CURRICULUM VITAE



Rolf Hildre Org.No. 988 828 599 MVA Also registered in Sweden Reg. nr. 302336-4544 URL: www.calco.no

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Name : Rolf Hildre

Date of Birth : 27th April 1959

Nationality : Norwegian

Languages : Norwegian, English, Swedish

Marital Status: Married, three children

Education : 1978 – 1982: Civ. Ing. (M.Sc.)

from KTH – Royal Institute of Technology in Stockholm, Sweden,

Department of Aeronautical Engineering.

Main subject: Structural analysis.

Other Training: Various courses in FEM analysis (mainly ANSYS, some

MSC/NASTRAN), composites, project management.

Key Qualifications:

Extensive experience in FEM analysis and other structural analyses since 1984.

Familiar with design codes for general steel structures, steel buildings, offshore/subsea structures, piping/spools, pressure vessels (nuclear and conventional), and atmospheric tanks. Norsok, DNV codes, ASME, Eurocode, AISC, NS/ISO.

Main competencies: FEM analyses: structural, thermal, static, transient dynamic, modal, linear/nonlinear; design code compliance, dimensioning calculations, nuclear power generation, oil and gas.

Professional Record:

Jan. 2006 - Present: CalCo - Rolf Hildre

Independent contractor

Assignments:

Jan. 10 – Present: Scanscot Technology AB

Lund, Sweden

Consulting company – Structural Analyst

Structural analyses on the Oskarshamn 2 nuclear power plant, undergoing power uprate and life extension. Pressure, thermal and mechanical loads. Thermal transients. Static, transient mechanical and modal analyses. Elastic and elasto-plastic material models. Fatigue

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verification. Shakedown analyses. ASME Class 1 (subsection NB) code checks. Calculation of heat transfer coefficients.

Non-linear ultimate pressure/temperature analyses on steel components in nuclear power plant containment structures (drywell heads, airlocks). Internal and external pressures. Plastic collapse, linear and nonlinear buckling.

Structural verification of internal parts of a nuclear power plant reactor pressure vessel according to ASME design rules. Pressure, thermal and mechanical loads, static and transient.

Structural verification of steel buildings at nuclear power plants according to Eurocode 3. Column buckling, beam bending, lateral torsional buckling of beams. Check of bolted joints and welds.

Structural verification of atmospheric tanks at nuclear power plants according to Eurocode 3. Internal pressure and weather-related loads; shell stability, buckling checks.

Analyst and reviewer.

Mar. 06 – Oct. 09: Westinghouse Electric Sweden AB

Västerås, Sweden

Nuclear services company – Structural Analyst

Dimensioning calculations on nuclear reactor vessel nozzles, piping, internal parts, valves, pumps and heat exchangers in the PULS project. The project covered power uprate, safety improvements and life extension for the Oskarshamn 3 nuclear power plant.

ANSYS FEM analyses, thermal and structural, static and transient, fatigue evaluation. ASME design codes. Analyst and reviewer.

Jan. - Feb. 06: Technip Offshore Norge AS

Bærum, Norway

Subsea, offshore and onshore engineering and construction – Structural Analyst

Seafastening design and calculations for manifolds and 10 m chute for the Fram Øst project onboard the vessel *CSO Deep Pioneer*.

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Oct. 2003 - Dec. 2005: Employee of Nemo Engineering a.s

Lysaker, Norway

Subsea engineering company – Analysis Manager

Projects:

Stress analyses of subsea structures for the oil and gas industry: Steel structures, tools, pipe supports, pipelines, tees and spools. Analyst and reviewer.

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1990 - Oct. 2003: Employee of Jotne EPM Consultants a.s

Oslo, Norway

Consulting company – Analysis Manager

Projects:

Mechanical and thermal FEM analyses (ANSYS) and other mechanical calculations in the fields of offshore/subsea engineering, nuclear power generation and general land based industries. Pressure vessels and tees/wyes. Analyst and reviewer.

ASME/PD5500/TBK/TKN design codes. Offshore/subsea structures, seafastening, railway cars, folding missile wing, space/satellite structures and mechanisms.

Follow-up of design, fabrication and delivery of offshore structures.

Two years as department manager (for 8-10 employees).



1984 – 1990: Employee of Kongsberg Våpenfabrikk a.s

Kongsberg, Norway

Defense company - Project Engineer and Structural Analyst

Projects:

Structural analyses of anti-shipping missiles and launchers. Aerodynamic analyses. Planning and follow-up of environmental and mechanical qualification tests. Follow-up of development of folding wing at US sub-contractor.

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