



Materials Ageing Institute An international initiative to support long term operation

NRC 2013 Regulatory Information Conference
Washington, Maryland, USA
March 12-14 2013



Dr. J. van der Lee
EDF R&D, France

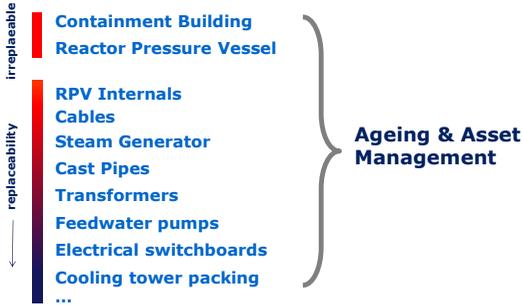


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Key Components for LTO



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What the utility does

Ageing Management

- Inspect
- Mitigate
- Replace

Example: Steam Generator PWSCC



- Inspection of tubes (EC)
- Slow down
- Plug and/or pull tubes
- Replace the SG

- Key questions for the utility:**
- Inspecting which tubes?
 - When do we replace?

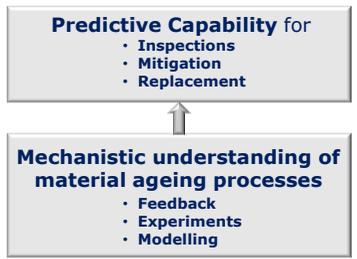


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What the utility ideally needs



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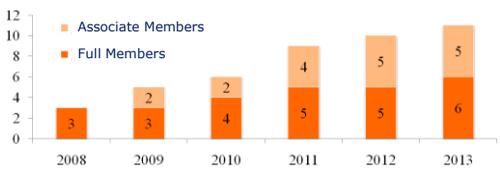
What the utility ideally needs



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MAI Members



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Experimental Capabilities



BOREAL device to study the release of corrosion products in conditions relevant for the primary circuit.



FORTRAND device to study the formation and transport of corrosion products in the secondary circuit.

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MAI in numbers

- 35 MC** total investments by EDF
- 11 MC** annual budget in 2013
- 80** researchers, technicians involved
- 20** universities/institutes associated
- 11** members, representing 66% NPPs
- 250** participants yearly in the E&T program

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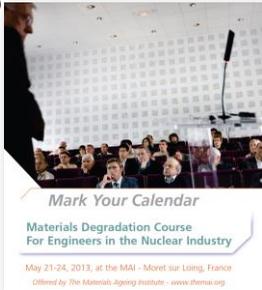
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2013 Workshops & Courses

- **Materials Degradation Course for Engineers in the Nuclear Industry**
MAI (Moret-sur-Loing, France)
May 21 – 24, 2013



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