



CV for Lars Erik Svensson

Senior Principal Consultant



Competence summary

Education:

- Work Operator education, Lars Kagg School for Work Operators, Kalmar, Sweden, 1976
- Followed by a number of educations in techniques, engineering and teaching, see section Additional merits.

Profile:

Lars Erik Svensson (LE) has a wide competence regarding operation and nuclear safety, especially for the BWR-reactors B1, B2, O1, O2, O3 the PWR reactor R2 and also for the safety reports for CLAB, the encapsulation plant for used nuclear fuel and the final high level waste disposal site. LE has worked with operation, operator training and education for B1, B2. Within the nuclear safety area Lars Erik has worked with almost all Swedish commercial nuclear power plants. LE has been involved in large scale modernizing projects in O1, R2, O2 and O3 (ongoing project). The nuclear safety tasks comprises development of preliminary or final safety reports, including identification, interpretation and application of safety requirements, guidelines and standards and safety classification of functions, systems and components. In addition to the work with SAR LE also has been involved in development of technical specifications for B1, B2 and O2. Finally LE has participated in the decommissioning of O1 and O2 defining scope and content for the safety analysis report for service operation, partial dismantling and large scale dismantling and demolition.

General experience:

- Nuclear Technical Safety
- Risk and Safety analysis (deterministic)
- Management including Project management
- Education and training
- Operation
- Safety related documentation
- Nuclear decommissioning

Key qualifications:

- Managing operating licenses for Nuclear Plants
- Identification, interpretation and application of Nuclear Safety requirements, standards and criteria
- Coordination and performance of Deterministic safety analysis
- Development, revision or review of Operating and Safety Instructions (Tech. Spec. and EOP:s)
- Safety advisor, concept evaluator in power up rate, safety upgrade or modernization projects for Nuclear Power Plants (BWR and PWR) and decommissioning of BWR-plants



Career description

2014 - present	SafeN Consulting (bifirma till Gunnar Laursen AB), Malmö, Associated to Lloyd's Register Consulting – Energy AB
2010 - 2013	Lloyd's Register Consulting – Energy AB (former Scandpower AB), Malmö, Senior Principal Consultant
2007 - 2010	Relcon Scandpower AB, Malmö, Manager
1995 - 2007	Relcon AB, Malmö, Senior Consultant
1989 - 1995	Sydskraft Konsult AB, Malmö, Safety Engineer
1984 - 1989	Barsebäck Kraft AB, Löddeköpinge, Operating Staff Instructor
1976 - 1984	Barsebäck Kraft AB, Löddeköpinge, Plant Technician, Turbine Operator and Reactor Operator

Professional experience

Lloyd's Register Consulting – Energy AB

ESS AB	<ul style="list-style-type: none">• Development of Preliminary Safety Analysis Report for the European Spallation Source (ESS). Focus on Legislation, Requirements and Standards.
BKAB	<ul style="list-style-type: none">• Participated in design analysis project. Reviewed the Safety Analysis Report including safety analysis for Barsebäck unit 1/2 and Oskarshamn unit 2 (BWR)• Participated in project concerning improvements of Barsebäck unit 2 plant durability to fire in the electric and I&C systems: Updated SAR and Technical Specification (STF)• Participated in a modernization pre project for Barsebäck unit 1/2 and Oskarshamn unit 2 nuclear power plants: Identified relevant safety requirements and evaluated various modernizing concepts.
OKG AB	<ul style="list-style-type: none">• Participated in the modernization project for Oskarshamn unit 1. Defined safety requirements and evaluated different modernizing concepts.• Participated in the modernization pre project for Barsebäck unit 1/2 and Oskarshamn unit 2, see BKAB above.• Developed and revised safety documentation for the intermediate storage facility for spent nuclear fuel (CLAB) Safety Analysis Report.



Professional experience

- Reviewed system descriptions concerning CLAB project stage II (extended storage volume)
 - Participates in a power up rate and safety upgrade project for Oskarshamn unit 2 as Nuclear Safety Advisor.
 - Participated in a project concerning upgrade of SAR for Oskarshamn unit 1.
 - Participated in decommissioning project for Oskarshamn Unit 1 and 2. Ongoing project.
 - Participated in safety upgrade project (post Fukushima safety measures) for Oskarshamn unit 3. Ongoing project.
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- Ringhals AB
- Participated in Ringhals unit 1 (BWR) modernization project. Performed analysis with regard to safety demands and worked with equipment classification
 - Participated in safety analysis regarding malfunction in the reactor level measurement in Ringhals unit 1
 - Participated in modernization project for Ringhals unit 2 (PWR) with regard to:
 - Coordination and accomplishment of analyses concerning safety aspects in a preliminary study of modernization of Ringhals unit 2
 - Coordination and accomplishment of safety related analyses in a project for redesign of the auxiliary feed water system
 - Education/information to Ringhals unit 2 personnel
 - Accomplishment of safety analyses concerning re design of the intermediate cooling circuit, system 711 at Ringhals unit 2
 - Accomplished problem with regard to flow capacity for the auxiliary feed water system at Ringhals unit 3 (PWR)
 - Accomplished safety review of PSAR safety analysis for Ringhals unit 3, power up rate project
- SKB AB
- Developed policy documents, production instructions etc. concerning layout and content in SKB's Safety Analysis Report for its nuclear waste storage and handling plants.
 - Accomplished independent safety review of Preliminary Safety analysis Report (PSR) for SKB's encapsulation plant for spent fuel rods.
 - Developed PSAR documents for SKB's planned ultimate waste disposal site for used nuclear fuel.

Sydskraft Konsult AB



Professional experience

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| BKAB | <ul style="list-style-type: none">• Participated in Barsebäck unit 1 and 2 design analysis project reviewing the safety analysis report (SAR) including the deterministic safety analysis• Participated in the Sydkraft Central Safety Committee as Technical secretary including preparation of current safety issues concerning Barsebäck unit 1 and 2.• Member of the Sydkraft Nuclear Emergency preparedness organization |
| OKG AB | <ul style="list-style-type: none">• Participated in the modernization project for Oskarshamn unit 1 (early phase) |

Barsebäck Kraft AB

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| Barsebäck Kraft AB | <ul style="list-style-type: none">• Plant Technician, Turbine Operator and Reactor Operator at Barsebäck unit 1 and 2• Instructor regarding Nuclear Plant Process knowledge, SAR and STF, directed to shift operating personnel |
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Additional merits

Training:

- Norms and criteria, Sydkraft Konsult AB, 1994
- Nuclear Power Reactor Safety Course, MIT, 1992
- BWR Transient analysis, Forsmark, 1991
- Project Manager Course, Sydkraft Konsult AB, 1990
- Instructor Course I, II, KSU Nyköping, 1987
- Education and Teaching Planning, Statskonsult Utbildning, 1986
- Teacher training, Statskonsult Utbildning, 1985
- Management of Sindac Block computer system, Barsebäck Nuclear Power Plant, 1984
- Control room Engineer Course, BKAB, 1980
- Control room Technician Course, BKAB, 1977
- Plant technician Course, BKAB, 1976
- Work Operator education, Lars Kagg School for Work Operators, Kalmar, Sweden, 1976
- Military Service, F10 Ängelholm, 1973

Membership in organisations:

- Föreningen Kärnteknik



Personal information

Date of birth:	18 May 1952
Nationality:	Swedish
Languages:	Swedish, English