

PERSONAL INFORMATION

Lena Delpech



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POSITION ECRH project leader - WEST tokamak

EXPERTISE Senior RF engineer with over 30 years of experience in fusion energy systems, specializing in RF heating technologies (ECRH & LH). Proven expertise in leading complex, multidisciplinary projects from design to operation, with strong experience in international collaborations and large-scale experimental facilities.

WORK EXPERIENCE

April 2021 – Present

ECRH project leader - WEST Tokamak

- Led the design, installation, and commissioning of the ECRH system for WEST
- Coordinated multidisciplinary teams across engineering and operations
- Managed full project lifecycle: planning, scheduling, budgeting, and risk
- Oversaw procurement strategy and supplier management
- Delivered end-to-end integration of the ECRH heating system

Jan 2014 – April 2021

Responsible officer - Lower Hybrid heating system (WEST)

- Managed operation and maintenance of LH system (16 klystrons, 2 launchers)
- Improved system reliability and maintainability
- Operated RF systems during experimental campaigns
- Contributed to international collaborations (China, Korea)
- Served as Engineer in Charge during WEST experimental sessions

Jul 2010 – Jan 2014

Responsible engineer – LH System Commissioning (WEST)

- Led commissioning of 16 high-power klystrons (3.7 GHz / 700 kW CW, THALES)
- Delivered LH system at full operational power
- Managed modifications of LH launchers for WEST configuration
- Ensured compliance with safety and environmental standards

Jun 2003 – Jul 2010

Officer in charge of the validation of RF components for LH system for Tore Supra

- Designed and commissioned RF test bed
- Defined technical specifications for RF components
- Validated key components:
 - 19 klystrons (THALES)
 - 700 kW water load prototype (SPINNER)
 - 16 BeO RF windows
 - RF transmission line components

- Jul1996 – Sep 2001 **Technical responsible officer - Hard X ray diagnostic (Tore Supra)**
- Installed, commissioned, and maintained Hard X-ray diagnostics
 - Deployed systems on multiple international fusion devices:
 - TCV (Switzerland)
 - FTU (Italy)
 - RFP (Madison, USA)

EDUCATION AND TRAINING

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- Sep 2001 – Jun 2003 **Master degree in Engineering : Physics**
INSA, Toulouse France
- Sep 1996 – Jun 1996 **Radioprotection technical degree**
INSTN Cadarache, St Paul Les Durance France
- Sep 1992 – Jun 1995 **Physics measurements technical degree**
Paul Sabatier University, Toulouse France

PERSONAL SKILLS

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- Mother tongue(s) French
- Other language(s) English (B2 upper-intermediate level)

ADDITIONAL INFORMATION

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- Publications H-Index=21, more than 120 publications
Source Web Of Science
- Memberships
- Dec 2018– Dec 2025 Member of the Technical Advisory Panel (TAP) of Fusion for Energy
- Dec 2025 – Today Vice chair of the Technical Advisory Panel (TAP) of Fusion for Energy