



IAEA Conference (CN-215) HR Development for Nuclear Power Programmes: Building & Sustaining Capacity

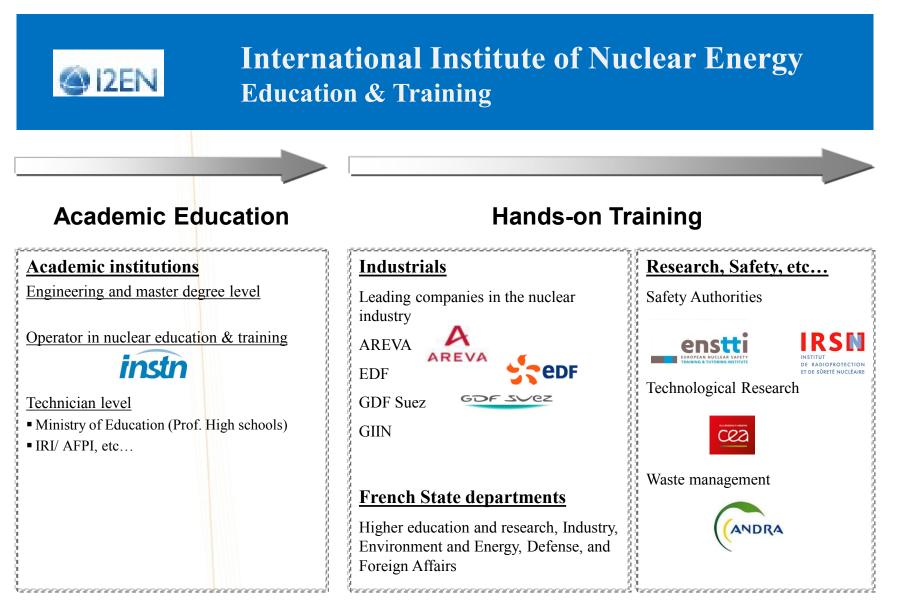
12-16 May 2014

EDF Skills Management for Operations By Christophe Poizat





Global Coordination of E&T Players in France





How is EDF Nuclear Generation Aligning Training with Plant Performance?



EDF Nuclear Generation SAT model







CONTEXT



Middle Life for EDF Nuclear Fleet

Significant Renewal of Staff (~50% in 10 y) Needs for **Performance Improvement** (Equipment, Organisation, Competencies)

Methods for Maintenance & Operation

Competencies Programme (SAT Model)

5 Programmes for 2020 Project

Jobs Meeting Excellence Operational Management & Leadership

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242

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Major

Technical Modifications



Managers are engaged in the management of Competencies

Training Meets **Plant Performance** Expectations

4 Key Elements for Managing Competencies

On-site Training Courses are implemented at each NPP EDF Nuclear Generation SAT Model is Meeting International Standards

• Applying Training Process Standards

2011-2017

 Establishing EDF Nuclear Generation SAT Model Continuing the Journey Towards
Plant Performance
Improvement

Since 1980

2017+





EDF NUCLEAR GENERATION SAT MODEL



Organization & Methods

Training Facilities & Tools

Training Standards

Components for EDF Nuc. Gen. SAT Model

Human Resources

Training Standards

EDF Nuclear Generation Training Strategy & Fundamentals for Managing Competencies

Adaptation of INPO ACAD02-001

- 1 Management of Competencies
- 2 Training Management for Performance Improvement
- 3 Management of Training Processes & Resources
- 4 Initial Training
- 5 Continuing Training
- 6 Training Implementation & Trainee Evaluation
- 7 Training Effectiveness Evaluation

8 – Engagement of NPP's Personnel in Competencies

Organization & Methods

Site & Corporate Training Committees

Joint Training Department



Standardized Initial & Continuing Training Programmes for the entire Fleet

Transfer of Knowledge (~35/y)



Job Academy Common Knowedge

Job Academy Specific KSA*

5 T

General Employee Training Prog.(GET)

Corporate & On-Site Technical Training Prog. (inc. OJT)

62 Training Sessions in 2013 75 Training Sessions in 2013 Continuing Training

> Corporate Retraining Courses

On-Site Training Courses (inc. JIT)

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* Knowledge, Skills & Attitudes

Training Facilities & Tools

Technical Training Workshop

Simulators & Mock-ups

Innovation

Technical Training Workshop at Golfech NPP

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Technical Training Workshop at Golfech NPP



3 Nuclear Fuel Handling Simulators for PWR1,300

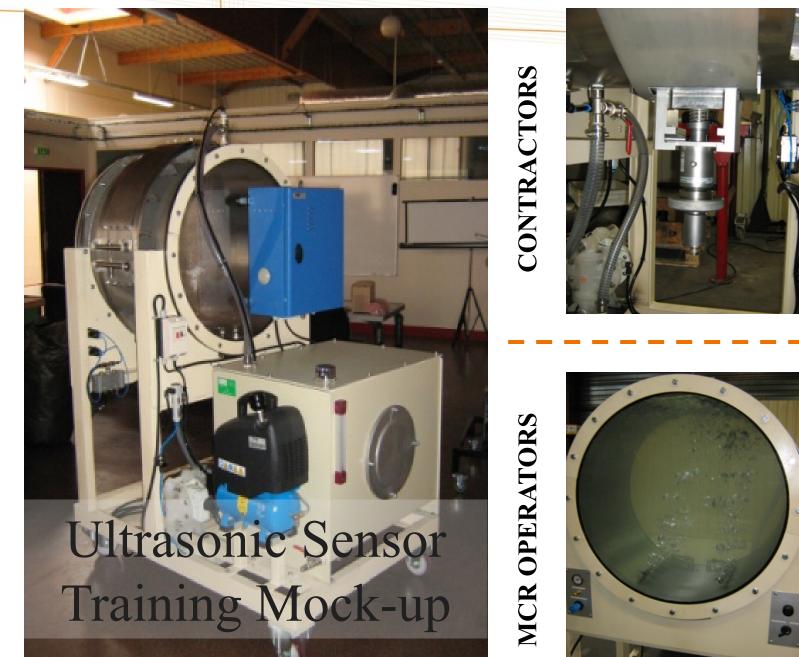




Posts Inside Reactor Building

Posts Inside Nuclear Fuel Buiding













« Making it simple and practical ! »

Industrial Safety Equipment (General Employee Training Programme)



Serious Game Operating the Entrance Door of PWR Reactor Building

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Human Resources

EXPLOITATION

NPPs

Corporate Level

Subject-Matter Experts as Trainers

Part-Time Instructors

Training Specialist

HR Director + Project manager (temporary position)

NPP

Technical Instructors

Trng

Centre

Director for the SAT Model

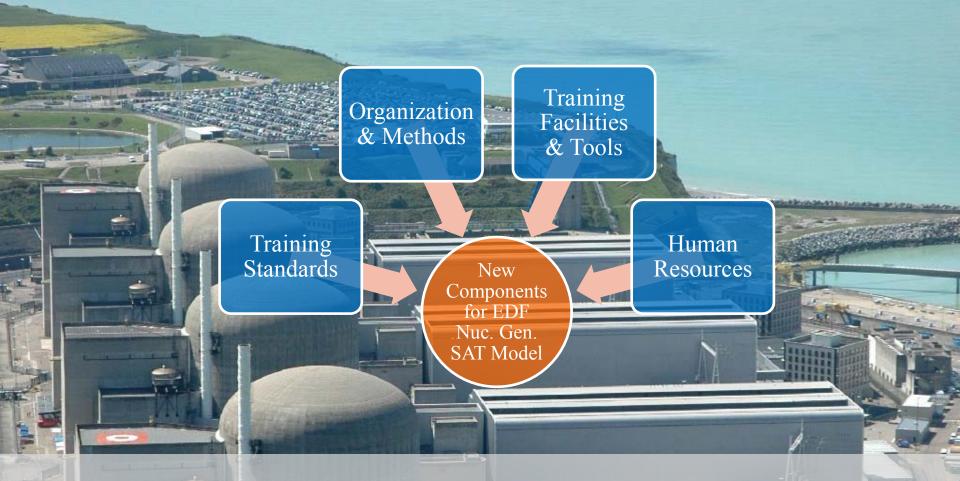
Skills Management Advisors

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Job Leaders as TTM* experts

Nuclear Generation Corporate Level Trng Unit

* TTM : JTA based Task To Training Matrix ** UFPI : EDF Generation & Engineering Training Unit (UFPI) Corporate Training Specialist



EDF Nuclear Generation is Aligning **Training** with **Plant Performance**.

Special French Side-Event

NUCLEAR EDUCATION & TRAINING IN FRANCE & SUPPORT TO NEWCOMER AND EXPANDING COUNTRIES

Wednesday, 14 May 2014from 17:30 to 19:00IAEA VIC, C Building, Board Room C, 4th floor

<u>Programme</u>:

Chair: Ms. Karen Daifuku

Introduction: **H.E. Ms. Marion Paradas**, Permanent Representative of France at IAEA *Featuring:* **Mr. Yves Fanjas,** International Institute of Nuclear Energy

With the participation of French HR Experts:

Academia & Research:	Mr. François Foulon (CEA/INSTN)
Safety:	Mr. Didier Louvat (ENSTTI)
Owner/operator:	Mr. Jean-Luc His (EDF)
Nuclear reactors, fuel, & services:	Mr. Xavier Perrette (AREVA)
Waste agency:	Mr. Patrice Voizard (Andra)

Reception in the foyer, outside Board Room C, 4th floor