



Bert Simmons

HUMAN FACTORS ENGINEER AND OPERATIONS SPECIALIST

CAREER SUMMARY

Worked Oil and Gas for 45 years as an Operator, Panel Operator, Shift Supervisor, Turnaround Coordinator, Project Operations Support, HFE Coordinator, HFE Lead Upstream Americas and HFE Specialist. Experience includes HAZOP Leadership, SIL, HAZID, 3DModel, Constructability Reviews, Bow Tie Support, Control Room Design, HMI and Situational Awareness for DCS and Control Rooms, Human Factors delivery to Projects, EPC, and HFE in Field Training. Skilled in HFE Screening of Projects, HFE Training delivery, HFE Strategy Development, Shell HFE DEPS, HFE field delivery through Surveillance inside Shell Flawless Operability and Maintainability. Work as HFE and Operations core team member for multiple PSUA teams. Human Factors Specialist for PDO/Shell in Oman for the RHIP Project FEED Phase.

KEY SKILLS

- **Field and Panel Operations in Process Plants**
- Maintenance Field Execution
- HFE Skilled Level as per Royal Dutch Shell requirements
- **DCS and Control Room Design**
- **HMI development**
- Critical task analysis
- Canadian Codes and Practices for HFE related design
- 3D Model Reviews
- HFE input to Process Plant Design
- HFE Delivery to Projects
- **HFE Training to Projects and field Construction**
- Review of Process Modules for HFE compliance 1st and 2nd generation
- HFE design for High Pressure High Sour Projects
- HAZOP Leader Trained by Shell
- P&ID Review, HAZID, Bow Tie development.
- Core Team Member on 7 PSUA's
- Flawless Delivery
- **Start Up and Commissioning**
- ESP Delivery
- Plant Operations
- Procedure Development

EXPERIENCE

HFE Specialist Independent Contractor - 2012 to current

HFE Specialist RHIP Project Muscat Oman - December 2011 December 2012

Shell Canada — Plant Operations, Projects, HFE Delivery UA, 1984 to October 2011

Operations and Panel, Shift Supervisor, Turnaround Coordinator. Skilled HFE Coordinator to Exp-1, Skilled HFE Authorized Person to Shell Upstream Americas (Calgary)

Gulf OIL (Oakville Ont.) — Plant Operations, 1982 to 1984

Texaco (Edmonton, AB) — Plant Operations, 1975 to 1982

SELECTED PROJECT DELIVERY HIGHLIGHTS

HFE LEAD ON CARMON CREEK PROJECT ALBERTA CANADA □ PROJECT BUDGETS: \$5 BILLION (JULY 2014 TO JUNE 2015)

Delivered Human Factors as the HFE Authorized Person for Shell in Execute Phase for Carmon Creek Project. Supported Operations and Maintenance in Project Reviews and 3D Model Reviews. Office was in New Orleans USA and worked directly with the Plant Design and Piping leads.

Reviewed and approved Control Room Design for Carmon Creek Project as the Human Factors Authorized Person for Shell.

HFE SPECIALIST FOR RHIP HIGH PRESSURE HIGH SOUR GAS PROJECT OMAN WORLEY PARSONS (DEC.2011 TO DEC.2012) □ PROJECT BUDGETS: \$3.5 BILLION

Delivered Human Factors as the HFE Authorized Person in FEED for RHIP. Supported Operations and Maintenance in Project Reviews and 3D Model Reviews.

Wrote the design specifications for RHIP Control Room and building for PDO Oman.

Wrote the design specifications for the DCS to Shell requirements RHIP PDO Oman.

SHELL UPSTREAM AMERICAS (2009 TO DECEMBER 2011) - PROJECT BUDGETS: \$5M TO \$2 BILLION

Working as the HFE Skilled Authorized Person for Shell Canada I delivered HFE to all projects in Canada. Working on multiple ORM projects. Quest, MRM flare, CT mixing, Debottlenecking 1, 2 upstream and downstream, On Shore Gas Projects, Saturn 1, Montenay 3 and 4

Human Factors Lead for the Control Room Design / Building Montenay Gas Project.

While working as the HFE Skilled Authorized Person for Shell Canada I was responsible for delivering Shell HFE Specifications and ensuring compliance with Canadian and Provincial Codes and Practices relating to HFE Design.

While working as the Shell HFE Authorized Person for Canada I work closely with Shell Operation Readiness Organization in Projects to support Design Reviews, HAZOP, Constructability Reviews and 3D Model Reviews.

While working as the HFE Skilled Authorized Person I held Technical Authority for HFE Delivery.

During construction I monitored module construction build, vendor packages and field stick build for compliance of HFE specifications.

As the HFE Authorized Person I delivered and developed HFE Awareness Training for Shell Operations, Shell Projects, EPC personal, Construction Managers and field construction supervision.

While working as the HFE Authorized Person I developed and supported development of new HFE specifications for Shell.

EXPANSION 1 (2004 TO 2009) - PROJECT BUDGET: \$12 BILLION

Worked as the HFE Coordinator, ESP lead, Control Room Design Lead for Exp-1 Scotford Upgrader. During this time I trained as the HFE Authorized Person for Shell Canada under the direction of Shell Americas HFE lead from Houston. (DR. Johan Hendrikse)

Control Room / building Design Lead for Shell Upgrader Expansion using Shell Human Factors design guidelines.

SHIFT SUPERVISOR (2001 TO 2004) - BASE PLANT UPGRADER

Shift supervisor with 35 direct reports, day-to-day operations of the base plant upgrader 150,000 barrels/day.

SELECTED PROJECT DELIVERY HIGHLIGHTS

PLANT START UP OPERATOR, PANEL OPERATOR, OPERATIONS LEAD, SHIFT SUPERVISOR (1975 TO 2004)

UNITS WORKED

TEXACO (Edmonton Alberta) 1975 TO 1982

- Plant Operations Coker Unit and Crude Unit

Gulf Oil (Oakville Ont.) 1982 to 1984

- Plant Operations, Dewax Unit, PDA, PSA, SMR, Lube Oil Hydrotreater

Shell Canada (Edmonton Alberta) 1984 to 2004

- **AROMATICS PLANT OUTSIDE OPERATOR AND PANEL OPERATOR** (Wrote Start Up, EOP and SOP procedures for Aromatics) 1984 to 2001
- Tank Farm and Pipelines (Commissioning procedures and Operation of large Tank farms)
- Cold Box Operation for Hydrogen Purification
- Base Plant Heavy Oil Upgrader Shift Supervisor (2001 to 2004)

SPECIFIC OPERATIONS EXPERTISE

- Procedure Writing;
- **Panel Operation (16 years);**
- Start up and Shutdown procedures;
- Plant Commissioning and Start Up;
- Plant turnaround lead;
- Refinery Supervisor and Team Lead;
- On Scene Fire Commander For Heavy Oil Upgrader, Fire training Texas A&M, Reno Fire Training;

- Operations lead for Projects;
- ESP Lead (Ensure Safe Production).