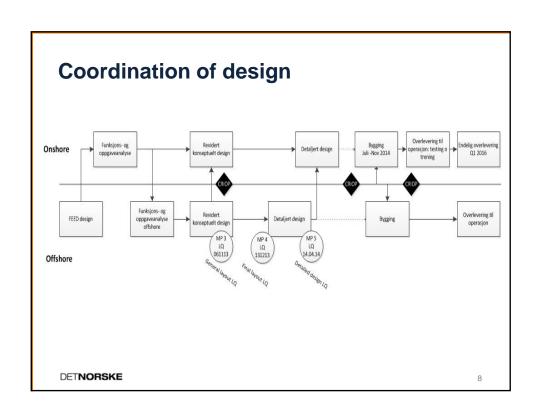
HF in the engineering organization

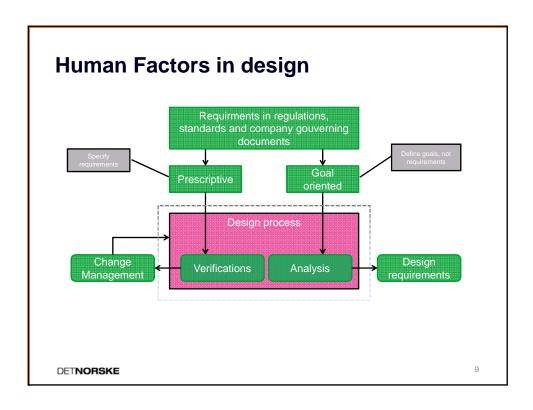
	Det norske	SMOE	Aker
FEED	1 (20 %)		1
Detailed design	1 (Shared on- and offshore)	1,5	

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Fase		Time	Duration	DG
Fase A	Clearifications	Sept 12 - May 13		DG1
Fase B	Function- and task analysis and conceptual design	June 13 - Dec 13	6-9 months	DG2
Fase C	Detailed design	Jan 14 - May 14	4-6 months	DG3
Fase D	Construction and temporary handover	Juni 14 - Dec 14	6-7 months	
Fase E	Operational testing and feedback -Training process technicians in simulator - Commisioning	Jan 15 - Aug 16	22 months	DG4
Fase F	Final handover to Operation	Aug 16 – Oct 16	2-3 months	





Success factors control centre design

- Early establishment of integrated control suite design team
- Control Suite Design Coordinator
- Some personell needs to be common for the on- and offshore suites when designing for shared control
- Allign project plan and the timeline for development of gouverning documentation
- Defined ownership for HF scope in contracts

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