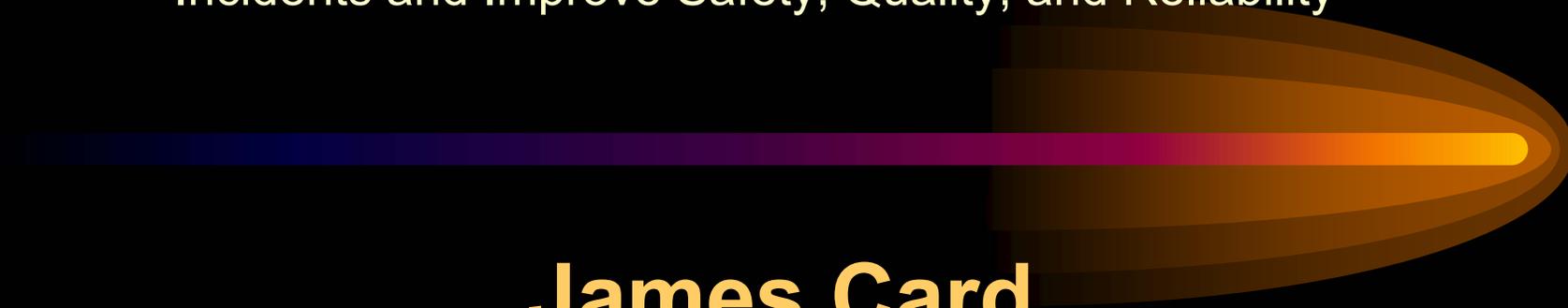


2nd International Workshop on Human Factors in Offshore Operations.

Demystifying Human Factors - Practical Solutions to Reduce
Incidents and Improve Safety, Quality, and Reliability



James Card

**Senior Vice President, American Bureau of
Shipping**

**Integration of Human Factors into
Classification / Certification**

1996 Conference

- Nearly six years since the first workshop in 1996
- PTP was getting underway
- Four pillars of Maritime Safety:
 - Management
 - Work Environment
 - Behavior
 - Technology Application

ABS, Classification Societies

- ABS founded in 1862
- Mission has been to promoting the security of life, property, and the natural environment



Human Error and Accidents

- 80% of marine casualties and accidents (IMO, USCG)
- 90% of ship collisions (NTSB)
- 85% of ship accidents (Navy Safety Center)
- 66% of marine oil spills (UK)
- 62% of hazardous materials spills (OTA)
- 75% of merchant ship accidents (Republic of Germany)

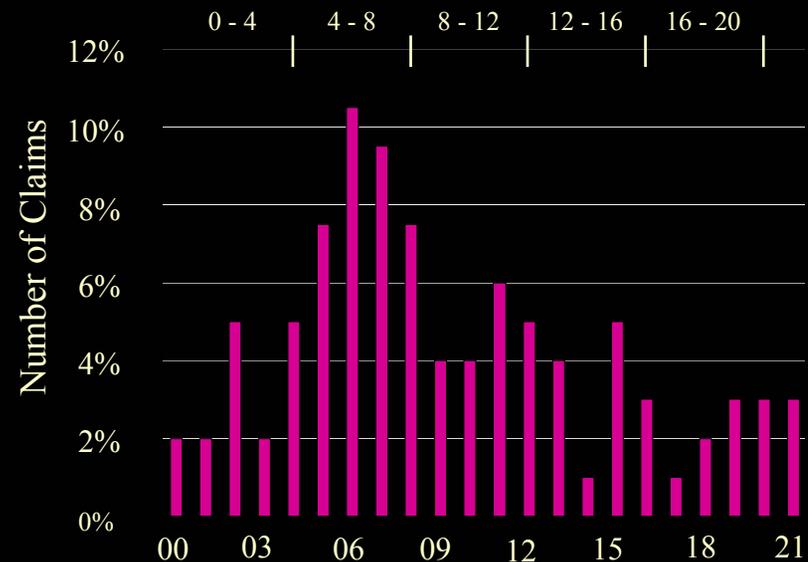
Human Factors Issues in Classification / Certification

ABS has organized its approach around into four human factors areas



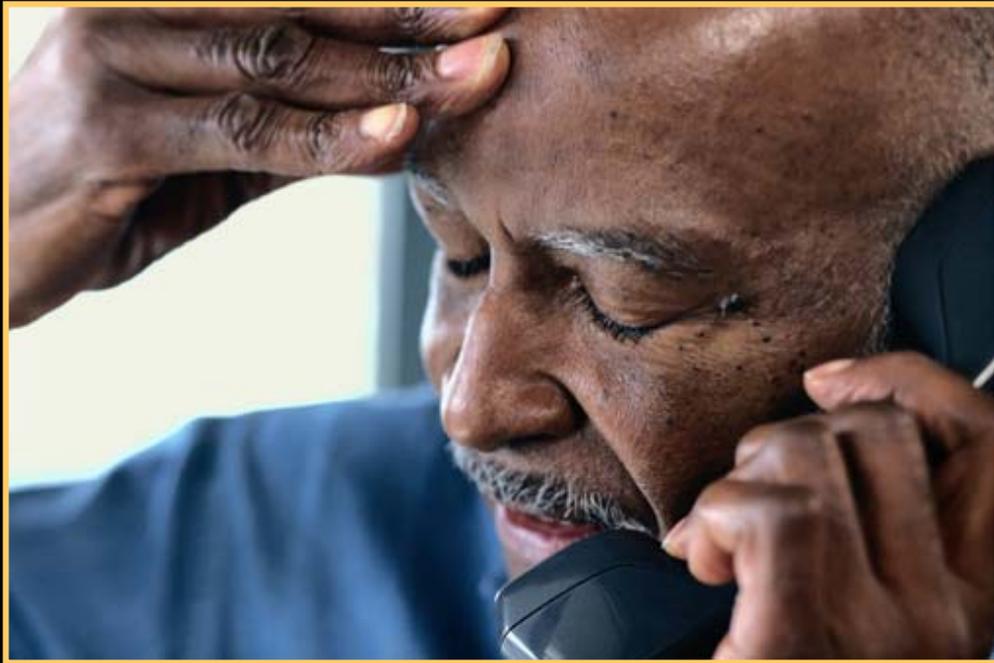
ABS - Management and Organizational Issues

- Reviewing Accident and Near Miss Data Bases
- Develop a scheme for root cause analysis which includes human factors related causes



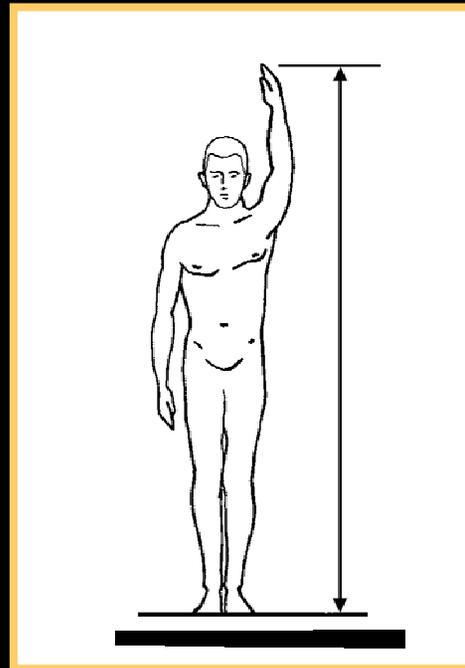
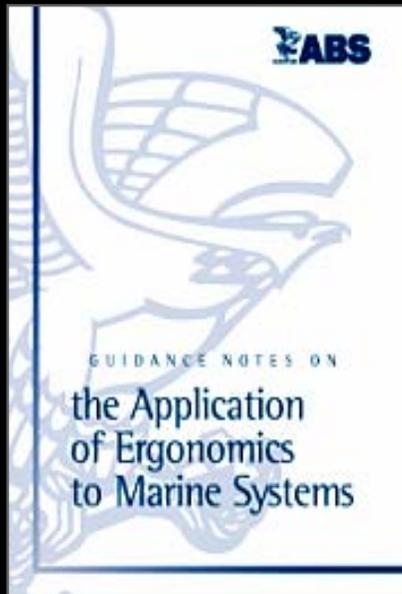
ABS - Management and Organizational Issues

- Installation-to-Marine Vessels, Installation-to-Helicopters, Installation-to-Beach and Internal Installation Communications Guide



ABS – *Installation Design and Layout*

Guidance Notes on the Application of Ergonomics to Marine Systems



ABS – *Installation Design and Layout*

ABS Guide to Crew Habitability on Offshore Installations



ABS – *Installation Design and Layout*

ABS Guidance Notes for Human-Computer Interfaces



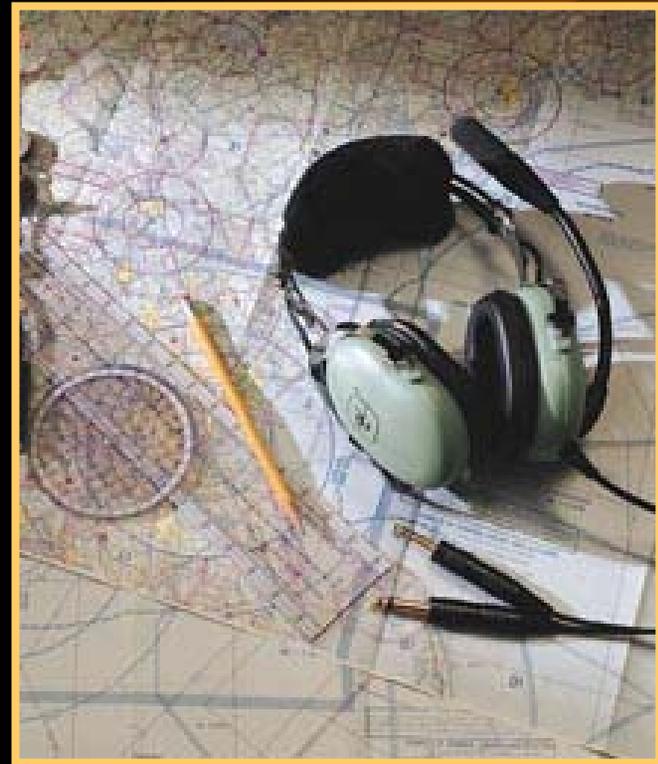
ABS – *Ambient Environment*

ABS Guide for Crew Habitability on Offshore Installations



ABS – *People Issues*

- Development of Personnel Verification Tools
 - Qualifications
 - Personnel Selection
 - Training
 - Crew Endurance
 - Risk Tolerance



ABS – *People Issues*

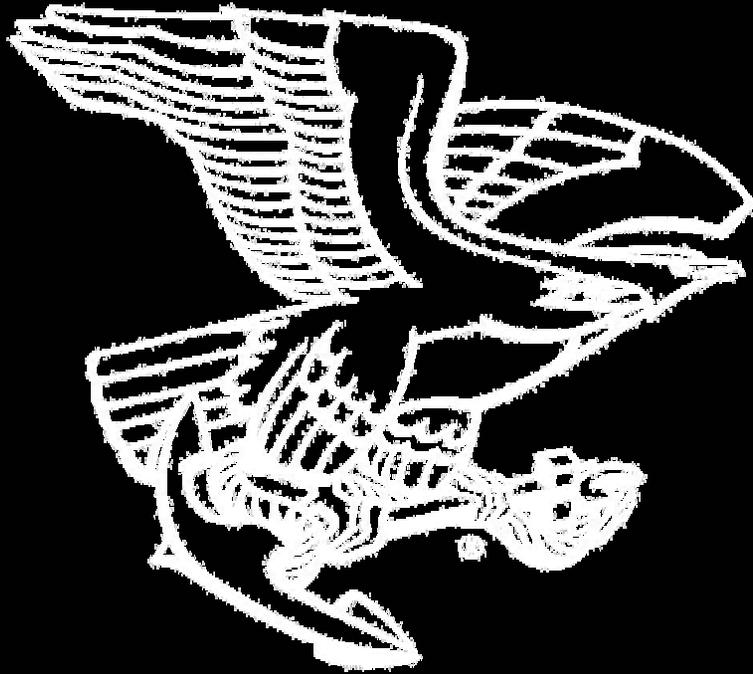
- Workload and Situation Awareness Assessment



Different Models – Same Message



Questions?



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