

Marie M. Green. Human Factors Specialist

Human Centred Design

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Key Work Areas

Human Factors and Usability Consultancy in a range of industries to ensure systematic user-centred design of technical and organisational systems to enhance Human Performance. Human Factors work experience includes:

- control centre design;
- Human Machine Interface design;
- alarm management;
- development and presentation of HF training courses;
- accident investigation and design of data collection systems; and
- systematic training and procedure development.

Professional experience

2002 to 2016. Human Factors Specialist, Human Centred Design

- HF Lead for CRIOP Analysis. Lundin.
- HF Lead for Edvard Grieg EPCH. Aker Solutions/Lundin.
- HF Concept Studies for Johan Sverdrup Field Complex. Aker Solutions/Statoil.
- HF Concept Studies for Johan Castberg. Aker Solutions/Statoil.
- HF Lead for Control Suite Design, Gudrun EPCH. Aibel/Statoil.
- HF Lead for Control Suite Design, Midgard FEED. Aker Solutions/Statoil.
- Integrated Operation Framework and Requirements for Onshore Operations Centres. Aker Solutions/Conoco Phillips.
- HF Lead for Control Suite Design, Valemon FEED. Aibel/Statoil.
- HF input to Alarm System Design Ekofisk & Eldfisk Fields. Aker Solutions/Conoco Phillips.
- Human Machine Interface Guidelines for Process Control Systems. Aker Solutions/Conoco Phillips.
- HF Lead for Control Suite Design, Gudrun FEED. Aibel/Statoil.
- HF Concept Studies for Gudrun & Midgard Installations. Aker Solutions/Statoil.
- HF Lead for Control Suite Design & Integrated Operations Requirements for Goliat FEED. Aker Solutions/EniNorge.
- HF Support for Control Suite Design, Eldfisk B and Ekofisk S. Aker Solutions/Conoco Phillips.
- HF Advisor for Integrated Operations Tilsyn, Valhall. Ptil.
- HF Support for Control Suite Design, Gjøa FEED. Aker Solutions/Gaz de France.
- Development of Alarm Management Strategy and Work Processes for Ormen Lange. Norske Shell.
- Information Architecture & Usability for accountancy website. Infotjenester.
- CRIOP Analysis & Interface Evaluations for Skarv FPSO. Aker Kvaerner/BP.

- Development and presentation of HF training course for S.E. Asian Oil Companies and Regulators. Petrad.
- Development of in-house HF training course and materials. Ptil.
- HF FEED phase study for EKOL/J CCR and LER. Aker Kvaerner/Conoco Phillips.
- Risk Assessment Workshops for Air Traffic Control Operations. Acona/Avinor.
- Development of operational strategies and Integration Operations Decision Support Tool for early sub-sea leak detection for Ormen Lange. Norske Shell.
- Development of work processes for Integrated Operation and Surveillance for the Ormen Lange sub-sea MEG system. Norske Shell.
- Development of Company guidelines and templates for HF methods for CCR Design. Statoil.
- HF support for the detailed engineering phase of the Kristin Project. Aker Kværner.
- HF Lead for the Snøhvit CCR. HF work for compliance with Norwegian Regulations and ISO 11064. Linde Engineering. Munich, Germany.

Jan 2001 – Dec 2001 Framfab, Halden, Norway. Information Architect /Usability Specialist.

User requirements analysis, functional analysis and specification, information architecture, interface design and user-testing.

- Development of software systems and user interfaces for opticians. Essilor, Norway.
- Development of numerous website interfaces, including usability evaluations and product user-testing.
- Task-based user manuals and training materials for new software systems. Observer Media

Oct 2000 – Jan 2001 Human Factors Solutions.

Oslo, Norway

Human Factors Consultant.

- HF Analyses for Kristin and Grane CCRs. AkerKværner.
- HF input into philosophy and conceptual specification for alarm systems. AkerKværner.

1997- 2000 Institutt for Energiteknikk.

Halden, Norway

Human Factors Specialist.

- Method to evaluate HF activities in control centre design including: HF project organisation and management; Functional Analysis and Allocation; Task and Organisational Analysis; conceptual and detailed design specifications for layout, human-machine interface, work organisation, training and procedures; and collection of operational and user experience for use in future projects. Ptil.
- Numerous control room and interface development projects including Valhall, BP/Amoco. Swedish Nuclear Inspectorate; LKAB Mining Company, Sweden; Norwegian Civil Aviation Authority.
- HF Advisor to Ptil on several Control Suite and HMI Inspections.

- Effects of remote operation on the operators and organisation for offshore control rooms. Næringslivets Hovedorganisasjon.
- Effects of teamwork on performance in process industries. OECD
- HF Lead: Development of system to identify and classify human and organisational contributory factors in accidents, incidents and non-conformances. Conoco Phillips.
- Systematic training in incident investigation methods. Conoco Phillips.
- Analysis of the role of the train driving systems and driver interface in railway accidents. Swedish Railway Authority.
- Training course on HF in aviation and aircraft maintenance. Norwegian Civil Aviation Authority.

1990 - 96 Freelance Human Factors Consultant. UK

Projects include:

- HF audit tool (HFAST). Exxon Oil Co. Houston, U.S.A.
- Compliance with Display-screen Equipment Regulations. DNV UK
- Handbook and guidelines for technical procedure writing for the process industry. Allied Colloids Ltd. Bradford, U.K.
- QRA and study of passenger behaviour and accidents. London Underground Ltd,
- Improving information flow in British Government systems for collecting data on fatal accidents. Department of Trade and Industry/Home Office. U.K.

1987- 1992 Lecturer (Part-Time) Psychology. Blackpool & The Fylde College.

1977-81 Scientific Officer. British Nuclear Fuels. Preston. U.K.

Process chemist involved in the sampling and analysis of chemical plant intermediates and products.

Main Qualifications

1983-86. BSc (Hons) Psychology/Physiology. University of Central Lancashire.

1978-80. HNC Chemistry. University of Central Lancashire.

1987-88. Teaching Certificate for Further and Adult Education. Blackpool and Fylde College.

Languages

- Native English
- Working Norwegian

Other

Member of the Human Factors and Ergonomics Society. US.

Organising Committee Member of Human Factors in Control. Norway.

External MSc Moderator. NTNU.